

الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

THE ACADEMIC RESEARCH CATALOG

2025 ISSUE No. 6

الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري

Arab Academy for Science, Technology & Maritime Transport

The Academic Research Catalogue 2025

ISSUE NO. 6

It is with great pride and a deep sense of responsibility that I present to you the Fifth Edition of the Annual Scientific Research Catalogue of the Arab Academy for Science, Technology and Maritime Transport (AASTMT). This publication reflects our unwavering commitment to advancing scientific research and innovation, a cornerstone of our institutional mission and a key pillar in our strategic vision towards excellence, sustainability, and global competitiveness.

Scientific research lies at the heart of AASTMT's transformative agenda. It drives our ability to contribute meaningfully to knowledge economies, address real-world challenges, and foster regional and international collaboration. As such, this catalogue serves not only as a record of our achievements in 2024, but also as a testament to the Academy's relentless pursuit of impact-driven scholarship and innovation-led development. This edition comes at a time when AASTMT has achieved remarkable progress across several global university rankings. The year 2024 witnessed our strengthened positioning in prestigious benchmarking systems, including the QS World University Rankings, the Times Higher Education (THE) Rankings, and other global evaluative frameworks. These recognitions reflect the growing international visibility and academic credibility of our research community.

Among the highlights featured in this year's catalogue:

- A detailed bibliometric analysis of all AASTMT publications indexed in 2024, categorized by discipline, research area, and impact metrics.
- A spotlight on the top ten most publishing researchers of 2024, whose exceptional scholarly output has significantly contributed to our research profile.
- A comprehensive record of all issues published in 2024 by the AASTMT Publishing Center, showcasing our role in disseminating high-quality, peer-reviewed knowledge.
- An analytical overview of our Scopus-indexed research performance, presenting critical indicators of productivity, collaboration, and citation impact.
- A curated list of national, regional, and European Union (EU)-funded research projects and grants awarded to AASTMT researchers in 2024, highlighting our ability to attract competitive funding and lead multi-stakeholder innovation partnerships.
- A summary of our latest Sustainability Report, underlining our commitment to the United Nations Sustainable Development Goals (SDGs) and the integration of sustainability in our research endeavors.

This catalogue is more than a repository of data—it is a reflection of the culture of research excellence that AASTMT continues to nurture. It stands as a valuable resource for our academic community, our partners, and stakeholders in Egypt, the Arab region, and beyond. It showcases the breadth and depth of the scientific inquiries pursued at AASTMT and the real-world relevance of the knowledge generated.

As we continue to advance our research ecosystem, guided by a strategic framework that values interdisciplinarity, innovation, and international cooperation, we remain committed to empowering our scholars, supporting early-career researchers, and aligning our outputs with the national and regional development priorities.

I extend my gratitude to all faculty, researchers, and staff who have contributed to this collective achievement. I also thank my team at the Scientific Research and Innovation Sector for their dedication in compiling, verifying, and organizing the contents of this edition with excellence and precision.
We invite our readers to explore the pages of this catalogue with curiosity and pride, as it encapsulates not just statistics and figures, but the stories of ambition, intellect, and innovation that define the AASTMT research community.

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مركز الأكاديمية للنشر
ACADEMY Publishing Center

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SUMMARY OF AASTMT ACHIEVEMENTS IN INTERNATIONAL RANKINGS – 2025

In 2025, AASTMT advanced its international standing across leading global and regional rankings, with clear strengths in teaching quality, sustainability impact, and discipline-level excellence. In the Times Higher Education (THE) World University Rankings 2025, AASTMT was placed in the 1001+ band (out of 3,118 universities) and ranked 10th in Egypt, achieving #1 nationally in Teaching. In THE Impact Rankings 2025, AASTMT ranked 104th globally (out of 2,318), #1 in Egypt, and 8th in the Arab region, with top SDG results including SDG7: 19th, SDG8: 38th, and SDG4: 35th worldwide. AASTMT also improved in THE Interdisciplinary Science 2026 to 351–400 (from 450–500). In QS Subject Rankings 2025, AASTMT was ranked in Computer Science & Information Systems (651–700), Electrical & Electronic Engineering (451–500), and Petroleum Engineering (51–100)—confirming strong performance in technology and engineering, and .regional leadership in petroleum engineering

AASTMT 2025: Global Recognition, National Leadership

TEACHING EXCELLENCE

#1 in Egypt for Teaching (THE)

- THE World University Rankings 2025: **Teaching rank 518 globally | #1 in Egypt**

SUSTAINABILITY & SDG IMPACT

#1 in Egypt | 104th globally in THE Impact 2025

- **Global:** 104 / 2,318
- **Egypt:** #1 / 51
- **Arab region:** 8 / 350

Top SDGs (global):

- **SDG7 (Clean Energy): 19th**
- **SDG8 (Decent Work): 38th**
- **SDG4 (Quality Education):35th**
- **#1 in Egypt across 9 SDGs**



QS SUBJECT RANKINGS 2025

AASTMT ranked in multiple disciplines (QS 2025)

- **Petroleum Engineering: 51–100** (regional-leading band)
- **Electrical & Electronic Engineering: 451–500**
- **Computer Science & Information Systems: 651–700**

INTERDISCIPLINARY MOMENTUM

Significant leap in interdisciplinary performance

- **THE Interdisciplinary Science Rankings 2026: 351–400**, up from **450–500**

GLOBAL & REGIONAL POSITIONING

Consistent competitiveness across major systems

- **THE WUR 2025: 1001+** (out of 3,118) | **10th in Egypt**
- **QS WUR 2026: 1001–1200**
- **QS Arab 2026: 51st Arab | 4th in Egypt**
- **QS Sustainability 2026: 800–1000 globally** (~400-place improvement) | **10th in Egypt**

US News Global University Rankings 2024

For the first time, AASTMT was included in the prestigious **US News Global University Rankings**, marking a significant milestone in its international recognition.

- **Selected among 27 Egyptian universities for inclusion.**
- This ranking evaluates universities based on academic research, reputation, and international collaboration.

Conclusion

AASTMT's outstanding performance in multiple international rankings in 2024 highlights its continuous growth and commitment to academic excellence, sustainability, and research innovation. These achievements reinforce its position as a leading institution in Egypt, the Arab world, and globally. Moving forward, AASTMT aims to further enhance its international collaborations, research impact, and educational quality to maintain and improve its standing in future rankings.

AASTMT Scopus Researches

Times Higher Education Classification
Used in the THE World University Rankings.

From 2019 to 2025

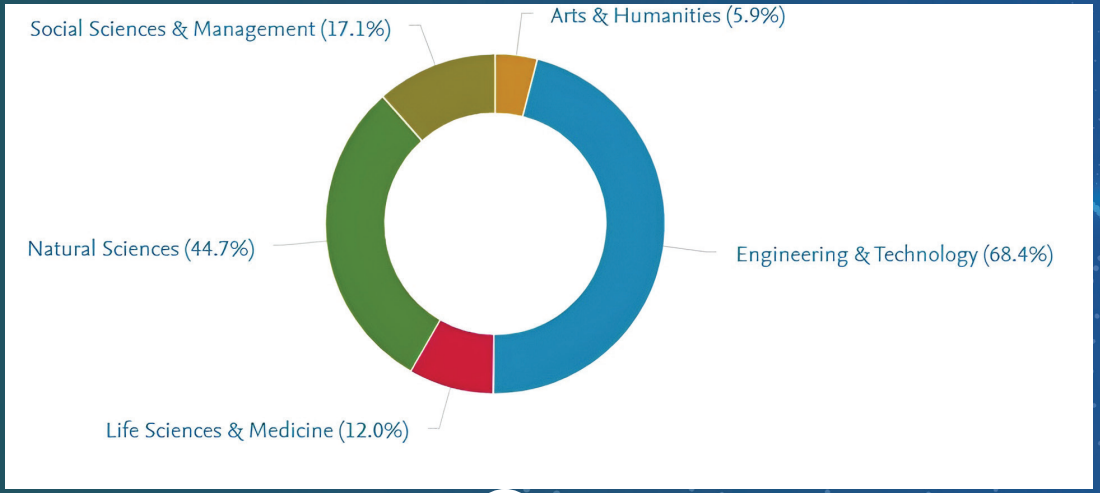
Scopus

Overall Research Performance

Summary metrics

4,711 ▲ Scholarly Output 54.9% All Open Access	2,255 ▲ Authors	1.27 Field-Weighted Citation Impact
51,978 Citation Count	11.0 Citations per Publication	63 *h5*-index

Publications by Subject Area





Webometrics

RANKING WEB OF UNIVERSITIES

AASTMT Webometrics Ranking 2025

World Rank:

- January 2025: 1781/32,000+
- July 2025: 1848 / 33,000+

Egypt Rank:

- January 2025: 15/82
- July 2025: 16/82



AASTMT SUSTAINABLE DEVELOPMENT GOALS (SDGs) REPORT

2023-2024

1. Introduction & Institutional Commitment

The Arab Academy for Science, Technology & Maritime Transport (AASTMT) reaffirms its enduring commitment to the United Nations Sustainable Development Goals (SDGs) through this comprehensive annual report. Over its five-decade history, AASTMT has positioned itself as a regional leader in sustainable education, maritime innovation, and clean energy transition across the Arab and African regions.

Guided by a deep institutional responsibility, the Academy aligns its academic programs, research, operations, and community outreach with global sustainability agendas, emphasizing climate action, quality education, decent work, and responsible consumption. Campuses operate as living laboratories for sustainability, featuring solar energy systems, energy-efficient infrastructure, water recycling, and waste valorization initiatives. These efforts reflect AASTMT's strategic ambition to become carbon-neutral and a hub for green and blue innovation.

Under the leadership of President Prof. **Dr. Ismail Abdel Ghafar Ismail Farag**, AASTMT has established a **Sustainability Council** and a structured reporting framework aligned with international rankings such as the **Times Higher Education (THE) Impact Rankings** and the **QS Sustainability Index**. The Academy's commitment extends across all 17 SDGs, with particular emphasis on quality education, clean energy, industry innovation, and climate action.

2. Governance & Strategic Structure

AASTMT's sustainability initiatives are coordinated through the **Sustainability Council**, chaired by the President. The Council oversees SDG integration across curricula, research projects, and operational processes. Each college designates an **SDG Focal Point** responsible for monitoring progress, data collection, and implementation.

The **Sustainability and Impact Unit** consolidates reporting for international benchmarks, ensuring AASTMT's performance is measured against global standards. This structured approach embeds sustainability in all institutional functions, supported by continuous monitoring, review mechanisms, and stakeholder feedback to promote adaptability and responsiveness to global sustainability challenges.

3. Global Recognition & Institutional Achievements

AASTMT has received international recognition for its commitment to sustainable development, particularly in:

- **SDG 4 – Quality Education**
- **SDG 7 – Affordable and Clean Energy**
- **SDG 9 – Industry, Innovation & Infrastructure**
- **SDG 17 – Partnerships for the Goals**

This recognition underscores the Academy's leadership in innovation, research, and social responsibility, solidifying its role as a model for regional and global sustainability practices.



4. Key Achievements by SDG

SDG 1: **NO POVERTY**

- Launched **28 new spin-off companies** through AASTMT's Entrepreneurship Center.
- Awarded scholarships and financial aid worth **LE 916.3 million** to **10,345 students**.
- Engaged **6,490 individuals** in free community courses.
- Partnered with UNHCR to launch the "**Bridge of Hope**" scholarship program for refugees.



SDG 2: **ZERO HUNGER**

- Introduced plant-based food stations and expanded locally sourced ingredients.
- Converted **550 kg of daily organic waste** into compost and biogas.
- Hosted agribusiness incubators, nutrition workshops, and food donation drives.

SDG 3: **GOOD HEALTH AND WELL-BEING**

- Conducted **10+ medical convoys** in rural Egypt.
- Provided on-campus counseling and mental health awareness campaigns.
- Hosted the **World Youth Modern Pentathlon Championship**.





SDG 4: **QUALITY EDUCATION**

- Offered professional diplomas in AI, Healthcare Quality, Food Safety, and ISO standards.
- Provided free "**Robotak**" robotics labs and STEM workshops for school students.



SDG 5: **GENDER EQUALITY**

- Launched the "**EmpowerHER**" mentorship hub with UNESCO.
- Proposed an on-campus nursery to support working parents.
- Participated in **GENDERCOM 2023** on gender equity.



SDG 6: **CLEAN WATER AND SANITATION**

- Implemented advanced wastewater treatment at Alamein Campus.
- Developed **23 sanitary landfills** across **16 governorates**.
- Participated in EU-funded water efficiency projects (**MAIA-TAQA, PRIMA RESILINK**).



SDG 7: **AFFORDABLE AND CLEAN ENERGY**

- Reduced energy consumption by **4.3%** and carbon emissions by **3%** in 2024.
- Installed **230 kW solar capacity** across campuses.
- Hosted workshops on green hydrogen and smart grids.



SDG 8: **DECENT WORK AND ECONOMIC GROWTH**

- Fair Employment Practices: Enforced pay equity and fair wages above living wage for all staff and outsourced workers.
- Inclusive Pathways: Supported refugee education-to-work transitions (UNHCR) and promoted women in science through events and job fairs.
- Institutional Commitment: Advanced decent work culture through governance reforms and zero-tolerance policies against exploitation.





SDG 9: **INDUSTRY, INNOVATION AND INFRASTRUCTURE**

- Launched **28 startups** in AI, clean energy, and health tech.
- Hosted **International Olympiad in Informatics (IOI)** and **MARLOG 2024**.
- Secured research grants from **USAID**, **National Bank of Egypt**, **GIZ**, and **PLAN International**.

SDG 10: **REDUCED INEQUALITIES**

- Held "**Qaderoon**" celebration for students of determination.
- Offered targeted scholarships for disadvantaged students.
- Conducted symposia on anti-harassment and social inclusion.



SDG 11: **SUSTAINABLE CITIES AND COMMUNITIES**

- Implemented **smart campus initiatives** (energy dashboards, carpooling systems).
- Participated in **TOURITAGE** heritage regeneration project.
- Opened campuses for public events and sports tournaments.



SDG 12: **RESPONSIBLE CONSUMPTION AND PRODUCTION**

- Designed and supervised **23 sanitary landfills** nationally.
- Promoted campus-wide recycling and composting.
- Trained hospitality sector in sustainable waste management.



SDG 13: **CLIMATE ACTION**

- Launched **Climate Action Plan 2024** for carbon neutrality.
- Integrated climate science and disaster risk reduction into curricula.
- Hosted "**Uni-Green**" climate competition and coastal resilience workshops.



SDG 14: **LIFE BELOW WATER**

- Offered EU-funded programs in **Fisheries Technology** and **Sustainable Aquaculture**.
- Partnered with **General Fisheries Commission for the Mediterranean (GFCM)**.
- Conducted workshops on marine plastic waste and sustainable fishing.



SDG 15: **LIFE ON LAND**

- Supervised the **national Integrated Solid Waste Management System**, removing **1.4 million tons of waste** and establishing **18 new sanitary landfills**.
- Co-organized "**Waste Management in Alexandria**" workshops promoting circular economy models.
- Implemented **AASTMT Monitoring IUCN & Conservation Species Policy** to protect campus biodiversity.
- Launched **UniGreen Bootcamp and Innovation Workshops** (EU-funded) for ecosystem protection.
- Signed cooperation protocol with **MAFI for Agricultural Produce Industries** to advance sustainable agriculture.
- Enforced **Water Discharge Guidelines & Standards** and **Hazardous Waste Disposal Policy** to prevent soil contamination.





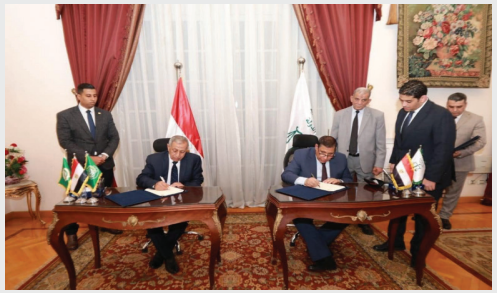
SDG 16: **PEACE, JUSTICE & STRONG INSTITUTIONS**

- Maintained institutional certifications (**ISO 9001, ISO 45001**).
- Held regular **Executive Council** and **Advisory Board meetings** with industry experts.
- Fostered transparency through **President–Student Union meetings** and open election debates.
- Supported refugees via MOUs with Sudanese universities and the "**Bridge of Hope**" initiative with UNHCR.
- Ran **Community Service Programs**, including medical convoys and psychological awareness workshops.
- Signed cooperation protocols with the **Supreme Constitutional Court** and renewed agreements with the **Egyptian Council of State**.
- Hosted a **Model UN Convention against Corruption (COSP)** with the Administrative Control Authority.



SDG 17: **PARTNERSHIPS FOR THE GOALS**

- Collaborated with **UN agencies:** UNESCO (women in science), UNHCR (refugee education), ESCWA (youth empowerment).
- Partnered with **government bodies:** Ministry of Environment (climate center), Ministry of Housing (urban planning), Ministry of Trade & Industry (industrial training).
- Formed **industry alliances:** Brightskies, Spirax Sarco Egypt, Bernhard Schulte Management, MAFI, Nahdet Misr.
- Expanded **academic networks:** University of Genoa, Northern Consortium UK, Al-Asmarya Islamic University.
- Engaged **NGOs & civil society:** Caritas Egypt, Life Makers Foundation, BlackForest Solutions.



5. Strategic Partnerships and Global Engagement

AASTMT has expanded its impact through strategic collaborations with:

- **UN Agencies:** UNESCO, UNHCR, IMO
- **International Universities:** Texas A&M, University of Genova, Freie Universität Berlin
- **Government Bodies:** Egyptian Ministry of Environment, Ministry of Transport, National Council for Women
- **Industry Leaders:** Fortinet, Siemens Energy, Valeo, Schneider Electric
- **NGOs:** Caritas Egypt, Life Makers Foundation, BlackForest Solutions

6. Upcoming Strategic Goals (2024–2025)

- **Carbon Neutrality Roadmap:** Achieve 50% reduction in carbon emissions by 2040.
- **Renewable Energy Expansion:** Increase renewable energy share to 40% of total consumption.
- **Digital Transformation:** Launch AI research labs, smart campus infrastructure, and digital twin projects.
- **Inclusive Education:** Expand accessibility services, gender equity programs, and refugee integration.
- **Research Innovation:** Establish new centers in green hydrogen, sustainable aquaculture, and circular economy.
- **Community Outreach:** Scale up public access programs, free vocational training, and youth innovation competitions.

7. Conclusion

AASTMT's 2023–2024 SDG report reflects a holistic and actionable commitment to sustainable development. Through its integrated governance model, strong industry-academia linkages, and community-focused initiatives, the Academy is not only advancing the SDGs within its campuses but also serving as a regional catalyst for sustainable transformation. With clear metrics, transparent reporting, and ambitious future targets, AASTMT is positioned as a model institution for sustainable higher education in the Arab world and beyond.

Under the Patronage of
PROF. DR. ISMAIL ABDEL GHAFFAR ISMAIL FARAG

Distinguished Participation in the Supreme Council of Universities Promotion Committees

As part of reinforcing the Academy's position as a leading academic institution, fifteen faculty members from the Academy were selected to serve on the Promotion Committees of Egyptian universities affiliated with the Supreme Council of Universities, effective January 27, 2025.

This selection reflects the outstanding academic expertise and research capabilities of the Academy's faculty members, as well as the confidence placed in them by the Supreme Council of Universities and the Egyptian Ministry of Higher Education and Scientific Research.

The achievement represents a culmination of the Academy's continuous efforts to support scientific research and academic excellence, contributing to strengthening its standing at both the regional and international levels and affirming its active role in advancing higher education and research in Egypt.

مشاركة متميزة في لجان الترقيات بالمجلس الأعلى للجامعات

في إطار ترسيخ مكانة الأكاديمية كصرح علمي رائد، تم اختيار خمسة عشر عضوًا من أعضاء هيئة التدريس بالأكاديمية للانضمام إلى عضوية لجان ترقية أعضاء هيئة التدريس بالجامعات المصرية التابعة للمجلس الأعلى للجامعات، وذلك اعتبارًا من ٢٧ يناير ٢٠٢٥.

ويُعد هذا الاختيار تقديرًا لما تتمتع به الأكاديمية من كفاءات علمية وخبرات بحثية متميزة، كما يعكس الثقة التي يوليها المجلس الأعلى للجامعات ووزارة التعليم العالي والبحث العلمي المصرية لقدرات أعضاء هيئة التدريس بها.

ويأتي هذا الإنجاز تتويجًا للجهود المستمرة التي تبذلها الأكاديمية في دعم البحث العلمي وتعزيز التميز الأكاديمي، بما يسهم في ترسيخ مكانتها على المستويين الإقليمي والدولي، ويؤكد دورها الفاعل في تطوير منظومة التعليم العالي والبحث العلمي في مصر.



AASTMT Faculty participation in Supreme Council of Universities Promotion Committees

Faculty Member	Scientific Committee	Campus	College
Prof. Akram Suleiman M. Suleiman Al-Salmi	Water Resources	Alexandria (Main Campus)	College of Engineering & Technology
Prof. Al-Faisal Abdelhamid Mohamed Hassan	Engineering Physics and Mathematics	Alexandria (Main Campus)	College of Engineering & Technology
Prof. Amira Mostafa Helmy Sonbol	Pharmacology & Clinical Pharmacy	Alexandria (Main Campus)	College of Pharmacy
Prof. Ehab Farouk Mohamed Farid Badran	Electronics & Communications Engineering	Alexandria (Main Campus)	College of Engineering & Technology
Prof. Sherine Shafik Ahmed Ali	Architecture & Urban Planning	Alexandria (Main Campus)	College of Engineering & Technology
Prof. Mohamed Abdelazim Shaheen M. El-Gamal	Computer Science & Information Systems	Alexandria (Main Campus)	College of Computing & Information Technology
Prof. Nevine Farouk El-Sayed Selim Khorshid	Business Administration	Alexandria (Main Campus)	College of Commerce
Prof. Wael Abdelatif Ali Mohamed Omar	Electronics & Communications Engineering	Alexandria (Main Campus)	College of Engineering & Technology
Prof. Yasser Ahmed Madany Mohamed	Business Administration	Alexandria (Main Campus)	College of Commerce
Prof. Marwa Tarek Abdelazim Ahmed	Business Administration	Cairo	College of Management & Technology
Prof. Noha Hany Yousry Ali El-Omari	Electrical Power & Machines Engineering	Cairo	College of Engineering & Technology
Prof. Nevine Sobhy Abdelmegid Abdel Maksoud	Accounting & Auditing	Cairo	College of Management & Technology
Prof. Wael Abbas Mahfouz Mohamed	Engineering Physics & Mathematics	Cairo	College of Engineering & Technology
Prof. Moataz Mohamed Ibrahim Hegazy	Manufacturing & Mechanical Design Engineering	Smart Village	College of Engineering & Technology
Prof. Tarek Mahmoud Ali Mahmoud	Dentistry	Al-Alamein	College of Dentistry
Prof. Abeer Mohamed Refky M. Seddeek Soliman	Media Studies	Alexandria (Main Campus)	College of Language & Communication

Senior Researchers at the AASTMT



PROF. **MOUSTAFA HUSSIEN ALY**

Director for Alamein Branch, Electronics and Communications Engineering

486 Research Papers

ACADEMIC QUALIFICATIONS

- B.Sc., Faculty of Engineering, University of Alexandria, Egypt, 1976, Excellent with degree of honor, Ranked 1st.
- M.Sc., Faculty of Engineering, University of Alexandria, Egypt, 1983.
- Ph.D., Faculty of Engineering, University of Alexandria, Egypt, 1987.
- Associate Professor 1992.
- Professor 1997.

CURRENT POSITION

- President Consultant for Alamein Branch, Arab Academy for Science, Technology and Maritime Transport, Alamein, Egypt.
- President Consultant for Training, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt.
- Professor of Optical Communications, Department of Electronics and Communications Engineering, College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt.

PROFESSIONAL EXPERIENCE

- **Faculty of Engineering, University of Alexandria, Egypt, 1976-2004:**

Instructor (14/10/1976-8/2/1982) – Assistant Lecturer (9/2/1982-25/5/1987) – Assistant Professor (26/5/1987-25/5/1992) – Associate Professor (26/5/1992-26/7/1997) – Professor (27/7/1997-30/6/2004).

» On leave to Beirut Arab University, Beirut Lebanon, 1/10/1991-31/8/1993.

» On leave to College of Engineering and Technology, Arab Academy for Science, Technology and Maritime Transport, Alexandria, Egypt, 1/9/1993 – 31/8/1995 and 1/9/1999 – 30/6/2004.

» Part Time in: College of Air Defense 1987-1991, Faculty of Education (Department of Industrial Education), 1987-1989, Alexandria Higher Institute for Engineering 1996-1997.

- **College of Engineering and Technology, Arab Academy, 1/7/2004 till now:**

» Professor (Dept. of Electronics and Communications Engineering)… Prize of Best Professor in College in Mar. 2011.

» Assistant Dean for Education and Research Affairs 1/7/2006 – 30/6/2010.

» Vice Dean for Education Affairs 1/7/2010 – 19/12/2011.

» Dean, College of Engineering, 20/12/2011 – 14/12/2014.

» Head, Engineering Consultations Center, 20/12/2011 – 14/12/2014.

» Vice President, 15/12/2014 – 31/7/2015

» President Consultant for Training Affairs, 1/8/2015 - present.

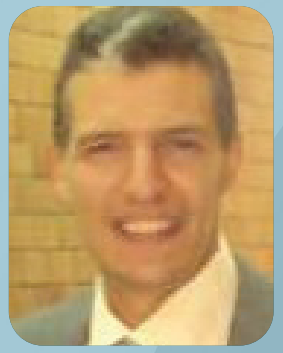
» President Consultant for Alamein Branch, 22/9/2019 - present.

Scopus Preview

3,855	353	31
Citations by **2,993** documents	Documents	*h*-index

Google Scholar

	All	Since 2021
Citations	5187	4216
h-index	35	32
i10-index	153	130



PROF. **MOSTAFA SAAD HAMAD**

Director of Research and Innovation Center

157 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - Faculty of Engineering - Alexandria University - B.Sc. Electrical Engineering, 1999.
- Doctorate - Strathclyde University - UK - PhD Electrical Engineering, 2009.
- Master - Faculty of Engineering - Alexandria University - MSc Electrical Engineering, 2003.

CURRENT POSITION

- Director of Research and Innovation Center.
- Professor, Electrical and Control Engineering Department, College of Engineering and Technology.

BIOGRAPHY

Mostafa S. Hamad obtained the PhD degree in Electrical Engineering from Strathclyde University, UK, in 2009 and the BSc and the MSc degree from Alexandria University, Egypt, in 1999 and 2003, respectively. Currently he is the Director of Research and Innovation Center, Arab Academy for Science, Technology and Maritime Transport (AASTMT), and professor power electronics applications and electric drive systems at Electrical and Control Engineering Department, College of Engineering, AASTMT.

Mostafa is a co-founder of the MSc program in Electrical Smart Grid Engineering, 2019. He is a certified energy manger by the Association of Energy Engineers (AEE) – USA since 2017 and an certified Consultant of New and Renewable Energy Systems since 2019. He was the co-founder and Chairman of the IEEE Power Electronics Society (PELS) – Egypt Chapter, from 2021 to 2024 and the vice-chair of the Confernerce of Power Electronics and Renewable Energy (CPERE), in 2023 and 2025. He participated in several research and educational projects funded by national and international funding agencies. He published more than 60 journal papers and 95 conference papers and one book.

His research interests include electric machines and drives and power electronics applications in power quality, electric vehicles, smart grid, and renewable energy.

PROFESSIONAL EXPERIENCE

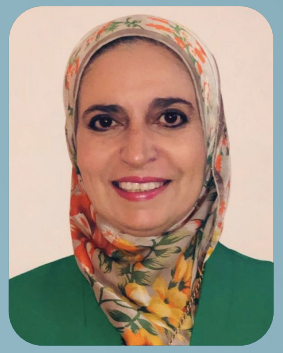
- Teaching undergraduate and postgraduate courses of energy, power electronics, and electric drives.
- Leading national and international research projects.
- Consultant of New and Renewable Energy.
- Certified Energy Manger.
- Vice-chair, IEEE conference on power electronics and renewable energy (CPERE), 2023 & 2025.

Scopus Preview

1,768	134	22
Citations by **1,544** documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	2506	1776
h-index	27	23
i10-index	72	52



PROF. **GHADA HASSAN EL-KOT**

Professor of Human Resources and Organisational behaviour,
Deputy President for Strategic Affairs

153 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - Bachelor of Business Administration, Faculty of Commerce, Alexandria University, Egypt, May 1988. - Egypt.
- Master in Business Administration MSc. (Human resources) Business Administration (HR) - Faculty of Commerce, Alexandria University, Egypt, April 1997, - Egypt.
- Doctorate - Doctor of Philosophy (Ph.D) Human Resources and organisational behaviour - Plymouth Business School, University of Plymouth, UK, 2001 - United Kingdom.

CURRENT POSITION

Professor, Deputy President for Strategic Affairs, Arab Academy for Science, Technology and Maritime Transport.

BIOGRAPHY

Ghada El-Kot is a professor in HR and OB at AAST-MT and Deputy President for Strategic Affairs. She has more than 30 years of experience as an effective international consultant, researcher, trainer, and reviewer in the HR and OB fields. She earned her Ph.D. from The University of Plymouth, UK in 2001 on Teamwork Effectiveness in Egypt and won the best PhD thesis. In 2011 she received an outstanding paper award for her research " Work Engagement among Managers and Professionals in Egypt: Potential Antecedents and Consequences". In 2020, She received a highly recommended Paper Award for her research "Egyptian Women Supervisory Empowerment Behavior on Well-being Outcomes". She is Listed in Who's Who in the World. She won the Exemplary Woman Mentor Award 2020, from the Women Leadership and Excellence Awards (WLEA). She won the Middle East's Women Leadership Award 2020, from World Women Leadership Congress and Awards. She is listed in the AD Scientific Index 2021; 2022 and 2023.

PROFESSIONAL EXPERIENCE

WORK EXPERIENCE

- **2015 - Till Now, Deputy President for Strategic Affairs,** Arab Academy for Science, Technology and Maritime Transport.
- **2014 - 2015, Dean Of Research,** AASTMT.
- **2012 - 2014, Dean of Graduate School of Business,** AASTMT.
- **2009 - 2010, Associate Dean for Post Graduate Studies,** AASTMT.
- **2008 - 2009, Associate Dean for Research,** AASTMT.
- **2004 - 2008, Associate Dean for Education & Research,** AASTMT.
- **2010 - 2013, Visiting professor at Plymouth Business School , UK,** Plymouth Business School, UK.
- **2004 - 2009, Research Fellow at Plymouth Business School, University of Plymouth, UK,** Plymouth Business School.

ACADEMIC EXPERIENCE

- **2009 - Till Now, Professor,** AASTMT.
- **2005 - 2009, Associate Professor,** AASTMT.
- **2001 - 2005, PhD holder, Doctor,** AASTMT.
- **1997 - 2001, Lecturer,** AASTMT.
- **1993 - 1997, Assistant Lecturer,** College of Management and Technology.

Scopus Preview

331	23	10
Citations by **282** documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	1082	354
h-index	14	10
i10-index	18	12



PROF. **SAMIR YOUSEF MOHAMED**

Professor and Head of Department of Basic and Applied Science
Faculty of Engineering

124 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - Menoufia University/ Faculty of Science - Bachelor of Science Physics department, 1990.
- Master - Menoufia University/ Faculty of Science - Master of Science in Solid State Physics Solid State Physics, 1993.
- Doctorate - Menoufia University/ Faculty of Science - Doctor of Philosophy of Science Solid State Physics, 1999.

CURRENT POSITION

Professor and Head department of basic and applied science Basic and applied science department.

BIOGRAPHY

Samir Y. Marzouk received her B.Sc., M.Sc. and PhD degrees from the Physics Department at Menoufia University in 1990, 1993 and 1999 respectively. He is currently a professor of solid state physics at basic and applied science department, faculty of engineering, at Arab Academy for Science, Technology and Maritime Transport. Along his career, he was a technical reviewer and editorial board member for several international journals and conferences. He published over 120 peer-reviewed journal and conference articles in the areas of solid state physics, Nano-materials science, semiconductor materials, amorphous, transparent material and optical laser materials. He has two patents in optical glass materials.

PROFESSIONAL EXPERIENCE

- **2012 - 2014, Professor and head department of basic and applied science,** Basic and applied science department.
- **2011 - 2012, Professor dr,** Basic and applied science.
- **2009 - 2011, Associated Professor,** Basic and applied science.
- **2007 - 2009, Associated Professor at Thin films and electron microscope Department, Physics Division,** Associated Professor at Thin films and electron microscope Department.
- **2004 - 2007, Researcher at Thin films and electron microscope Department,** Physics Division, Thin films and electron microscope.
- **1999 - 2004, Lecturer,** Basic science.

Scopus Preview

2625	112	30
Citations by 1859 documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	4039	2211
h-index	38	27
i10-index	91	80



PROF. **MOHAMED ABD EL-AZEEM**

President Consultant, Prof of Electronics and Communications

116 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - Military Technical College - B.Sc Electrical Engineering, 1985.
- Master - Military Technical College - M.Sc Electrical Engineering, 1993.
- Doctorate - University of Kent at Canterbury, UK - P.hD Electrical Engineering, 1996.

CURRENT POSITION

President Consultant, Prof of Electronics and Communications.

BIOGRAPHY

Prof Dr. **Mohamed Hassan** obtained his M.Sc and B.Sc with distinction from the Military Technical College (MTC), he then enrolled and obtained his PhD from the University of Kent in the UK. Dr Mohamed was promoted to associate professor in 2006, and to full professor in 2013. Dr Mohamed has a long history of academic excellence in research, teaching and administrative roles. He has supervised numerous PhD and MSc dissertations both inside and outside the AASTMT. He was the vice dean of student affairs in the AASTMT Cairo branch for eight years during which he oversaw significant developments in the student activities in college, and was the vice dean for educational affairs in the college of engineering, Cairo Branch, Sheraton overseeing all academic activities in the branch, including, but not limited to, development of new academic programs, oversight of accreditation initiatives both nationally and internationally in addition to the day to day running of the education process in college. He is currently the Dean of College of Engineering South Valley branch.

PROFESSIONAL EXPERIENCE

WORK EXPERIENCE

- **2019 - Till Now, Vice dean for educational affairs,** College of Engineering.
- **2013 - 2019, Vice dean for student affairs,** College of Engineering.

ACADEMIC EXPERIENCE

- **2013 - Till Now, Professor,** Arab Academy for Science, Technology and Maritime Transport.
- **2006 - 2013, Associate Professor,** Arab Academy for Science, Technology and Maritime Transport.
- **1996 - 2006, Associate Professor,** Arab Academy for Science, Technology and Maritime Transport.

Scopus Preview

50	6	3
Citations by **48** documents	Documents	*h*-index

Google Scholar

	All	Since 2021
Citations	467	358
h-index	10	9
i10-index	13	7



PROF. **WAEL ABBAS**

Head Department of Basic and Applied Science, Professor of Applied Mathematics, Arab Academy for Science, Technology & Maritime Transport,

112 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - Helwan University, faculty of Engineering - B.Sc. Automotive and Tractors Engineering, 2001.
- Master - Cairo University - M.Sc faculty of Engineering, 2006.
- Doctorate - Mansoura University - PhD. Faculty of Engineering, 2011.

CURRENT POSITION

Head Department of Basic and Applied Science, Professor of Applied Mathematics, Arab Academy for Science, Technology & Maritime Transport.

BIOGRAPHY

Dr. Wael Abbas is professor of applied mathematics, Basic and Applied Sciences Department, College of Engineering and Technology, AASTMT, Cairo branch. Dr. Abbas was an Assistant professor in the Engineering Physics and Mathematics Department, Faculty of Engineering, Helwan University, Cairo, Egypt form 2011 to 2013. He has Fifteen years of teaching experience for the undergraduate students and Five years for the postgraduate students. His areas of interest include vehicle suspension and dynamics, genetic algorithms, numerical analysis and fluid mechanics, nanofluids flow modelling, transport in porous media, heat and mass transfer, and Magnetohydrodynamics.

PROFESSIONAL EXPERIENCE

- **2021 - Till Now, Professor,** Basic and Applied Science.
- **2017 - 2019, Associated Professor,** Basic and Applied Science.
- **2013 - 2017, Assistant Professor,** Basic and Applied Science.

Scopus Preview

1,409	88	21
Citations by **1,226** documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	2166	1791
h-index	26	25
i10-index	53	44



PROF. **KHALED ALY SHEHATA**

President Consultant, Professor of Electronics and Communications

111 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - BSc Electronics and Communications, Military Technical College, 1981.
- Master of Science, MSc. Electronics and Communications - Cairo University, College of Engineering, 1991.
- Doctorate - Ph.D. Electrical Engineering, VLSI Design, Low-Power, High-Speed Dynamic Logic Families for Complementary Gallium Arsenide (CGaAs) Fabrication Processes, Naval Postgraduate School, California, USA, 1996.

CURRENT POSITION

2015-Now, Dean, College of Engineering and Technology, Arab Academy of Science and Technology.

BIOGRAPHY

- **2015-Now,** Dean, College of Engineering and Technology, AASTMT.
- **2014-2015,** concurrent, Vice Dean for Education, College of Engineering and Technology, AASTMT.
- **2011-2015,** Chairman, Electronics and Communications Department, Engineering College, AASTMT.
- **2010-2011,** Vice Dean for Graduate Studies, Engineering College, AASTMT.
- **2009-2010,** Chairman, Graduate Studieis Department, Engineering College, AASTMT.
- **2009-2010,** (concurrent) Consultant in Ministry of Military Production.
- **2008-2009,** (concurrent) Consultant in Egypt and Middle East, University Program of Cypress Semiconductor Company.
- **2006-now,** Professor, AASTMT.
- **2004-2009,** Assistant Dean for Graduate Studies and Scientific Research, Engineering College, AASTMT.
- **2002-2006,** Associate Professor, AASTMT.
- **2000-2002,** Assistant Professor, AASTMT.
- **1999-2000,** General Manager and director of Arab Organization for Industrialization (AOI) VLSI Design Canter.
- **1997-2007,** (concurrent) Consultant, Egyptian Company for Industrial Support (ECIS). Team Leader for Design and Implementation of the first Egyptian Calculator.
- **1997-1999,** Researcher and Project Manager, Defense System Study Center (DSSC), Egyptian Armed Forces, Cairo, Egypt. Circuit and System Designer using Field Programmable Gate Arrays (FPGAs), Printed Circuit Boards Design and Implementation.
- **1997-1999,** (concurrent) Consultant for the AOI, Electronic Factory, in constructing their Application Specific Integrated Circuits (ASIC) Design Center including: Software, hardware and Infrastructure requirements and engineers ion. This Design Center is running now.
- **1996-1997,** Research Assistant Professor, Under the sponsorship of the United States National Security Agency at the Naval Postgraduate School, Monterey, California, USA.
- **1990-1992,** Researcher, Egyptian Air Force Research Center, Cairo, Egypt. Working on the design and implementation of electronic subsystems in the different Aircraft.
- **1981-1990,** PMEL Precision Measuring Equipment Laboratory, Air Force Central Repair Workshop, Helwan, Cairo.

Scopus Preview

221	60	9
Citations by 218 documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	505	164
h-index	13	6
i10-index	20	3



PROF. **MOHAMED F. ABO SREE**

Associate Professor, IEEE Member

89 Research Papers

ACADEMIC QUALIFICATIONS

- B.Sc.: Arab Academy for Science and Technology, 2005-2009, excellent with honor degree.
- M.Sc.: Master in Engineering Electronics and Communications, Arab Academy for Science and Technology, 2009-2013 excellent with honor degree.
- Ph.D.: Ain shams university, 2016-2019 excellent with honor degree.

CURRENT POSITION

- 2019 - Till Now, Associate Professor, Electronics and Communication Engineering Department, Faculty of Engineering at Arab Academy for Science, Technology and Maritime Transport (AASTMT) ,Cairo Campus.
- IEEE Member.

BIOGRAPHY

Mohamed F. Abo Sree was born in Egypt . He has been a Teaching Assistant in Electronics and Communication Engineering Department – AASTMT Cairo Campus- since September 2009. He received the Bachelor's degree in Electronics & Communications Engineering from Arab Academy University, Egypt, in July 2009. He received his MSc in Electronics & Communications Engineering (Interleave Division Multiple Access in Mobile communications)from Arab Academy University, Egypt, in July 2013. His research interests are Digital signal processing & Mobile Communication, PHD holder from Ain shams university in Microwave and antenna fields in 2019.

PROFESSIONAL EXPERIENCE

- **2019 - Till Now, Associate Professor,** Electronics and Communication Engineering Department, Faculty of Engineering at Arab Academy for Science, Technology and Maritime Transport (AASTMT) ,Cairo Campus.
- **2013 - 2019, Lecturer,** Electronics and Communication Engineering Department, Faculty of Engineering at Arab Academy for Science, Technology and Maritime Transport (AASTMT),Cairo Campus.
- **2009 - 2013, Teaching Assistant** and **Researcher** in the Faculty of Engineering at Arab Academy
- for Science, Technology and Maritime Transport (AASTMT) ,Cairo Campus.

Scopus Preview

132	26	5
Citations by **116** documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	1143	1132
h-index	19	19
i10-index	30	30



PROF. **ROSHDY ABDELRASOL**

Emeritus Professor, Electronics and Communications Engineering

89 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor - B.Sc. Electrical Engineering (Communications) - Alexandria University , 1973.
- Master - M.Sc. Electrical Engineering - Alexandria University, 1976.
- Doctorate - Ph.D. Electrical Engineering - Southern Methodist University (SMU), 1981.

CURRENT POSITION

Professor Emeritus, Electronics and Communications Engineering, Arab Academy for Science, Technology and Maritime Transport.

BIOGRAPHY

Professor Emeritus, Arab Academy for Science, Technology and Maritime Transport (AASTMT), Jul 2013 - Now, Electronics and Communications Engineering Dept., Abu-Qir, Alexandria, EGYPT. Professor, Arab Academy for Science, Technology and Maritime Transport (AASTMT), Jan 2002 - June 2013, Electronics and Communications Engineering Dept., Abu-Qir, Alexandria, Egypt. Associate Professor, Mansoura University, Electronics and Communications Engineering Dept., Sep 1994 - Dec 2001, Mansoura, EGYPT. Assistant Professor, Mansoura University, Electronic Communications Engineering Department, Aug 1982 - Aug 1994, Mansoura, EGYPT. Teaching Assistant, Mansoura University, Electrical Engineering Department, Feb 1974 - Jan 1977, Mansoura, EGYPT.

PROFESSIONAL EXPERIENCE

- **2008 - 2010, Professor,** Electrical Engineering.
- **1994 - 2001, Associate Professor,** Electronics & Communications Engineering.
- **1995 - 1999, Associate Professor,** Electrical Engineering.
- **1994 - 1995, Adjunct Associate Professor,** Electrical Engineering.
- **1983 - 1994, Assistant Professor,** Electronics & Communications Engineering.
- **1985 - 1989, Assistant Professor,** Electrical Engineering.
- **1982 - 1984, Research Assistant Professor,** Center for Postgraduate Studies & Research, Materials Science Dept.
- **1981 - 1982, Assistant Professor,** Electrical Engineering.
- **1976 - 1981, Assistant Lecturer,** Electrical Engineering.
- **1974 - 1976, Teaching Assistant,** Electrical Engineering.

Scopus Preview

17	6	2
Citations by 12 documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	347	166
h-index	10	8
i10-index	11	6



PROF. **RASHA ABD ELAZIZ**

Professor and Head of Business Information Systems Department

87 Research Papers

ACADEMIC QUALIFICATIONS

- Bachelor of Business Administration - Management Information Systems (MIS) - Arab Academy for Science, Technology, and Maritime Transport, 1998.
- Master of Business Administration – Electronic Commerce - Arab Academy for Science, Technology, and Maritime Transport, 2002.
- Doctorate - PhD - Computer Science and Creative Technologies - University of the West of England, Bristol, UK, 2009.

CURRENT POSITION

2018 - Till Now, Professor and Head of Business Information Systems Department, College of Management and Technology.

BIOGRAPHY

Prof. Dr. Rasha Abd El Aziz is Professor and Head of Business Information Systems (BIS) Department at the College of Management and Technology, Arab Academy for Science, Technology, and Maritime Transport (AASTMT), Alexandria, Egypt. She received her PhD from the University of the West of England, Bristol, UK, in 2009. She is a Senior Fellow of Advance HE (SFHEA), a SAP Certified Business Associate, professionally trained in Data Science and Machine Learning through MIT, and served as Visiting Professor of Information Systems at Luleå University of Technology, Sweden. She is a member of the Permanent Scientific Committee for the Promotion of Professors and Associate Professors. Her academic work spans Business Information Systems, Business Intelligence, Information Systems, Enterprise Systems, Data Science, and Artificial Intelligence. She teaches at AASTMT, Alexandria University, and in international dual-degree programmes.

She has supervised many PhDs and Master's theses internationally and serves as an external and internal examiner for postgraduate theses at the German University in Cairo, Alexandria University, and AASTMT. She serves as Principal Investigator in Egypt for several British Council–funded international projects in collaboration with UK universities, including Brunel, Coventry, Nottingham Trent, and Northumbria, and recently secured a British Academy project with leading UK institutions. She has contributed to the development of BIS programmes across AASTMT campuses, the Northampton dual-degree accreditation, and the establishment of MBA and PhD programmes in MIS, Artificial Intelligence, and E-Business Management. She also played a key role in achieving AACSB accreditation.

She is a frequent keynote speaker at international academic events and serves as Special Issue Editor for Studies in Higher Education (Taylor & Francis), editorial board member for several journals, and reviewer for leading academic publishers including Emerald, Elsevier, Taylor & Francis, Springer, and Inderscience.

PROFESSIONAL EXPERIENCE

- **2018 - Till Now,** Professor and Head of BIS Department.
- **2014 - 2018,** Associate Professor and Head of BIS Department.
- **2010 - 2014,** Assistant Professor, BIS Department.
- **2002 - 2010,** Teaching Associate, MIS and E-Commerce Departments.
- **1998 - 2002,** Teaching Assistant, MIS Department.

Scopus Preview

166	33	7
Citations by **154** documents	Documents	h-index

Google Scholar

	All	Since 2021
Citations	836	434
h-index	15	12
i10-index	25	19


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PROF. ISMAIL ABDEL GHAFFAR ISMAIL FARAG,

President of the Arab Academy for Science, Technology and Maritime Transport (AASTMT), a number of distinguished researchers from the Academy have been included in the **STANFORD/ELSEVIER** Top 2% Scientists List, which recognizes the most influential scientists worldwide based on citation impact and research productivity.



The AASTMT researchers featured in this prestigious global ranking include:

- **Prof. Alaa Abdel Bari** (College of Engineering and Technology – Alexandria),
- **Prof. Samir Marzouk** (College of Engineering and Technology – Cairo),
- **Prof. Amany El-Zonkoly** (College of Engineering and Technology – Alexandria),
- **Dr. Khairy El-Sayed** (College of Engineering and Technology – Smart Village).

This achievement reflects the Academy's continuous commitment to promoting high-quality research and highlights the significant contributions of its scholars to the global scientific community.

إدراج باحثين من الأكاديمية ضمن قائمة أفضل ٢٪ من العلماء عالميًا



تحت رعاية الأستاذ الدكتور / إسماعيل عبد الغفار إسماعيل فرج، رئيس الأكاديمية العربية للعلوم والتكنولوجيا والنقل البحري، تم إدراج عدد من أعضاء هيئة التدريس والباحثين بالأكاديمية ضمن قائمة أفضل ٢٪ من العلماء الأكثر تأثيرًا على مستوى العالم الصادرة عن **جامعة ستانفورد** بالتعاون مع دار النشر العلمية **ELSEVIER**.



وقد ضمت القائمة من الأكاديمية كلاً من:

- ⋆ **الأستاذ الدكتور علاء عبد الباري** (كلية الهندسة والتكنولوجيا، الإسكندرية)،
- ⋆ **الأستاذ الدكتور سمير مرزوق** (كلية الهندسة والتكنولوجيا، القاهرة)،
- ⋆ **الأستاذ الدكتور أماني الزنقلي** (كلية الهندسة والتكنولوجيا، الإسكندرية)،
- ⋆ **الدكتور خيري السيد** (كلية الهندسة والتكنولوجيا، القرية الذكية).

ويعكس إدراج هؤلاء الباحثين في هذه القائمة العالمية المرموقة المكانة العلمية المتقدمة التي تحظى بها الأكاديمية، ودورها الفاعل في دعم البحث العلمي والابتكار وتعزيز الإسهامات العلمية على المستويين الإقليمي والدولي.

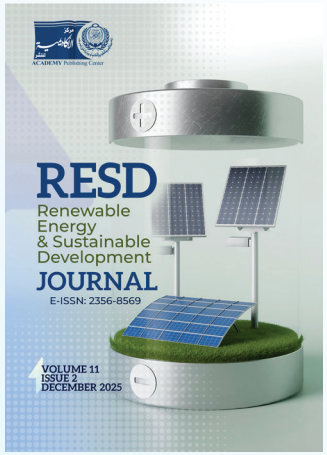
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APC is the publishing center of Arab Academy for Science, Technology, and Maritime Transport (AASTMT), whose main campus is located in Alexandria, Egypt. As of January 2022; APC has six current e-journals in different majors. APC adopting the open access model in all published journals.

http://apc.aast.edu



The Renewable Energy and Sustainable Development (RESD) journal is a biannual publication that showcases cutting-edge research on renewable energy and sustainable development. It covers topics such as solar, wind, hydro, and geothermal energy. As an open-access journal, RESD aims to provide the latest information on renewable energy technologies.

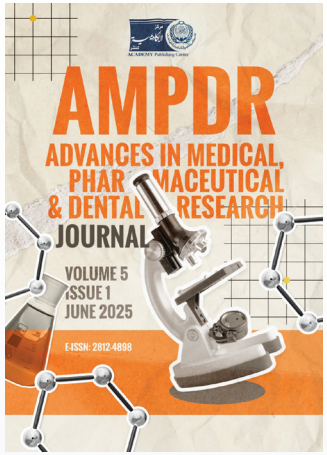


The International Business Logistics (IBL) Journal is a biannual international publication that showcases research on logistics and supply chain management. It covers topics such as supply chain resilience, reverse logistics, and green supply chain. IBL is an open-access journal with no publication or submission fees.

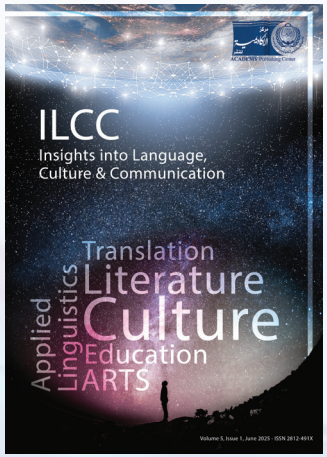


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ACE is an open-access journal with no publication or submission fees. It operates an online submission system with peer review, allowing authors to track their progress online. The journal is financially supported by the Arab Academy for Science, Technology, and Maritime Transport (AASTMT).



The Advanced Medical and Pharmaceutical Drug Research (AMPDR) journal publishes original research papers and review articles in medical, pharmaceutical, and dental research. It covers interdisciplinary topics and is open-access with no publication or submission fees. The journal is financially supported by the Arab Academy for Science, Technology, and Maritime Transport (AASTMT).



The International Journal of Language, Culture, and Communication (ILCC) welcomes submissions from various disciplines, including linguistics, cultural studies, sociology, and more. The journal aims to foster multidisciplinary dialogue and advance language, culture, and media scholarship.

ILCC is an open-access journal with a liberal Creative Commons license, preserving authors› copyrights. Manuscripts are peer-reviewed by international experts. The journal publishes research articles, reviews, case studies, and book reviews, nurturing the research capacity of its scholarly community.



The Maritime Research and Technology (MRT) journal is a biannual international peer-reviewed journal that publishes original research papers on all aspects of the maritime sector and its role in sustainable development.

MRT covers a wide range of topics, including shipping, ports, marine pollution, maritime education, hydrographic sciences, digitalization, and sustainable development. The journal is open-access with a Creative Commons license, preserving authors› copyrights. Manuscripts undergo a blind review process by scientific and linguistic referees.



The Multidisciplinary Adaptive Climate Insights (MACI) journal is a biannual, open-access, international peer-reviewed publication that provides a platform for research on climate change impacts and adaptive measures.

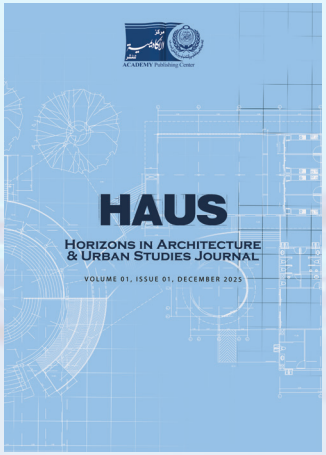
MACI covers various disciplines, including climate adaptation, mitigation strategies, climate trends, and climate economics. The journal emphasizes sustainable development and the integration of climate science into various fields.

MACI is open-access, operating under a Creative Commons license, and is free of charge for authors and readers. The journal is financially supported by the Arab Academy for Science, Technology, and Maritime Transport (AASTMT).



The Robotics: Integration, Manufacturing and Control (RIMC) journal is a biannual, open-access, international peer-reviewed publication that provides a platform for research on robotics integration and manufacturing.

RIMC covers topics such as robotic systems, automation, control algorithms, sensor technologies, human-robot collaboration, and sustainable manufacturing. The journal operates under a Creative Commons license and is free of charge for authors and readers. Financial support is provided by the Arab Academy for Science, Technology, and Maritime Transport (AASTMT).



Horizons in Architecture and Urban Studies (HAUS) Journal is a peer-reviewed journal publishing innovative research in architecture and urbanism. Topics include:

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وزير النقل- جمهورية مصر العربية



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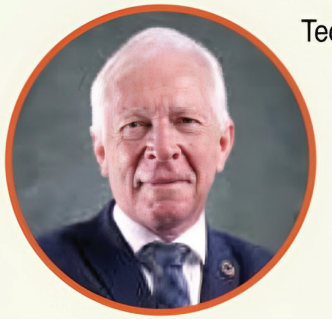
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Minister of Culture



H.E. Prof. Dr. Ismail Abdel Ghafar Ismail Farag
President, Arab Academy for Science,
Technology & Maritime Transport (AASTMT)



Prof. Gina El Feky
Acting President of the Academy of
Scientific Research and Technology (ASRT)
and Supervisor General of
Egyptian Knowledge Bank



H.E. Prof. Dr. Sibrandes Poppema
President and Vice-Chancellor
of Sunway University, Malaysia



Dr. Tarek Saada
Head of the Media Syndicate
of the Arab Republic of Egypt



Prof. Mona Fouad
Dean of College of Engineering
and Technology, AASTMT,
Smart Village Campus



Prof. Yasser El Shamy
Dean of College of Language
and Communication
AASTMT, Smart Village Campus

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For visual and multimedia artworks that use AI, digital imaging, or interactive design to explore human expression

Cultural Innovation & Digital Transformation Awards



Organized by:

For outstanding initiatives or prototypes that integrate cultural identity and digital innovation

Best Applied or Documentary Project in Digital Humanities Awards



Organized by:

For research-based or applied projects reimagining cultural heritage through data, mapping, or AI tools

Best Digital Media Project Awards



Organized by:

For short films, video content, or interactive media projects that creatively communicate cultural narratives

ICCTA 2025

35th International Conference on Computer Theory & Applications

25 - 27 November 2025

ICCTA 2025 Program Highlights

KEYNOTE SPEAKERS



H.E. Prof. Dr. Yousry El Gamal
AI is Reshaping The Future of Medicine and Healthcare



Prof. Dr. Hossam Osman
National Innovation Policy: Transforming to Knowledge Economy



Prof. Dr. Waleed Farag
Creating a Sustainable Ecosystem to Support Cyber Workforce Development: Reflections and Lessons



Prof. Dr. Ahmed Younes
Scaling Quantum Research, Education and Industry in Egypt



Prof. Dr. Hironori Washizaki
Impact of IEEE Computer Society in Advancing Technologies, including LLM/AI & Software Engineering

26th International Arab Conference on Information Technology

16-18 December 2025

ACIT International



ACIT 2025 Program Highlights

Under the Auspices of

H.E. Dr. Ahmed Abouel Gheit

Secretary-General, League of Arab States

KEYNOTE SPEAKERS



Eng. Kamal Kamel

Director of Cyber Security, Cloud & IP Engineering @Orange Egypt

Talk Title: "AI in Cybersecurity- Balancing Innovation and Resilience while Bridging the Cybersecurity Skill Gap"



Eng. Kareem Morsy

VP of Automotive Services @Brightskies

Talk Title: "When Cars Become Computers: How AI, ADAS, and SDV are redefining Automotive R&D"


CLC
COLLEGE OF LANGUAGE
& COMMUNICATION
SMART VILLAGE
Language and Communication Research Lab
1972 - 2022
Years Of Excellence
"Showcase 2025" Symposium
Forensic Linguistics across Legal, Digital and Public Discourses
Bridging Language, Media, Law and Technology
Published in:
A Special Issue in "Language and Semiotic Studies" Journal
"Forensic Linguistics in the Digital Era: Where do We Go from here?

Organized by LCR Lab under the supervision of



Prof. Yasser El-Shamy

Dean of College of Language & Communication (CLC), Smart Village



Assoc. Prof. Nashwa Elyamany

Associate Dean for Graduate Studies & Scientific Research, CLC, Smart Village

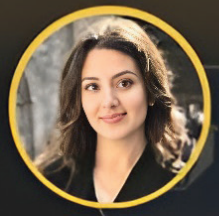
Keynote Speakers



Alison May

Lecturer of Forensic Linguistics, University of Leeds, UK

11:30 AM - 12:00 PM (GMT+3)



Tahmineh Tayebi

Lecturer of Forensic Linguistics, Aston Institute of Forensic Linguistics, Aston University, UK

12:00 PM - 12:30 PM (GMT+3)



David Griffin

Linguist and Lawyer - PhD, JD

Postdoctoral Research Associate, Cardiff University, UK

12:30 PM - 01:00 PM (GMT+3)

zoom

College of Language and Communication (CLC)

3rd International Conference

LANACOM 2025

Intercultural Dialogue and Sustainable Horizons in Media, Language and Literature

https://aast.edu/en/conferences/LANACOM2025/index.html

4th – 5th May, 2025

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Abu Kir Campus
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President of the Arab Academy for Science, Technology and Maritime Transport

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Prof. Alaa Abdel Bary
Vice President for Postgraduate Studies and Scientific Research-AASTMT

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Prof. Abeer Refky
Dean of College of Language and Communication (Alexandria Headquarters)

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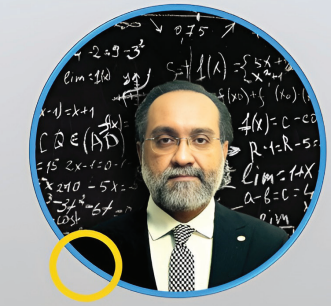
Prof. Inas Hussein
Vice Dean for Postgraduate Studies and Scientific Research
College of Language and Communication (Alexandria Headquarters)

Keynote Speakers



Prof. Shaker Rizk

Professor of Linguistics and Translation Faculty of Arts Suez University



Prof. Khalid Saqr

Visiting Professor at Tohoku University (Japan), a Board Advisor at ScienceWerx (USA) and an Assistant Professor at AASTMT



Assoc. Prof. Dr. Ferah Onat

Yaşar University Faculty of Communication Vice Dean, Public Relations and Advertising Department, Turkey



Dr. Habib Mohammad Ali

Chairperson and Head of the Department of Journalism and Media Communication at Green University of Bangladesh



David Fedele

Independent Documentary Filmmaker, Musician, and Composer, Portugal



Prof. Manuel Sousa Pereira

Polytechnic Institute of Viana do Castelo, Portugal

Keynote Speakers



Prof. Raquel Benitez-Rojas

Associate Dean, Expert in Digital Media and Global Communications University of Niagara Falls, Canada



Prof. Said Shiyab

Professor of Translation Studies and Director of the Arabic MA Translation Program
Kent State University, Ohio, US



Prof. Janina Wildfeuer

Department of Communication and Information Studies
University of Groningen, Netherlands



Prof. Berit Sandberg

Professor of Business Administration at HTW Business School University of Applied Sciences, Berlin



Prof. Samy Tayie

President Consultant for College of Language and Communication AASTMT



Prof. Dina El-Dakhs

Chair of the Linguistics and Translation Department and the Leader of the Language and Communication Research Lab
Prince Sultan University, Saudi Arabia

ACADEMIC PARTNERS

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AASTMT, Alexandria, Egypt



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Prof. Akram Soliman ElSelmy
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International Research Funds of the AASTMT in 2025

EQUALCity – Networking Green and Innovative Development Consultation Labs for Equal, Resilient, Human-Centred Urban Communities

Co-funded by the Erasmus+ Programme of the European Union

EQUALCity

Programme

Erasmus+
Capacity Building in Higher Education (CBHE)

Call: ERASMUS-EDU-2025-CBHE-STRAND-2

Type of Action

Erasmus+ Lump Sum Grant
Capacity Building Action

Duration: 36 months

Total Budget: 799,964.10 Euro

Budget of AASTMT in this Project: 121,445 Euro

Grant Agreement Number: 101236694

Coordinator

- Technical University of Crete (TUC) – Greece

Partners

- Izmir University of Economics (IUE) – Türkiye
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) – Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*
- Nahda University (NUB) – Egypt
- Al-Balqa Applied University (BAU) – Jordan
- Aqaba University of Technology (AUT) – Jordan
- University of Manouba (UMA) – Tunisia
- Carthage University (UCAR) – Tunisia
- Centre de Calcul El Khawarizmi (CCK) – Tunisia

Associated Partners:

- National Housing and Building Research Center (HBRC), Egypt
- New and Renewable Energy Authority (NREA), Egypt
- Aqaba Special Economic Zone Authority (ASEZA), Jordan
- National Cartography and Remote Sensing Center (CNCT), Tunisia
- National Environmental Protection Agency (ANPE), Tunisia

Project Abstract

The EQUALCity project aims to address critical urban challenges in the Southern Mediterranean region, including rapid urbanization, climate change impacts, environmental degradation, and social inequality.

The project strengthens higher education institutions (HEIs) in Egypt, Tunisia, and Jordan by modernizing urban planning curricula, integrating green and digital innovation tools, and establishing specialized consultation and innovation labs.

EQUALCity supports the objectives of the European Green Deal by promoting sustainable, inclusive, and resilient urban development models tailored to Mediterranean contexts.

The project integrates:

- Development and modernization of university curricula in sustainable urban planning.
- Establishment of Consultation Centres and Urban Digital Innovation Labs.
- Capacity-building workshops and Training of Trainers (ToT) sessions.
- Pilot innovation activities embedded within academic courses.
- Multiplier events and stakeholder networking activities.

Specific Objectives

- Modernize and align urban development curricula with EU Green Deal priorities.
- Establish Green and Innovative Development Consultation Labs in partner universities.
- Strengthen academic and institutional capacity in sustainable urban planning.
- Enhance collaboration between universities, public authorities, and urban stakeholders.
- Promote inclusive, resilient, and human-centered urban solutions in the Southern Mediterranean region.

Expected Outputs

- Updated and modernized urban planning curricula in partner universities.
- Operational Consultation and Innovation Labs in Egypt, Tunisia, and Jordan.
- Training programs and capacity-building workshops for academic staff.
- Student-led innovation initiatives and pilot urban projects.
- Dissemination events and stakeholder engagement forums.
- Sustainability and exploitation plans ensuring long-term project impact.

AASTMT's Role

AASTMT (Egypt) plays a central role in:

- Contributing to curriculum modernization and academic content development.
- Supporting the establishment and operation of Consultation and Innovation Labs.
- Leading exploitation and stakeholder networking activities.
- Hosting consortium meetings and capacity-building workshops.
- Contributing to quality assurance, sustainability planning, and dissemination actions.

Through its participation, AASTMT strengthens its position as a regional hub for sustainable urban innovation, green transformation, and international academic cooperation within the Erasmus+ framework.



SOFT – Sustainable & Smart Solutions for Agricultural and Food Training Systems

Co-funded by the Erasmus+ Programme of the European Union

Programme

European Commission
Erasmus+ Programme
Capacity Building in Higher Education (CBHE)

Call: ERASMUS-EDU-2025-CBHE-STRAND-2

Type of Action

Lump Sum Project
Capacity Building Action

Duration: 36 months

Total Budget: 800,000 Euro

Budget of AASTMT in this Project: 121,445 Euro

Grant Agreement Number: 101236985

Coordinator

- Al-Balqa Applied University – Jordan
  - ***Contact:*** *Prof. Dr. Tariq Alazab*

Partners

- Jordan University of Science and Technology (JUST) - Jordan
- University of Teramo (UNITE) - Italy
- Democritus University of Thrace (DUTH) - Greece
- CO&SO – Italy
- Alhalat Group – Jordan
- Additional associated academic and agricultural stakeholders
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) – Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*

Project Abstract

The SOFT project aims to strengthen sustainable agricultural and food systems education through innovative, digital, and quality-assured training frameworks in Jordan and Egypt, in collaboration with European partners.

The project focuses on:

- Developing modernized curricula aligned with labor market needs.
- Establishing quality assurance and monitoring systems.
- Enhancing digital learning environments.
- Strengthening cooperation between universities and agricultural stakeholders.
- Organizing capacity-building workshops and conferences.

SOFT contributes to bridging the gap between higher education institutions and the agricultural/food industry by improving competencies, innovation capacity, and sustainability-oriented skills in partner countries.

Specific Objectives

- Develop a comprehensive Work Plan and Quality Assurance framework.
- Modernize selected curricula in agriculture and food systems.
- Strengthen university–industry collaboration mechanisms.
- Enhance institutional capacity in digital and blended learning.
- Organize training workshops and international conferences.
- Improve governance, monitoring, and internal evaluation procedures.

Expected Outputs

- Approved Work Plan (D1.1).
- Approved Quality Plan (D1.2).
- Updated and modernized training modules.
- Capacity-building workshops for academic staff.
- International Kick-off Conference in Jordan.
- Quality monitoring and evaluation reports.
- Dissemination materials and visual identity package.
- Policy recommendations for sustainable agricultural education.

AASTMT's Role

AASTMT (Egypt) contributes to:

- Curriculum development and modernization activities.
- Participation in quality assurance and monitoring processes.
- Hosting national dissemination activities in Egypt.
- Strengthening cooperation with Egyptian agricultural stakeholders.
- Participation in digital training platform development and testing.

Through its participation, AASTMT enhances Egypt's higher education capacity in sustainable agriculture and food systems while strengthening Euro-Mediterranean academic cooperation.



HELIUM – Helix for Education Leadership and Universal Modernisation

Co-funded by the Erasmus+ Programme of the European Union

HELIUM

Programme

European Commission
Erasmus+ Programme
Capacity Building in Higher Education (CBHE)

Call: ERASMUS-EDU-2025-CBHE-STRAND-1

Type of Action

ERASMUS Lump Sum Grants

Duration: 24 months

Total Budget: 400,000 Euro

Budget of AASTMT in this Project: 36,900 Euro

Grant Agreement Number

101237913

Coordinator

- UC Limburg - Belgium
  - ***Contact:*** Dr. Andy Veltjen

Partners

- Panepistimio Dytikis Makedonias – Greece
- Institoyto Koinonikis Kainotomias Kai Synoxis – Greece
- EDEX - Educational Excellence Corporation Limited – Cyprus
- Saxony Egypt University for Applied Sciences & Technology – Egypt
- Ternopil Ivan Puluj National Technical University - Ukraine
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) – Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*
- Sumy National Agrarian University - Ukraine

Project Abstract

HELIUM is a 24-month Erasmus+ project aiming to modernize higher education institutions by addressing governance, internationalization, digital transformation, and employability challenges. The project promotes structured collaboration between universities and industry through the Triple Helix Model, enhancing innovation and institutional capacity.

The project operates through three main pillars: inclusive human development, digitally supported internationalization, and strengthened university-industry integration to improve skills, entrepreneurship, and labor-market alignment.

HELIUM targets academic and administrative staff, students, women, migrants, and civil society, and follows a structured approach including diagnosis, capacity-building, and institutional implementation. Through its digital ecosystem, the project supports sustainable modernization and cooperation among universities, industry, and policymakers, benefiting nearly 3,000 participants across partner countries.

Specific Objectives

- Enhance governance and quality assurance systems in higher education institutions.
- Promote internationalization and cross-border academic mobility.
- Support inclusive education and equal learning opportunities.
- Develop digital learning ecosystems and modern teaching practices.
- Strengthen university–industry collaboration and employability skills.

Expected Outputs

- Institutional diagnostic and reform framework.
- Digital learning ecosystem platform.
- Capacity-building training programs.
- Industry-academia collaboration activities.
- Policy recommendations for higher education modernization.
- Dissemination materials and awareness activities

AASTMT's Role

The Arab Academy for Science, Technology and Maritime Transport contributes to training activities, stakeholder engagement, and dissemination events in Egypt, supporting governance reform, digital learning implementation, and industry collaboration within the HELIUM framework.



EMTrain – Increasing Emergency Health and Disaster Training Capacity of South Mediterranean Countries

Co-funded by the Erasmus+ Programme of the European Union

Programme

Erasmus+ (Capacity Building in the Field of Vocational Education and Training – CB-VET)

Call: ERASMUS-EDU-2025-CB-VET-SMC

Type of Action

Erasmus Lump Sum Grant (ERASMUS-LS)

Duration: 36 months

Total Budget: €370,477

Budget of AASTMT in this Project: €89,880

Grant Agreement Number

101242580

Coordinator

- Ministry of Health, Antalya Provincial Directorate of Health (Türkiye)
  - ***Contact:*** *Mrs. Işıl Kaleli (R&D Officer)*
  - *isilkaleli11@gmail.com | +90 532 516 4524*

Partners

- Arab Academy for Science, Technology and Maritime Transport (AASTMT), Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com | www.aast.edu*
  - ***Budget:*** *€71,904*
- Centre de Calcul El Khawarizmi (CCK), Tunisia
  - ***Contact:*** *Ms. Ahlem Soussi – Sub-Director*
  - *ahlem.soussi@cck.rnu.tn*
  - ***Budget:*** *€74,729*
- Fundación Pública Andaluza Progreso y Salud (FPS), Spain
  - *Department: IAVANTE – Advanced Medical Simulation Center*
  - ***Contact:*** *Mr. Armando Romanos Rodríguez – Programme Coordinator*
  - *armando.romanos@juntadeandalucia.es*
- Sabratha Higher Institute for Science and Technology (SHIST), Libya
  - ***Contact:*** *Dr. Hamza Muftah*
  - *Head of Sabratha Youth Centre for Vocational Training*
  - *h.muftah@shi.edu.ly*
  - ***Budget:*** *€65,484*

Project Abstract

The EMTrain project aims to strengthen Vocational Education and Training (VET) systems in Emergency Health and Disaster Management across South Mediterranean Countries (SMCs), namely Egypt, Tunisia, and Libya. It focuses on:

- Designing and implementing new curricula and AI-based digital learning platforms (DigiLabs).
- Training medical emergency and disaster (MED) professionals and teachers through blended (physical + digital) methods.
- Enhancing cooperation between EU member states, associate countries, and SMCs to modernize vocational training and lifelong learning.

Specific Objectives

- Exchange experience and knowledge between EU/associate countries and SMCs through training mobilities.
- Develop novel curricula and integrate them into AI- and VR-based digital platforms (DigiLabs).
- Pilot DigiLabs in three SMC partner institutions.
- Create sustainability, quality assurance, and feasibility tools to ensure long-term use of the project results.

Expected Outputs

- 6 Work Packages, 20 Tasks, 28 Deliverables.
- 5 project meetings, 1 workshop, 1 international conference, and 2 mobilities.
- Creation of Digital Training Labs (DigiLabs) and new curricula in the medical emergency and disaster (MED) sector.
- Enhanced professional development of MED teachers and trainers in the SMC region.

AASTMT's Role

AASTMT (Egypt) will lead activities related to Quality Assurance (WP5), contribute to Digital Platform Development, and support the capacity building of MED professionals in Egypt and other SMCs.



LIVEVET - Living Lab methodology & innovative business model for transforming VET organizations into main actors towards an inclusive Green and Digital transition

Co-funded by the Erasmus+ Programme of the European Union

LIVEVET

Programme

Erasmus+
Vocational Education and Training

Type of Action

ERASMUS-EDU-2025-CB-VET

Duration: Start Date: 1-1-2026
End Date: 31-12-2025

Total Budget: 507,070 Euro

Budget of AASTMT in this Project: 59,962. Euro

Grant Agreement Number

101242201

Coordinator

- Metropolitan College, Innovation Hive - Greece

Partners

- AFPA (National Agency for Adult Vocational Training) - France
- Planning and Development Agency (PDA) - Lebanon
- CVPT Education - Tunisia
- Al-Emad Alkabeer for Training and Development (Support Youth Leaders) - Jordan
- Arab Academy for Science, Technology & Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Mohamed Youssef Omar, PhD*
  - *Head of Scientific Projects Management Department, Deanery of Scientific Research*
  - *Formal EEAA Consultant: Quantitative Environmental Risk Assessment Consultant*
  - *Tel.: (+2) 03 561 1818*
  - *Mob.: (+2) 0100163 6224*
  - *mohamed.youssef@aast.edu*
  - *omarmy70@gmail.com* | *www.aast.edu*

Project Abstract

The EU Green Deal emphasizes that achieving a circular and climate-neutral economy by 2050 requires immediate action, large-scale industry mobilization, and continuous reskilling and upskilling of the workforce. The green and digital transitions are transforming labor markets, creating new jobs, and reshaping existing ones, which makes developing relevant skills essential.

There is a growing need to strengthen both digital and green skills among youth and the working population. Green skills—such as resource efficiency, waste reduction, and sustainable business models—must be practical and aligned with real-world needs. At the same time, automation and digitalization are rapidly changing global value chains, requiring adaptability, entrepreneurship, and problem-solving abilities.

In this context, Vocational Education and Training (VET) plays a crucial role in supporting the green and digital transformation. However, VET providers must modernize their approaches and build stronger partnerships with industry and public stakeholders to design demand-driven and responsive training interventions.

The LIVEVET project addresses this need by introducing an innovative business model based on the Living Lab methodology—an open, user-centered innovation ecosystem that fosters co-creation, testing, and scaling of sustainable solutions through collaboration between citizens, companies, research institutions, and public authorities.

Specific Objectives

The LIVEVET project aims to transform Vocational Education and Training (VET) organizations in the Mediterranean region into key drivers of an inclusive green and digital transition. It achieves this by introducing an innovative operational model based on the Living Lab methodology, which fosters real-world, user-centered innovation ecosystems through active Public-Private-People Partnerships.

Key Approach

The project moves VET providers from being mere training centers to becoming central hubs of collaboration. It brings together students, educators, businesses (especially SMEs), policymakers, and researchers to co-create and pilot demand-driven training programs that address the actual skill needs of the green and digital economy.

Main Activities

- Developing a Living Lab Methodology: Creating a guide for VET providers to establish their own sustainable innovation ecosystems.
- Building Capacity: Designing innovative curricula and tools that integrate green and digital skills (e.g., renewable energy, circular economy, IoT, digital marketing).
- Creating a Digital Platform: Developing an online tool to support collaboration and knowledge sharing within the Digital VET Living Labs.
- Piloting and Validation: Implementing the methodology, tools, and training in real-world settings across six countries to test and refine them.
- Policy Recommendations: Developing guidelines to influence national and regional VET policies for long-term impact.



e-Twin - Enhancing Higher Education in MENA through Digital Twin Innovation

Co-funded by the Erasmus+ Programme of the European Union

e-Twin

Programme

Erasmus+
Capacity Building in Higher Education (CBHE)
Call: ERASMUS-EDU-2025-CBHE-STRAND-1
STEM

Duration: Start Date: 1-12-2025
End Date: 1-12-2028

Total Budget: 399,999 Euro

Budget of AASTMT in this Project: 70 621.00 Euro

Grant Agreement Number

101237408

Coordinator

- University of Reims Champagne-Ardenne (URCA) - France

Partners

- Alma Mater Studiorum - Università di Bologna (UNIBO) - Italy
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*
- German International University (GIU) - Egypt
- Université de Tunis (UT) - Tunisia
- Université de Gafsa (UGaf) - Tunisia
- Centre De Calcul El Khawarizmi (CCK) - Tunisia

Project Abstract

The e-TWIN project offers a unique opportunity to enhance the digital competencies and capacities of the MENA HEIs, represented by Egypt and Tunisia, building on the know-how and strengths of EU HEIs, such as France and Italy. It is a three-year project in which academic and industrial partners cooperate to develop, integrate, and disseminate the adoption of digital twin technologies in higher education. The project is accordingly organized into three successive phases-Preparation, Development, and Implementation with distinct objectives, tasks, and deliverables. In summary, the modernization and innovative ifferentiations the project would make to MENA HEIs involve enhancement in quality of education and better relevance of curriculum to labour market requirements, and reinforcement of international cooperation. It also aims to foster innovation, sustainability, and strategic partnerships between higher education and industry to ultimately contribute to the SDGs.

Specific Objectives

The objectives of capacity building in higher education are fulfilled through the E-TWIN project by:

1. Establish four digital twin labs acting collectively as a E-TWIN to neighbouring areas and non-associate partners. The four labs are set to be distributed evenly among the two MENA countries (Egypt and Tunisia) and at four HEIs (AASTMT, GIU, UT, UGaf). Thus, this widespread would guarantee the highest exposure and spread of the newly acquired skills. (Unit of measurement: Digital Twin lab. Baseline value: 0. Target value: 4)
2. Increasing competencies of the main beneficiaries of the higher education sector; namely UG and PG students, in the area of digital twin technologies through the developed modules and the new proposed modules and training activities/placements. (Unit of measurement: modernized modules. Baseline value: 0. Target value: 8) (New modules. Baseline value: 0. Target value: 2) (Placement module. Baseline value: 0. Target value: 2)
3. Promoting a more active role for universities in collaboration with industry through hosting tests/ demonstrations for industries which helps to build the capacity of students and staff in universities through the provision of project ideas, for instance, for Bachelor and Masters projects. This is during and after the project implementation. This exposes both students and staff to real-life problems which helps students with their employment and helps staff in generating ideas for research and commercial projects. (Unit of measurement: trained staff. Baseline value: 0. Target value: 32) (Unit of measurement: trained students. Baseline value: 0. Target value: 40)
4. Exposing students to new learning experiences through exchanges/mobility, training and site visits to the EU. Enhancing graduate employability, as a key performance indicator of the higher education sector, through equipping graduates with a key skill set of growing importance to the industry. Enhancing knowledge of one of the main pillars of the higher education sector; namely academic staff, in the area of digital twin technologies through the knowledge transfer and training-of-trainer activities proposed with the EU partners.

- Synergized Lab-Curriculum Delivery: Support the synergized delivery of the new modernized curricula and operating lab units at the participating MENA HEIs.
- Advancing Inclusivity: Increase the accessibility of students and staff women in engineering, people with fewer opportunities, and disabilities, by establishing international relations and supporting students and staff mobility. (Unit of measurement: Students & Staff Mobility. Baseline value: 0. Target value: 24)



Health-Tech – Healthcare Enhancement through Establishment of Biomedical Engineering Technology Centers

Co-funded by the Erasmus+ Programme of the European Union

HEALTH-TECH

Healthcare Enhancement through Establishment of Biomedical Engineering Technology Centers

Programme

Erasmus+
Capacity Building in Higher Education (CBHE)
Call: ERASMUS-EDU-2025-CBHE-STRAND-1

Duration: 36 Months
Start Date: 1.11.2025
End Date: 31.10.2028

Total Budget: €399,992.00

Budget of AASTMT in this Project: €74,440

Grant Agreement Number

101237319

Coordinator

- Universidad Politécnica de Madrid (UPM) – Spain

Partners

- İzmir Bakırçay University (IZBU) – Türkiye
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*
- Tanta University (TU) – Egypt
- Université de Carthage (UCAR) – Tunisia
- Université de Monastir (UM) – Tunisia
- Centre de Calcul El-Khawarizmi (CCK) – Tunisia

Project Abstract

Healthcare is one of the Sustainable Development Goals that greatly impacts human life and the economy. Biomedical engineers play a crucial role in addressing healthcare challenges through technological innovation. Biomedical engineering education has become essential as countries reinforce their healthcare systems to respond to crises. Globally, biomedical engineering programs are recognized for producing skilled professionals capable of designing and implementing digital healthcare solutions.

In many sectors—including medical instrument manufacturing, maintenance and sales agencies, hospitals, and software development—biomedical engineers are in high demand. However, professionals with both medical and engineering competencies remain scarce in Region (3) countries such as Egypt and Tunisia. This shortage poses barriers to meeting evolving healthcare needs, and limits the integration of advanced technologies in these healthcare systems.

The pioneering HEALTH-TECH project connects global experts to establish a collaborative platform merging medical and engineering principles, particularly in medical devices, instrumentation and imaging, and rehabilitation technologies. It aims to enhance educational programs through modernized teaching and training modules, and workshops that foster a new generation of professionals capable of working seamlessly across disciplines.

Through structured interdisciplinary learning and collaboration, HEALTH-TECH empowers individuals to advance biomedical engineering. The project seeks to build a sustainable talent pipeline between medical practices and engineering innovations in Egypt and Tunisia through strategic partnerships. The project is grounded in technical expertise, development potential, and strong management capabilities, integrating leading medical and engineering institutions in the partner countries to maximize impact.

Specific Objectives

- Establish a common language between engineers and medical specialists.
- Develop modernized educational and training modules in HEIs related to Biomedical Engineering.
- Establish Biomedical Engineering Centers of Excellence in Egypt and Tunisia supported by small laboratory equipment.
- Promote collaboration among institutions and industrial partners working in biomedical engineering to address market needs and enhance job creation.
- Encourage collaboration across global regions through joint activities, exchange of expertise, and promoting internationalization of HEIs by strengthening synergies between HEIs in Beneficiary regions and the EU.
- Enhance the quality of higher education in biomedical engineering and its relevance to the job market and society.



LEAD-MENA - Launch of an Advanced Educational and Development Access Hubs in Mena Region

Co-funded by the Erasmus+ Programme of the European Union

Lead-MENA

Programme

the European Union
Erasmus+
Capacity Building in Higher Education (CBHE)

Duration: Start Date: 01-11-2025
End Date: 01-11-2028

Total Budget: 444,444 Euro

Budget of AASTMT in this Project: 78,110 Euro

Grant Agreement Number

101237424

Coordinator

- University of Kairouan (UnivK) - Tunisia
  - ***Contact:*** *Prof. Sourour Chtourou Miled*
  - *Assistant Professor and Director*
  - *Higher Institute of Arts and Crafts in Kairouan*

Partners

- University of Manouba (UMA) - Tunisia
- Al-Khawarizmi Computing Center (CCK) - Tunisia
- Badr University in Cairo (BUC) - Egypt
- International Hellenic University (IHU) - Greece
- Università di Firenze (UNIFI) - Italy
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*

Project Abstract

The project aims to create an interactive educational environment, the Sustainable Educational Hub for Innovation (LEAD-MENA), where students and graduates can engage in academic support, skill development, simulation activities, and collaborative initiatives. LEAD-MENA integrates industrial practices such as sustainability packaging solutions, VR/AR innovative technologies, logistics and supply chain software, and energy monitoring systems into educational programs. It serves as a collaborative hub, connecting academia, industry experts, and students to address complex business challenges, particularly in sustainability and innovation. Through hands-on learning, participants explore packaging life cycles, assess environmental impacts, and develop waste-reduction strategies using advanced technologies and sustainable design principles.

LEAD-MENA also fosters partnerships between academic institutions and industry, enabling students to work on real-world projects that address industrial challenges. The program emphasizes interdisciplinary collaboration, ethical considerations, and global perspectives, equipping graduates with the skills to contribute meaningfully to the logistics and industrial sectors. It targets over 200 students, professionals, and 20 / 30 professors, focusing on practical knowledge application through industrial case studies from Tunisia and Egypt. Participants will present business cases show casing their solutions, enhancing their employability and fostering innovative ideas that bridge contemporary knowledge with industrial needs.

Specific Objectives

- Enhance Higher Education Quality and Relevance.
- Improve Student Proficiency and Employability.
- Strengthen Higher Education Institutions.
- Enhance Knowledge of Sustainable Processes.



SAFER - Sustainable Agri-Futures: Empowering Climate Resilience and Green Growth in Higher Education

Co-funded by the Erasmus+ Programme of the European Union

Programme

Erasmus+ (European Education and Culture Executive Agency, EACEA)

Call: ERASMUS-EDU-2025-CBHE / ERASMUS-EDU-2025-CBHE-STRAND-1

Type of Action

ERASMUS Lump Sum Grants

Duration: Start Date: 1-10-2025
End Date: 30-09-2028

Total Budget: €399,163.50

Budget of AASTMT in this Project: €57,972.60

Grant Agreement Number

101237810

Coordinator

- DIETHNES PANEPISTIMIO ELLADOS - International Hellenic University (IHU) - Greece

Partners

- Visshe Uchilishte Po Menidzhmant (VUM) - Bulgaria
- Uzhhorod National University (UzhNU) - Ukraine
- Kherson State University (KSU) - Ukraine
- Heliopolis University Association (HU) - Egypt
- AlBalqa Applied University (BAU) - Jordan
- Al-Albayt University (AABU) - Jordan
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Dr. Kareem Tonbol*
  - *Professor of Physical Oceanography and Climatology, Dean of Scientific Research for Maritime Affairs,*
  - *Mobile / WhatsApp: +201065544817*
  - *ktonbol@aast.edu* | *www.aast.edu*

Project Abstract

The SAFER project brings together partners from Greece, Bulgaria, Ukraine, Egypt and Jordan to strengthen higher education's contribution to climate-resilient and sustainable agriculture. Building on prior research and projects, the consortium aims to educate students and professionals in sustainable farming practices tailored to regional needs, enhance access to high-quality educational resources through digital technologies, and promote international collaboration and knowledge exchange in climate-smart agriculture. By the end of the project, SAFER plans to integrate five innovative digital tools or platforms into the agricultural education systems of each partner country, train 500 individuals across the consortium, and introduce 20 practical sustainable farming practices in each country. The project is positioned as a ground-breaking initiative that combines holistic education, advanced digital tools and EU/non-EU cooperation, offering scalable solutions that can be replicated beyond the partner countries to support global efforts towards environmental resilience and sustainable development.

Specific Objectives

- Educate students and agricultural professionals in sustainable, climate-smart farming practices adapted to the specific needs of each partner country.
- Enhance access to agricultural education resources by integrating innovative digital tools and platforms into higher education programmes.
- Promote international collaboration and exchange of holistic expertise on climate-smart agriculture between EU and non-EU higher education institutions.
- Integrate at least five new digital tools or platforms for agricultural education in each partner country's higher education system.
- Train at least 500 individuals (students, educators, and practitioners) across all partner countries in sustainable and climate-resilient farming practices.
- Introduce at least 20 practical, evidence-based sustainable farming practices in each project country to support climate resilience and green growth.
- Contribute to global Sustainable Development Goals (particularly Quality Education and Climate Action) and the EU Green Deal by aligning higher education with circular-economy and low-carbon agricultural transitions.



Interreg NEXT MED

Co-funded by the European Union



GREENMEDPORTS

Programme

Interreg NEXT MED Programme 2021–2027

Project Reference Number

A_T_2.1_0212

Type of Action

Thematic Project

Programme Specific Objective

RSO2.1 – Promoting energy efficiency and reducing greenhouse gas emissions

Duration: 36 months

Total Budget: €2,524,930

EU (NEXT MED) Contribution: €2,247,187.70 (approximately 89% of total costs)

Lead Partner

- Autorità di Sistema Portuale del Mar Tirreno Settentrionale (ADSPMTS) - Italy
  - ***Contact:*** *Mr. Luciano Guerrieri*

Programme Managing Authority

- Regione Autonoma della Sardegna (Autonomous Region of Sardinia) - Italy

Geographical Coverage

- EU Countries: Italy, Spain, Malta
- Mediterranean Partner Countries (MPCs): Egypt, Algeria, Jordan, Tunisia
- Total Partners: 7 (Lead Partner + 6 others)
- Associated Partners: 6

Main Goal

To establish a cluster of Mediterranean green ports that promotes sustainability, energy efficiency, and low-emission practices in maritime transport, through cooperation, digital tools, and pilot actions across the Mediterranean basin.

Specific Objectives

- Promote energy efficiency and reduce greenhouse gas emissions in port operations.
- Create a network of six Local Green Port Hubs in Italy, Egypt, Algeria, Jordan, Malta, and Tunisia.
- Develop and implement a Carbon Footprint Platform (CFP) shared by all partners.
- Support pilot activities for decarbonisation and energy transition.
- Encourage cooperation agreements and training on sustainable port management.
- Institutionalize working groups for long-term regional collaboration.

Main Outputs and Activities

- 6 Local Green Port Hubs established (Italy, Egypt, Algeria, Jordan, Malta, Tunisia).
- Carbon Footprint Platform (CFP):
    - Digital tool to measure, monitor, and share carbon data across ports.
    - Pilots conducted in five port areas.
- GREENMEDPORTS Forum:
    - Knowledge exchange and policy coordination at the regional level.
- Training and Capacity Building:
    - Decision-support tools for sustainable port policies and decarbonisation strategies.
- Cooperation Agreements:
    - Between port authorities and stakeholders for energy-efficient transport initiatives.

Target Groups and Beneficiaries

- Port authorities and port community stakeholders.
- Transport and logistics operators in the Mediterranean region.
- Regional organizations (e.g. UfM Transport Platform, MED Ports Association, GTMO 5+5).
- Maritime administrations and research institutions.

Expected Impact

- Reduced GHG emissions in maritime and port operations.
- Shared standards and practices for "green" port management.
- Stronger regional cooperation in sustainable transport policies.
- A lasting digital platform for carbon monitoring and reporting.



GREENOLIVE - Green Mediterranean through Solar Driven Decarbonization of Industries

Interreg NEXT MED

Co-funded by the European Union

GREENOLIVE



Programme

Interreg NEXT MED Programme 2021–2027

Project Reference Number

Interreg NEXT MED - A_T_2.1_0213_GREENOLIVE

Type of Action

Renewable Energy

Duration: 36 months

Total Budget: €2,749,278

EU (NEXT MED) Contribution: (approximately 89% of total costs)

Lead Partner

- University eCampus - Italy

Partners

- Universitat de Barcelona - Spain
- Çukurova Üniversitesi - Türkiye
- Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas - CIEMAT - Spain
- Aschem Petrokimya Sanayi A.Ş. - Türkiye - Demo Site Host
- R2M Solution SAS - France
- Electrical Engineering Department, Al-Quds University - Palestine
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*

Project Abstract

GREENOLIVE aims to promote a green Mediterranean by developing and demonstrating an up-scaled solar energy system to provide process heat for industries. The project focuses on conserving 18-22% of fossil fuel usage, decreasing greenhouse gas emissions, and increasing energy efficiency through the use of solar thermal energy combined with thermal energy storage and power-to-heat conversion systems. It involves R&D, system integration, demonstration at a petrochemical plant, and extensive capacity building and replication activities across the Mediterranean region.

Specific Objectives

- To promote energy efficiency and reduce greenhouse gas emissions.
- To develop and demonstrate an up-scaled solar energy system for industrial process heat.
- To conduct R&D on Thermal Storage Systems and Power-to-Heat Conversion.
- To design, integrate, and assemble the GREENOLIVE system at a demo site.
- To evaluate the technical and economic performance of the system.
- To create a replicability business plan for broader adoption.
- To build capacity through training kits and workshops.

Expected Outputs

- To demonstrate a new solar energy system using photovoltaics and electric heaters to produce heat at 300°C for plastics manufacturing, cutting fossil fuel use by up to 22%.
- To integrate thermal energy storage made from local waste materials to store excess solar energy and improve system efficiency without expensive batteries.
- To develop tools for replicating the solution in other sectors like textiles, agri-food, and buildings, supported by training materials and open living labs to spread knowledge and skills.
- Industrial plants across the Mediterranean potentially adopting more efficient solar systems, reducing fossil fuel use and cutting greenhouse gas emissions.
- Proven models for solar-based heating will be available for replication in key sectors like textiles and agri-food, supporting wider use of clean energy.
- Stronger cross-border cooperation beyond the project, enabling shared solutions and joint efforts on industrial decarbonisation.



Interreg NEXT MED

Co-funded by the European Union



HEEFTA

Programme

Interreg NEXT MED Programme 2021–2027

Project Reference Number

A_Y_3.1_0232_HEEFTA

Type of Action

Youth-oriented Project

Programme Specific Objective

RSO 3.1 (RSO4.2) – Improving equal access to inclusive and quality services in education, training, and lifelong learning, including fostering resilience for distance and online education.

Duration: 24 months

Total Budget: €981,602.50

EU (NEXT MED) Contribution: €873,626.22 (approximately 89% of total eligible costs)

Lead Partner

- National Technological Centre for the Food and Canning Industry (CTNC) - Spain

Partners

- University of Florence (Università degli Studi di Firenze) - Italy
- University of Patras - Greece
- Education, Geriatrics, Ecological Farming and Tourism Foundation - Türkiye
- El-Khawarizmi Computing Center - Tunisia
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*

Geographical Coverage: Spain, Italy, Greece, Türkiye, Egypt, Tunisia

Main Objective

To strengthen environmental education and green & blue skills among young adults by creating a transnational interdisciplinary network that connects education, research, and practice, transforming training into concrete environmental action across the Mediterranean region.

Specific Objectives

- Develop a common strategy document and Memorandum of Understanding (MoU) to support long-term cooperation.
- Conduct needs analysis research to identify skills gaps in environmental education and green/blue transition sectors.
- Establish an interdisciplinary transnational network of academic and sectoral stakeholders.
- Design and implement a joint training programme consisting of interdisciplinary modules.
- Pilot, adapt, and deliver training modules for higher education students and young professionals.
- Ensure sustainability through impact assessment, dissemination, and follow-up actions.

Key Activities and Outputs

- Establishment of the HEEFTA Network across six Mediterranean countries.
- Development and signing of a Memorandum of Understanding (MoU) among partner institutions.
- Needs analysis and expert working sessions involving academics, researchers, and practitioners.
- Development of a training programme framework with at least five interdisciplinary modules.
- Piloting and implementation of training modules involving 24 higher education students.
- Dissemination of results through open-source materials, advocacy activities, and stakeholder engagement.
- Preparation of a sustainability plan to ensure long-term impact beyond the project lifetime.

Target Groups and Beneficiaries

- Higher education students and young adults.
- Academics, researchers, and education professionals.
- Environmental, green and blue economy sectoral actors.
- Public and private organizations involved in environmental education and skills development.

Expected Impact

- Enhanced interdisciplinary cooperation in environmental education across the Mediterranean.
- Improved green and blue skills among young adults, supporting sustainable development and environmental resilience.
- A sustainable transnational network and training framework that continues beyond the project duration.



RESt4GREEN - Energy efficiency, Renewable Energy Sources and smarT energy conservation for improved quality of life and a GREENer Mediterranean

Interreg NEXT MED

Co-funded by the European Union



RESt4GREEN

Programme

Interreg NEXT MED Programme 2021-2027

Project Reference Number

A_T_2.1_0483

Programme Specific Objective

SO 2.1:** Promoting energy efficiency and reducing greenhouse gas emissions.

Duration: 36 months

Total Budget: €2,804,100

EU (NEXT MED) Contribution: €2,495,649 (approximately to 89% of the total cost)

Co-financing: €308,451.00 (equivalent to 11% of the total cost)

Lead Partner

- University of Patras - Department of Civil Engineering - Greece

Partners

- Izmir Institute of Technology - Türkiye
- Management Company of Technopark Borj Cedria - Tunisia
- Aqaba Special Economic Zone Authority - Jordan
- Terre di Siena Lab - Italy
- Institut Catala d'Energia (ICAEN) - Spain
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*

Project Purpose & Expected Result

The development of a joint roadmap for energy efficiency & for the solar self-illuminated outdoor areas (RESt areas) with the smart benches for the pilot demonstration, a platform to strengthen energy efficiency in the MED area and a policy paper on the reform of institutional and policy instruments.

Main Work Packages (WPs)

- Management and Coordination: Budget €290,000.00

Overseeing implementation, financial and administrative reporting, meeting management, risk management.

- Communication and Dissemination: Budget €337,000.00

Communication plan, promotional material, events, website, participation in conferences.

- Energy Efficiency in public buildings & development of RESt areas (Pilot Implementation): Budget €1,226,500.00

Baseline diagnosis of buildings, developing a joint roadmap, implementing pilot activities (renovation of 6 public buildings and creation of 6 RESt areas), evaluating results.

- Transnational initiatives for multi-level scaling of societal aspect: Budget €390,000.00

Energy Games for students and professionals, the RESt4GREEN platform, expanding the "Green Building cluster," and assessing social impact.

- Fostering policy instruments for territorial development through energy efficiency: Budget €230,000.00

Analysis of current policy instruments in the Mediterranean, preparing a policy paper with reform proposals, organizing a high-level policy event in Spain.

Key Outputs & Indicators

- Joint roadmap for Energy Efficiency & RESt areas.
- Baseline Diagnosis Reports for the selected pilot sites.
- Reports on pilot actions for Energy Efficiency.
- Energy Games training 168 participants (students and professionals).
- RESt4GREEN platform to strengthen Energy Efficiency.
- Expansion of the **Mediterranean Quadruple Helix Cross-Border Community to 60 members.
- Policy paper on the reform of institutional and policy instruments.
- RESt4GREEN policy event in Spain with 80 participants.



SPEEDUP - EU-MED Hubs to accelerate SMEs Sustainable and Competitive Growth

Interreg NEXT MED

Co-funded by the European Union

SPEEDUP



Programme

Interreg NEXT MED Programme 2021-2027

Project Reference Number

A_T_1.2_0543

Programme Specific Objective

SO 1.2:** Developing and enhancing research and innovation capacities and the uptake of advanced technologies.

Duration: 36 months (3 years)

Total Budget: €2,808,980.00

EU (NEXT MED) Contribution: €2,499,992.20 (equivalent to 89% of the total cost)

Co-financing: €308,987.80 (equivalent to 11% of the total cost)

Lead Partner

- Patras Science Park S.A. - Greece

Partners

- Official Chamber of Commerce, Industry, Services and Navigation of Seville - Spain
- Al-Balqa Applied University - Jordan
- INJAZ Lebanon - Lebanon
- C.F.C.D.C. Centre for Competence Development Cyprus - Cyprus
- Chamber of Commerce and Industry of Tunis - Tunisia
- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*

Project Purpose & Expected Result

To create and practice an acceleration programme; to enhance SMEs' growth and competitiveness; and to foster job creation in SMEs through a transnational network of hubs.

Main Work Packages (WPs)

- Management and Coordination: Budget €300,000.00

Overall project coordination, quality monitoring, risk management, and executive management.

- Communication and Dissemination: Budget €424,600.00

Information and awareness campaigns, promotion and dissemination events, and advocacy initiatives for sustainability.

- Transnational network of Accelerating hubs: Budget €711,000.00

Creation of the SPEEDUP network of local hubs, capitalization of best practices, and training for staff operating the hubs.

- Acceleration programme: Budget €529,000.00

Creation of the common SPEEDUP acceleration programme and its piloting with SMEs.

- Empowerment of SMEs' starting up/development: Budget €510,000.00

Supporting new and existing SMEs through monitoring, mentoring, and advocacy for long-term sustainability.

Key Outputs & Indicators

- Transnational network of Accelerating hubs created.
- Total local hubs (7 main hubs by partners + 14 connected hubs by associates).
- Staff members trained to operate the networked hubs.
- Acceleration programme created.
- SMEs involved in the piloting of the acceleration programme (30 in each of the 7 countries).
- New and existing SMEs empowered (new start-ups and existing SMEs strengthened).



WETCARB – Wetland Ecosystem Tool for Carbon Accounting and Regenerative Farming in the Mediterranean

Programme

PRIMA Partnership – Section 1
Farming Systems in the Nexus

Call

Enhancement of Sustainable Farming Systems within Mediterranean Wetlands for Conservation and Coexistence

Type of Action

Innovation Action (IA)

Duration: 36 months

Total Budget: 2.5 Million Euro

Budget of AASTMT in this Project: 323,750 Euro

Coordinator

- Boğaziçi University - Türkiye
  - ***Contact:*** *Prof. Fatma Öztürk*

Partners

- Arab Academy for Science, Technology and Maritime Transport (AASTMT) - Egypt
  - ***Contact:*** *Prof. Yasser Gaber Dessouky*
  - *Dean of Scientific Research and Innovation*
  - *ygdessouky@yahoo.com* | *www.aast.edu*
- Al-Balqa Applied University (BAU) - Jordan
- University of Torino (UNITO) - Italy
- Mediterranean Agrofood Competence Center (MACC) - Greece
- A Sound Fiction (ASF) - Türkiye
- Tunisian Union of Agriculture and Fisheries (UTAP) - Tunisia
- National Observatory of Athens (NOA) - Greece

Project Abstract

The WETCARB project aims to quantify, validate, and enhance the carbon sequestration capacity of Mediterranean wetland ecosystems and their surrounding agricultural areas.

The project integrates:

- Field-based greenhouse gas (GHG) measurements
- Regenerative agricultural practices
- A GIS-integrated Digital MRV (Monitoring, Reporting, Verification) platform
- Carbon accounting methodologies aligned with international standards

WETCARB bridges the gap between environmental conservation and economic sustainability by enabling wetlands and surrounding farmlands to become measurable and potentially monetizable carbon sinks within voluntary carbon markets.

Pilot sites include:

- Lake Burullus (Egypt)
- Lake Acarlar (Türkiye)
- Lake Kerkini (Greece)
- Lake Kournas (Greece)

Specific Objectives

- Quantify carbon sequestration potential in Mediterranean wetlands.
- Develop and test a Digital MRV platform tailored to wetland-agriculture systems.
- Pilot regenerative farming practices to enhance soil carbon storage.
- Prepare validation-ready carbon documentation aligned with voluntary carbon standards.
- Produce policy briefs and a replication toolkit for regional upscaling.

Expected Outputs

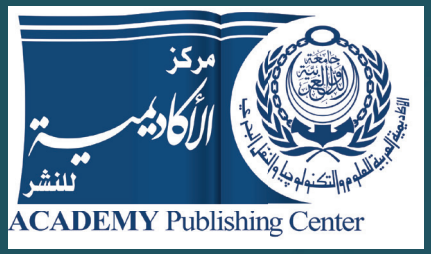
- Comprehensive GHG datasets from four Mediterranean pilot sites.
- Operational Digital MRV platform (TRL 7–8).
- Regenerative agriculture pilot trials in wetland buffer zones.
- Pre-validation carbon documentation files.
- Policy briefs and replication toolkit for Mediterranean stakeholders.
- Scientific publications and dissemination events.

AASTMT's Role

AASTMT (Egypt) leads the Egyptian pilot implementation at Lake Burullus and contributes to:

- Field sampling and carbon monitoring activities.
- Data analysis and validation of GHG measurements.
- Regenerative agriculture pilot trials in Egypt.
- Contribution to the Digital MRV platform testing and validation.
- Policy recommendations and national stakeholder engagement.
- Through its participation, AASTMT strengthens Egypt's contribution to climate mitigation, wetland conservation, and carbon farming innovation in the Mediterranean region.





PUBLICATIONS OF THE AASTMT IN 2025

AASTMT is providing many educational tracks in terms of high quality and diversity of service in order to harmonize with the dynamic development.

BASIC AND FUNDAMENTAL SCIENCE

1. A Bias-Reduced Estimator for Generalized Poisson Regression with Application to Carbon Dioxide Emission in Canada
Authors: Mohamed Abdelaal Mostafa Elkorashy
(Https://Doi.Org/10.1038/S41598-025-24142-0)
Research Type: Journal

2. A Bias-Reduced Estimator for Negative Binomial Regression with An Application to Co2 Emissions Data
Authors: Mohamed Abdelaal Mostafa Elkorashy
(Https://Doi.Org/10.12982/Cmjs.2025.085)
Research Type: Journal

3. A Comprehensive Analysis of Nanofluid Flow with Mass and Heat Transfer Between Parallel Surfaces in A Darcy Porous Medium Considering Chemical Reaction and Thermal Radiation
Authors: Wael Abbas Mahfouz Mohamed and Mohamed Khairy Ahmed Hussin
(Https://Doi.Org/10.21608/Erj.2025.378954.1230)
Research Type: Journal

4. A Comprehensive investigation on Lanthanum Ion-Doped Borate-Silicate Glass for Optical and Protective Radiation Applications
Authors: Mohamed Saied Hasan
(Https://Doi.Org/10.1007/S10854-025-14710-5)
Research Type: Journal

5. A Dual Enhanced Stochastic Gradient Descent Method with Dynamic Momentum and Step Size Adaptation for Improved Optimization Performance
Authors: Mohamed Fathy Emam
(Https://Doi.Org/10.1038/S41598-025-24689-Y)
Research Type: Journal

6. A New Data Analysis tool with Theoretical Foundations and Statistical Properties: Its Implementations in Sports and Radiation Sciences
Authors: Mohamed Abdelaal Mostafa Elkorashy
(Https://Doi.Org/10.1016/J.Jrras.2025.102081)
Research Type: Journal

7. A Study of Mhd Dissipative Casson Nanofluid Flow Through A Porous Medium Over A Stretching Sheet Under The influence of Thermal Radiation and Chemical Reaction
Authors: Wael Abbas Mahfouz Mohamed and Mohamed Fathy Emam
(Https://Doi.Org/10.21608/Erj.2025.398751.1258)
Research Type: Journal

8. A Study of The Dynamic Response of Two Concentric Spheres in The Context of Thermoelastic Diffusion with Internal Heat Source
Authors: Mohamed Fathy Zaky Mohamed, Samar Ahmed Mahrous and Mohamed Fawzy Abbas
(Https://Doi.Org/10.1016/J.Csite.2025.106540)
Research Type: Journal

9. Almost Quasi-Yamabe Solitons and Gradient Almost Quasi-Yamabe Solitons on Twisted and Doubly Warped Product Manifolds

Authors: Uday Chand De, Emad Fali Wanas Kirolos, Ayman Elsharkawy and Hatem E. Semary
(Https://Doi.Org/10.1140/Epjp/S13360-025-07042-0)
Research Type: Journal

10. Analysis of Contact Mechanics for Flat Stamps on Graded Coatings Using Shifted Legendre Polynomials of The First Kind
Authors: Sara Abdelhamed Ahmed Mekky
(Https://Doi.Org/10.21608/Jcsit.2024.333833.1013)
Research Type: Journal

11. Analysis of Human Performance Monitoring in Control Rooms for Small Modular Reactor (Smr) Deployments
Authors: Ahmed Ramadan Ahmed Mohamed
Research Type: Journal

12. Applying 1d Convolutional Neural Networks to Advance Food Security in Support of Sdg 2
Author: Radwa Ahmed Osman
(Https://Doi.Org/10.3389/Fsufs.2025.1615998)
Research Type: Journal

13. Assessing The Accuracy of Ai Approaches for Co2 Emission Predictions in Buildings
Authors: Ahmed Omar Ahmed Mohamed Elgharib and Khaled Mohammed Mohammed Youssef Selim
(Https://Doi.Org/10.1016/J.Jclepro.2025.145692)
Research Type: Journal

14. Bioactive Chitosan Based Coating incorporated with Essential Oil to inactivate Foodborne Pathogen Microorganisms and Improve Quality Parameters of Beef Burger
Authors: Osama Mahmoud Morsy Ali
Research Type: Journal

15. Borate Glasses Doped with Multiferroic Bini0.5fe0.5o3 Nanoparticles: Preparation, Physical, Optical Properties and Γ-Ray Attenuation Competence
Authors: Adel Mohamed Abd Elfattah Elrefaey
(Https://Doi.Org/10.1007/S11837-025-07150-3)
Research Type: Journal

16. Computational Analysis of The Mhd Dissipative Casson?Williamson Fluid Flow Past A Slippery Stretching Sheet with Thermal Radiation Impact
Authors: Wael Abbas Mahfouz Mohamed
Research Type: Journal

17. Computational Methods for Solving Linear integral Equations
Authors: Reham Abd Elsadek Gomaa
Research Type: Thesis

18. Construction Optical Solitons of Generalized Nonlinear Schrodinger Equation ¨ with Quintuple Power-Law Nonlinearity Using Exp-Function, Projective Riccati, and New Generalized Methods
Authors: Wael Abbas Mahfouz Mohamed and Ola Mostafa Mohie Elden El Den
Research Type: Journal

19. Dynamics of An Oscillating Aerosol Spherical Particle within A Permeable Medium Bounded By Two Rigid Plates

Authors: Baraa Adel Khamis, Mohamed Fathy Zaky, Mohamed Fawzy Abbas and Samar Ahmed Mahrous
(Https://Doi.Org/10.1016/J.Cjph.2025.02.001)
Research Type: Journal

20. Dynamics of Hydrogen Ion-Acoustic, Periodic, and Superperiodic Waves in Magnetized Cometary Plasma Comprising Oxygen Ions and Superthermal Electrons
Authors: Mohamed Abdelzaher Abdelrasoul Mohamed
(Doi Https://Doi.Org/10.1007/S13538-025-01802-0)
Research Type: Journal

21. Elevating Plasma Physics: The Role of Higher-Order Nonlinearities in Space Dust Shock Waves with Superthermal Ions
Author: Mohamed Abdelzaher Abdelrasoul Mohamed
Research Type: Journal

22. Enhancement of Stochastic Gradient Descent Generalization for Pv Power Prediction
Authors: Mohamed Adel Mohamed Mokhtar and Mohamed Fathy Emam
(Https://Doi.Org/10.21608/Erj.2025.409270.1268)
Research Type: Journal

23. Entropy Generation Due to Mhd Natural Convection in A Square Enclosure with Heater Corners Saturated Porous Medium Using Cu/Water Nanofluid Containing insulated Obstacle
Author: Taha Salah Eldin Mahmoud Mosta
(Https://Link.Springer.Com/Article/10.1007/S40430-025-05672-0)
Research Type: Journal

24. Entropy Generation Modeling in Dynamic Local Thermal Non-Equilibrium Systems Using Neural Networks
Author: Zeinab Abo Elhassan Ahmed
(Https://Doi.Org/10.3390/ Pr13020319)
Research Type: Journal

25. Entropy Generation on Mhd Hybrid Nanofluid Flow Over A Porous Square Cavity with A Cross-Shaped Obstacle and Heater Corners
Author: Taha Salah Eldin Mahmoud Mosta
(Https://Doi.Org/10.1007/S10973-025-14782-9)
Research Type: Journal

26. Exploitation of Plasma Treatment-Assisted Monocarboxylic Cobalt Phthalocyanine Nanorod Growth for High-Efficiency Photodetection Applications
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

27. Exploring Slip Boundary Impacts on Magnetohydrodynamic Casson Nanofluid Flow Over A Vertical Stretching Sheet with Nonlinear Thermal Radiation
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

28. Ferro-Fluid Flow and Heat Transfer Over Unsteady Stretching Sheet in The Presence of A Nonuniform Magnetic Field
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

29. Frequent Pattern Mining for Cyberattack Detection Using Fp-Growth on Network Traffic Logs
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.33395/Sinkron.V9i4.15221)
Research Type: Journal

30. Ftir, Dielectric and Radiation Accumulative Factors of B2o3-Naf-Zno-Bi2o3 Glasses Reinforced with Cuo/Fe2o3
Author: Adel Mohamed Abd Elfattah Elrefaey
(Https://Doi.Org/10.1007/S11664-025-11873-Z)
Research Type: Journal

31. Heat and Mass Transfer in A Conical Gap with Mono and Hybrid Nanofluids
Author: Zeinab Mahmoud Ahmed
Research Type: Journal

32. Heat and Mass Transfer of Micropolar Fluid Flow Over A Stretching Sheet By Legendre Collocation Method
Author: Mohamed Fathy Emam
(Https://Doi.Org/10.1038/S41598-025-10028-8)
Research Type: Journal

33. Hydrophobic Core influences and Stress Jump Conditions in Creeping Flow Over Two Soft Spherical Particles
Authors: Baraa Adel Khamis, Samar Ahmed Mahrous, Mohamed Fathy Zaky Mohamed and Mohamed Fawzy Abbas
(Https://Doi.Org/10.1063/5.0294375)
Research Type: Journal

34. influence of Variable Lorentz force-Dependent Viscosity on Mixed Double Diffusion in inclined Finned Rectangular Containers: Rsm Optimization and Ann Prediction
Author: Zeinab Abo Elhassan Ahmed
(Https://Doi.Org/10.1007/S44198-025-00312-6)
Research Type: Journal

35. innovative Survival Modeling in Pandemics with A Novel Family of Distributions: A Comparative Study of Uk and Mexico Pandemic Data
Author: Mohamed Abdelaal Mostafa Elkorashy
(Https://Doi.Org/10.1038/S41598-025-26210-X)
Research Type: Journal

36. interface-Engineered Ni-Cu-Al Ferrite/Polypyrrole Nanocomposites: Advanced Solutions for Emi Shielding and Stealth Applications
Author: Sherif Gamal Mohamed El Sharaw
(Https://Doi.Org/10.1016/J.Compstruct.2025.119444)
Research Type: Journal

37. investigation of A Novel Exact Wave Solution Structure in Nonlinear Thermoelasticity Using Modern Techniques
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

38. investigation of Flow and Heat Transfer of Unsteady Maxwell-Micropolar Fluid Over A Stretching Surface By Chebyshev-Collocation Method
Author: Mohamed Fathy Emam
(Https://Doi.Org/10.21608/Erj.2025.441114.1312)
Research Type: Journal

39. investigation of Slip Phenomenon of Tangent Hyperbolic Nanofluid Flow Due to A Vertical Sheet with Thermal Radiation
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

40. Modulation instability Analysis and Deriving Soliton Solutions of New Nonlocal Lakshmanan–Porserzian–Daniel Equation
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

41. Multiferroic Nanoparticle-Doped Borate Glasses: Physical, Dielectric Characteristics and ɼ-Ray Attenuation Ability
Author: Adel Mohamed Abd Elfattah Elrefaey
(Https://Doi.Org/10.1007/S11837-025-07307-0)
Research Type: Journal

42. Neodymium Ion-Doped Borate-Silicate Glass: A Thorough Analysis for Applications in Optical and Protective Radiation
Author: Mohamed Saied Hasan
(Https://Doi.Org/10.1140/Epjp/S13360-025-06194-3)
Research Type: Journal

43. New formula for Divisibility of Some Prime Numbers
Author: Alfaisal Abdelhameed Mohamed
Research Type: Journal

44. New Robust Estimator for Handling Outliers and Multicollinearity in Gamma Regression Model with Application to Breast Cancer Data
Author: Mohamed Abdelaal Mostafa Elkorashy
(Https://Doi.Org/10.1038/S41598-025-25231-W)
Research Type: Journal

45. Nickel-Substituted Cdsno3 Perovskite Nanoparticles: A New Frontier in Energy Storage
Author: Sherif Gamal Mohamed El Sharaw
(Https://Doi.Org/10.1007/S11664-025-12071-7)
Research Type: Journal

46. Non-Darcy Bioconvective Flow of The Ree-Eyring Ternary-Hybrid Nanofluid Over A Stretching Sheet with Velocity and Thermal Slips: Entropy Analysis
Author: Zeinab Mahmoud Ahmed
Research Type: Journal

47. Nonlinear Analysis of Ion-Slip and Surface Roughness Effects in Peristaltic Flow of Williamson Nanofluid Through A Stenosed Artery with Reference to Experimental Observations
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

48. Numerical Simulation Via Homotopy Perturbation Approach of A Dissipative Squeezed Carreau Fluid Flow Due to A Sensor Surface
Author: Wael Abbas Mahfouz Mohamed
Research Type: Journal

49. Numerical Solutions of Linear Fredholm integral Equations of The Second Kind
Author: Sara Abdelhamed Ahmed Mekky
Research Type: Thesis

50. Optical and Luminescence Characterizations of Praseodymium Doped High Dense Alkali Zinc Lead Fluoroborate Glasses: A Modified Judd-ofelt Theory

Author: Samir Yousef Mohamed
(Https://Doi.Org/10.1016/J.Jallcom.2025.183163)
Research Type: Journal

51. Potato Plant Disease Evaluation Expert System Using Case-Based Reasoning K-Nearest Neighbor Algorithm
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.37394/232033.2025.3.25)
Research Type: Journal

52. Radiation-Shielding, Dielectric, and Ftir Characteristics of Borosilicate Glasses Boosted with Lanthanum Oxide
Author: Mohamed Saied Hasan
(Https://Doi.Org/10.1007/S10904-025-03908-Z)
Research Type: Journal

53. Radiative Effects onmagneto-Natural Convection Flow in An inclined Wavy Porous Cavity Usingmicropolar Hybrid Nanofluid Containing A Heated Circular Obstacle
Author: Zeinab Mahmoud Ahmed
(Https://Doi.Org/10.1007/S10973-025-14090-2)
Research Type: Journal

54. Removal of Chemical Pollutants From Aqueous Media By Sonochemical Methods
Author: Zeinab Mohamed Badr Saleh Ahmed El-Husseiny Mohamed Zohdy
Research Type: Thesis

55. Role of Composition in Photocatalytic Efficiency of Cu2+ and Al3+ Co-Doped Ni–Zn Ferrites Nanoparticles
Author: Sherif Gamal Mohamed El Sharaw
(Https://Doi.Org/10.1016/J.Jpcs.2025.113268)
Research Type: Journal

56. Semi Analytical Solution of Mhd and Heat Transfer of Couple Stress Fluid Over A Stretching Sheet with Radiation in Porous Medium
Authors: Wael Abbas Mahfouz Mohamed and Mohamed Khairy Ahmed Hussin
(Doi:10.32604/Fhmt.2025.069710)
Research Type: Journal

57. Semi-Analytical Solution of Linear and Nonlinear Fractional Delay Differential Equations Via The Legendre Collocation Method
Author: Mohamed Fathy Emam
(Https://Doi.Org/10.1007/S44198-025-00285-6)
Research Type: Journal

58. Significance of Thermal Radiation and Suction/injection on Flow and Heat Transfer of Various Nanofluids Along Expandable Stretching Horizontal Cylinder
Author: Mohamed Fathy Emam
(Https://Doi.Org/10.1186/S13661-025-02010-0)
Research Type: Journal

59. Statistical Assessment of Financial Stress and Saudi Government Revenue
Author: Mohamed Abdelaal Mostafa Elkorashy
(Http://Dx.Doi.Org/10.18576/Jsap/140606)
Research Type: Journal

60. Structural and Magnetic Tailoring of Co-Cu Ferrite Nanoparticles Via Cd2+ Substitution: A Multi-Characterization Approach
Author: Sherif Gamal Mohamed El Sharaw
(Https://Doi.Org/10.1007/S00339-025-08897-X)
Research Type: Journal

61. Structural, Morphological, and Magnetic Study of Transition Metals Co-Doped Znfeo Nanocomposites Prepared By Sol-Gel Method for Spintronic Applications
Author: Mohamed Saied Hasan
(Https://Doi.Org/10.1016/J.Ceramint.2025.01.448)
Research Type: Journal

62. Tailored Photonic Properties of Er/Yb/Fe/Co/Ni Co-Doped Zno Thin Films for integrated Planar Waveguide Applications
Author: Mohamed Saied Hasan
(Https://Doi.Org/10.1016/J.Surfin.2025.107834)
Research Type: Journal

63. Temperature Dependent Crystallinity, Dft Calculations and Electrochemical Behavior of Nife2o4/Reduced Graphene Oxide Fiber Electrodes for High-Performance Supercapacitors
Author: Sherif Gamal Mohamed El Sharaw
(Https://Doi.Org/10.1016/J.Materresbull.2025.113845)
Research Type: Journal

64. The influence of Neodymium Oxide on The Physical, Dielectric, and Radiation-Shielding Properties of Glasses Composed of Bismuth Zinc Borosilicate
Author: Mohamed Saied Hasan
(Https://Doi.Org/10.1007/S10904-025-03619-5)
Research Type: Journal

65. The Thermal Quality Factor of A Viscothermoelastic Nano-Resonator with Fractional Order Young's Modulus Based on Hyperbolic Two-Temperature Dual-Phase-Lag Heat Conduction Model
Author: Nasser M. El-Maghraby, Alaa A. El-Bary, Haitham M. Atef, M. M. Abd El-Raouf, E. F. Wanas and Hamdy M. Youssef
(Https://Doi.Org/10.1007/S43995-025-00194-2)
Research Type: Journal

66. Thermal Radiation Effects on Nanofluid Flow Over A Vertical Cone in The Presence of Pressure Work
Author: Mohamed Fathy Emam
(Https://Doi.Org/10.1038/S41598-025-10554-5)
Research Type: Journal

67. Thermo- and Photophoretic Mobilities of An Oscillating Spherical Aerosol Particle
Authors: Baraa Adel Khamis and Mohamed Elsaid Mohamed Elsaid
(Https://Doi.Org/10.1063/5.0295694)
Research Type: Journal

68. Thermocapillary and Photocapillary Effects on A Spherical Droplet Embedded in A Brinkman Medium
Authors: Samar Ahmed Mahrous and Baraa Adel Khamis
(Https://Doi.Org/10.29020/Nybg.Ejpam.V18i3.6505)
Research Type: Journal

69. Thermodynamic Analysis of Mixed Convective Ternary-Hybrid Ree-Eyring Nanofluid Flow Past A Static Wedge

Author: Zeinab Mahmoud Ahmed

Research Type: Journal

70. Thermomagnetically Driven Ferrofluid Layer Saturating A Porous Medium Over A Stretching Sheet Under A Weak Field Gradient, Radiation and Viscous Dissipation

Author: Wael Abbas Mahfouz Mohamed

Research Type: Journal

CLIMATE CHANGE AND ENVIRONMENT SCIENCE

71. Accelerating SDGs for Sustainable Communities Using C2c Concept

Author: Ola Diaa Salah

(Https://Doi.Org/10.4236/Jep.2025.1610056)

Research Type: Journal

72. Applying Green Roof in An Educational Building in The Hot Arid Zone to Achieve Thermal Comfort

Author: Adel Samy El Menshawy

(Https://Doi.Org/10.1007/S43995-025-00209)

Research Type: Journal

73. Assessing The Accuracy of Ai Approaches for Co2 Emission Predictions in Buildings

Authors: Ahmed Omar Ahmed Mohamed Elgharib and Khaled Mohammed Mohammed Youssef Selim

(Https://Doi.Org/10.1016/J.Jclepro.2025.145692)

Research Type: Journal

74. Assessment and Analysis of Carbon Footprint Trends At Aastmt Main Campus (2018–2021): An Approach toward A Net-Zero Future

Authors: Kareem Mahmoud Hassan tonbol, Wafaa Elsayed, Mohamed Abousena, Mohamed Shaltout and Mahmoud Elbawab

(Https://Doi.Org/10.1007/S41207-025-00852-9)

Research Type: Journal

75. Assessment of Land Cover Strategies for Lowering Outdoor Air Temperatures and Cooling Resilience in Partially Air-Conditioned Buildings in Hot-Arid Urban Areas

Authors: Mohamed Maher Rabie Lakosha and Tarek Mohamed Abdelhamid

(Https://Doi.Org/10.1016/J.Scs.2025.106762)

Research Type: Journal

76. Bibliometric Analysis of Climate Research in East Africa: The Rise and Progress

Author: Mohamed Rady Ewis Daif

(Https://Doi.Org/10.1080/27658511.2025.2454746)

Research Type: Journal

77. Biodegradation of Low-Density Polyethylene Ldpe By Marine Bacterial Strains Gordonia Alkanivorans Pbm1 and Psw1 Isolated From Mediterranean Sea, Alexandria, Egypt

Authors: Kareem Mahmoud Hassan tonbol, Donia M. Wafaa, Mahmoud W. Sadik and Hala F. Eissa

(Https://Doi.Org/10.1038/S41598-025-96811-Z)

Research Type: Journal

78. Climate Change Responses in The Saudi Maritime Sector: A Comprehensive Survey Study

Authors: Kareem Mahmoud Hassan tonbol, Aya Elbauomy, Shadi Alghaffari and Alessandro Farina

(Https://Doi.Org/10.3390/Futuretransp5010014)

Research Type: Journal

79. Climate-Resilient Zero Energy Buildings: Long-Term Modelling for Energy Efficiency and Renewables Impact

Author: Nada Youssef Ahmed Hassan Ahmed

(Https://Doi.Org/10.1016/J.Rineng.2025.106545)

Research Type: Journal

80. Decarbonization Potential of Alternative Fuels in Container Shipping: A Case Study of The Ever Alot Vessel

Authors: Mohamed Reda Elsayed Shouman and Mamdouh Ayman Mohamed

(Https://Doi.Org/10.3390/Environments12090306)

Research Type: Journal

81. Energy Demand forecasting Scenarios for Buildings Using Six Ai Models

Authors: Khaled Mohammed Mohammed Youssef Selim and Ahmed Omar Ahmed Mohamed Elgharib

(Https://Doi.Org/10.3390/App15158238)

Research Type: Journal

82. Energy Research in East Africa: A Bibliometric Analysis

Author: Mohamed Rady Ewis Daif

(Https://Doi.Org/10.1080/27658511.2025.2479888)

Research Type: Journal

83. Evaluating Urban Surface Materials: Albedo Optimization and Shading for Pedestrian Thermal Comfort in Hot-Arid Environments

Author: Tarek Mohamed Abdelhamid

(Https://Doi.Org/10.13189/Cea.2025.130616)

Research Type: Journal

84. Evolving Typical Meteorological Year (Tmy) Data for Building Energy Simulation: A Comprehensive Review of Methods, Challenges, and Future Directions

Author: Mohamed Rady Ewis Daif

(Https://Doi.Org/10.1080/17512549.2025.2457649)

Research Type: Journal

85. Examining The Historical Trend of Wind Turbine Maximum Capacity in Egypt

Authors: Ahmed Omar Ahmed Mohamed Elgharib, Mohamed Tarek Salah El Sayed and Mohammed Magdy Hamed Hussein Abdallah

(Https://Doi.Org/10.1038/S41598-025-24866-Z)

Research Type: Journal

86. Exploring The Impact of Window Design and Ventilation Strategies on Air Quality and Thermal Comfort in Arid Educational Buildings

Authors: Abdelaziz Farouk Abdelaziz Mohamed and Mai Mostafa Haseeb Mohamed

(Https://Doi.Org/10.1038/S41598-025-01362-Y)

Research Type: Journal

87. Exposed Population to Temperature Extremes in Mena in The Context of Paris Climate Agreement Temperature Goals

Authors: Mohammed Magdy Hamed Hussein Abdallah and Mohamed Salem Mohamed Nashwan
(Https://Doi.Org/10.1002/Joc.8778)
Research Type: Journal

88. Global Thermal Bioclimate indicators: Spatial Shifts and Temporal Changes
Authors: Mohamed Rady Ewis Daif and Mohammed Magdy Hamed Hussein Abdallah
(Https://Doi.Org/10.1007/S10584-025-03928-1)
Research Type: Journal

89. Palm Oil Quality Based on Free Fatty Acid Using Svm
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.29407/intensif.V9i2.24797)
Research Type: Journal

90. Renewable Energy in Shipping: Perceptions Among Egyptian Seafarers
Authors: Kareem Mahmoud Hassan tonbol and Adham Sayed Mohamed Turki
(Https://Doi.Org/10.3390/Futuretransp5040169)
Research Type: Journal

91. Rising Threats of Compound Droughts and Heatwaves in Mena: Implications for Population and Agriculture Under Paris Agreement Scenarios
Authors: Mohammed Magdy Hamed Hussein Abdallah and Mohamed Salem Mohamed Nashwan
(Https://Doi.Org/10.1007/S41748-025-00575-5)
Research Type: Journal

92. Spatial Variation of Building Energy Consumption in Egypt Based on High-Resolution Typical Meteorological Year Data
Authors: Mohamed Rady Ewis Daif and Mohammed Magdy Hamed Hussein Abdallah
(Https://Doi.Org/10.1016/J.Enbuild.2025.115553)
Research Type: Journal

93. The Ideal Flow-Based Multi-Model Ensemble Strategy for Projecting Future Runoff with Cmip6 Gcms
Author: Mohammed Magdy Hamed Hussein Abdallah
(Https://Doi.Org/10.1007/S11269-025-04302-7)
Research Type: Journal

94. The Impact of increasing Urban Surface Albedo on Outdoor Air and Surface Temperatures During Summer in Newly Developed Areas
Authors: Tarek Mohamed Abdelhamid and Osama Salah Eldin tolba
(Https://Doi.Org/10.1038/S41598-025-08574-2)
Research Type: Journal

95. Validation of Era5 Reanalysis Temperature Data Against in-Situ Observations: A Case Study of Alexandria Port, Egypt
Authors: Kareem Mahmoud Hassan tonbol, Mohamed Elbessa, Medhat Noreldin and Ahmed Khedr
(Https://Dx.Doi.Org/10.21608/Ejabf.2025.442683)
Research Type: Journal

COMPUTER SCIENCE AND ICT

96. A Comparative Analysis of Federated Learning for Multi-Class Breast Cancer Classification in Ultrasound Imaging

Authors: Rania Ahmed Kadry Abdelgawad Birry,Marwa Ali Mohamed Ali Elshenawy, Noha Seddik Abdelsalam Tawfik Abdelrahman, Salema Fathy Fayed Ismail, Noha Medhat Ahmed Ghatwary and Salema Fathy Fayed Ismail

(Https://Doi.Org/10.3390/Ai6120316)

Research Type: Journal

97. A Comparative Study Between Gan and Diffusion Models for Child Image Generation From Parents' Images

Author: Mohamed Mohib Abdelsattar

(Https://Doi.Org/10.1109/Iceeng64546.2025.11031350)

Research Type: Conference

98. A Deep Learning Approach to Gender Equality: forecasting Educational indicators with 1d-Cnn Aligned with Sdg 5

Author: Radwa Ahmed Osman

(Https://Doi.Org/10.1371/Journal.Pone.0332273)

Research Type: Journal

99. A Dual Enhanced Stochastic Gradient Descent Method with Dynamic Momentum and Step Size Adaptation for Improved Optimization Performance

Authors: Yasser Ahmed Dahab Mohamed, Mohamed Adel Mokhtar, Mohamed Fathy and Mohamed Adel Mohamed Mokhtar

(Https://Doi.Org/10.1038/S41598-025-24689-Y)

Research Type: Journal

100. A Framework for Enhancing The Quality of E-Learning Outcomes Using Artificial intelligence Techniques

Authors: Ghada Walid Ahmed, Aliaa Youssif and Ahmed Elseddawy

Research Type: Thesis

101. A Hybrid Lstm-Cnn Approach for Multimodal Sentiment Analysis: Combining Text and Image Features

Authors: Zannirah Muhammed Sammani and Mohamed Mohamed Abdelfattah Abourizka

(Https://Doi.Org/10.5120/Ijca2025925526)

Research Type: Journal

102. A Multimodal Polygraph Framework with Optimized Machine Learning for Robust Deception Detection

Author: Ahmed Mohamed Ibrahim Nabil Metwaly

(Https://Doi.Org/10.3390/inventions10060096)

Research Type: Journal

103. A Novel Proof-of-Reputation Blockchain Consensus Protocol for Iot Networks

Authors: Nagy Khairat Aly Hassan Abdelaal

Research Type: Thesis

104. Additive Protocol Layer (Apl) for The Communication Between Heterogeneous Machines

Authors: Mohamed Mohamed Abdelfattah Abourizka, Yousif Shawky Othman, Ehab Kamel Abousaif and Yasmine N. M. Saleh

(Https://Doi.Org/10.14445/22315381/Ijett-V73i1p129)

Research Type: Journal

105. Agile Gamification Risk Management Process: A Comprehensive Process for Identifying and Assessing Gamification Risks

Authors: Walid Moahmed Rabae Abdel Moaz, Fayrouz M. Elsalmy and Hany H. Ammar

(Https://Doi.Org/10.3390/Computers14020076)

Research Type: Journal

106. Agile Gamification Risk Management: A Comprehensive Process for Identifying and Assessing Risks

Author: Fairouz Moustafa Elwy Elsemy

Research Type: Thesis

107. An intelligent Framework for Improving Emergency Patients' Satisfaction Based on internet of Things (Iot)"

Author: Pakinam Alaa Abdallahmohamed Abdallah

Research Type: Thesis

108. An intelligent intrusion Detection Framework with Explainable Ai Capabilities

Author: Myada Mahmoud Shaban Mahmoud

Research Type: Thesis

109. Design and Development of Cost-Effective Humanoid Robots for Enhanced Human–Robot interaction

Authors: Khaled Mohammed Mohammed Youssef Selim, Ahmed Omar Ahmed Mohamed Elgharib and Mohamed Hamza Mokhtar Elmessmary

(Https://Doi.Org/10.3390/Automation6030041)

Research Type: Journal

110. Differential Privacy Using Federated Learning

Authors: Hadeel Abdelkareem and Abdelmoaty Saleh

Research Type: Thesis

111. Dvcs-Vit: Disaster Victim Classification System Using Vision Transformer

Authors: Mohamed Mohamed Abdelfattah Abourizka, Yousif Shawky Othman, Ehab Kamel Abousaif and Yasmine N.M. Saleh

(Https://Doi.Org/10.1109/Nrsc65659.2025.11018587)

Research Type: Conference

112. Ef-Strongsort: An Enhanced Feature Strongsort Model for Multi-Object Tracking

Authors: Mazen Mohamed Nabeel Alagamy, Sherine Nagy Moustafa Saleh and Noha Seddik Abdelsalam Tawfik Abdelrahman

(Https://Doi.Org/10.1109/Access.2025.3554706)

Research Type: Journal

113. Emoberta-X: Advanced Emotion Classifier with Multi-Head Attention and Des for Multilabel Emotion Classification

Authors: Sherine Nagy Moustafa Saleh, Mazen Elagamy, Farah Labib and Mazen Mohamed Nabeel Alagamy

(Https://Doi.Org/10.3390/Bdcc9020048)

Research Type: Journal

114. Enhancing A Building Change Detection Model in Remote Sensing Imagery for Encroachments and Construction on Government Lands in Egypt As A Case Study

Authors: Marwa Ali Mohamed Ali Elshenawy, Essam Mohamed Abd El Hamied Hassan and Sherin Moustafa Mohamed Yousse

(Https://Doi.Org/10.3390/App15179407)
Research Type: Journal

115. Enhancing E-Recruitment Recommendations Through Text Summarization Techniques
Authors: Nashwa Mamdouh Mohamed Elbendary and Walid Moahmed Rabae Abdel Moaz
(Https://Doi.Org/10.3390/info16040333)
Research Type: Journal

116. Enhancing Hydroponic Farming with Machine Learning: Growth Prediction and Anomaly Detection
Authors: Omar Shalash, Alia Mahmoud Mostafa Elhefny, Ahmed Mohamed Ibrahim Nabil Metwaly and Alia Elhefny
(Https://Doi.Org/10.1016/J.Engappai.2025.111214)
Research Type: Journal

117. Enhancing Spectral Efficiency Using A New Mimo Wpt-Noma System Based on Wavelet Packet Transform and Convolutional Complex Neural Network
Authors: Sherine Nagy Moustafa Saleh, Amira Zaky, Moustafa Hussien and Samar Farghaly
(Https://Doi.Org/10.1016/J.Phycom.2025.102617)
Research Type: Journal

118. Explainable Ai for Chronic Kidney Disease Prediction in Medical Iot: integrating Gans and Few-Shot Learning
Authors: Amgad Sayed Abdelmeged
(Https://Doi.Org/10.3390/Bioengineering12040356)
Research Type: Journal

119. Explainable Deep Learning for Covid-19 Vaccine Sentiment in Arabic Tweets Using Multi-Self-Attention Bilstm with Xlnet
Author: Nashwa Mamdouh Mohamed Elbendary
(Https://Doi.Org/10.3390/Bdcc9020037)
Research Type: Journal

120. Explainable Sentiment Analysis for Arabic Text
Author: Mohamed Salah Awad Allah Ahmed
Research Type: Thesis

121. Framework for intrusion Detection in Iot: integrating Deep Learning and Time Series Anomaly Detection Techniques
Authors: Emad Abdulmonem Kamel Alsmahie, Abdallah Elnamaky and Samir Sayed
(Https://Doi.Org/10.22266/Ijies2025.0831.25)
Research Type: Journal

122. Gv-Iriom: Gnss-Visual-Aided 4d Radar inertial Odometry and Mapping in Large-Scale Environments
Authors: Nashwa Mamdouh Mohamed Elbendary
(Https://Doi.Org/10.1016/J.Isprsjprs.2025.01.039)
Research Type: Journal

123. Hybrid Deep Transfer Learning and Adaptive Hidden Markov Models for Dna Binding Protein Identification
Author: Sara Saber Bauomy Elbagoury
Research Type: Thesis

124. Hyda-Net: A Hybrid Dense Attention Network for Remote Sensing Multi-Image Super-Resolution
Authors: Mohamed Ramzy Ibrahim Mahmoud, Robert

Benavente, Daniel Ponsa and Felipe Lumbreras
(Https://Doi.Org/10.1109/Jstars.2025.3547785)
Research Type: Journal

125. Improving Patients' Satisfaction Using Artificial intelligence Techniques
Author: Pakinam Alaa Abdallahmohamed Abdallah
Research Type: Journal

126. integrated Monitoring and Prediction Artificial intelligent Based Expert System: A Case Study on Hydroponics Strawberry Cultivation
Author: Marwa Ahmed Abdelhamied Ali Hassan
(Https://Doi.Org/10.1007/S44163-025-00717-8)
Research Type: Journal

127. integrating Artificial intelligence Techniques with E-Learning to Improve Student Quality Outcomes
Authors: Ghada Walid Ahmed, Aliaa Youssif and Ahmed Elseddawy
Research Type: Journal

128. integration of 2d-Cnn and Lstm Networks for Enhanced Image Processing and Prediction in Alzheimer's Disease
Authors: Aya Mohamed Abd El-Hamed and Mohamed Mohamed Abdelfattah Abourizka
(Https://Doi.Org/10.14569/Ijacsa.2025.0160621)
Research Type: Journal

129. intelligent Computer-Aided Systems for Breast Cancer Classification in Digital Breast tomosynthesis Scans
Author: Alaa Mohamed Adel Abdelrahman Elshazli
Research Type: Thesis

130. investigating The Factors That Lead to Mobile Government Application Acceptance: Extending Utaut2 with Technology Readiness
Author: Sherif Magdy Mohammed
(Https://Doi.Org/10.54878/Te7jy016)
Research Type: Journal

131. investigating The Impact of Technology Readiness on Citizens' Behavior intention towards Potential M-Government Solutions
Author: Sherif Magdy Mohammed
(Https://Doi.Org/10.54878/Y0pamb27)
Research Type: Journal

132. Kinship Generative Models: Generating Parent and Children Images Using Gan and Diffusion Conditional Models
Author: Mohamed Mohib Abdelsattar
Research Type: Thesis

133. Low-Complexity Joint Transmit Diversity and Adaptive Modulation Schemes for Ogs-Satellite Fso Uplink
Author: Mohammed Hassan Abdelazim
(Doi:10.1088/1742-6596/2616/1/012043)
Research Type: Journal

134. Mal-Xsel: Enhancing industrial Web Malware Detection with An Explainable Stacking Ensemble Model
Author: Amgad Sayed Abdelmeged

(Https://Doi.Org/10.3390/Pr13051329)
Research Type: Journal

135. Msae-Dl: Enhancing Breast Cancer Classification Through Hybrid Self-Attention integration, Feature Fusion, and Ensemble Classification in Digital Breast tomosynthesis
Author: Alaa Mohamed Adel Abdelrahman Elshazli
(Https://Doi.Org/10.1007/S00521-025-11192-8)
Research Type: Journal

136. Msd: Multi-Stage Deception for Data Privacy Protection
Authors: Moustafa Mohy Eldin Elserbeny and Tamer Abdellatif Ali Abdelaal
(Https://Doi.Org/10.1371/Journal.Pone.0323944)
Research Type: Journal

137. Oct-Cad: Eye Diseases Automated Deep Learning Diagnostic tool From Imbalanced Oct Scans
Author: Sagy Alaa Eldin Mahmoud
(Https://Doi.Org/10.1109/Itikd63574.2025.11004978)
Research Type: Conference

138. Optimizing Energy forecasting Using Ann and Rf Models for Hvac and Heating Predictions
Authors: Ahmed Omar Ahmed Mohamed Elgharib and Khaled Mohammed Mohammed Youssef Selim
(Https://Doi.Org/10.3390/App15126806)
Research Type: Journal

139. Optimizing Food Sme inventory Using A Deep Reinforcement Learning Framework
Author: Marwa Ahmed Mohamed
(/10.52783/Jisem.V10i37s.6374)
Research Type: Journal

140. Optimizing Shipping Line Selection: integrating Pls-Sem and Machine Learning in Freight forwarding
Author: Mohamed Arref Abd Allah Arfein
Research Type: Thesis

141. Over-The-top (Ott) Streaming Services Examination From Customers' Perception: The Case of Egypt
Author: Rehab Alla Fouad Bdrawy
Research Type: Journal

142. Retinal Optical Coherence tomography Scans Classification Using Deep Learning
Author: Sagy Alaa Eldin Mahmoud
Research Type: Thesis

143. Review of Antibody Structure Prediction-Based on Artificial intelligence
Author: Mohamed Abdelazim Shaheen Mohamed Elgamel
(Https://Doi.Org/10.1007/S11831-025-10404-7)
Research Type: Journal

144. Secure Hybrid Deep Learning for Mri-Based Brain Tumor Detection in Smart Medical Iot Systems
Author: Amgad Sayed Abdelmeged
(Https://Doi.Org/10.3390/Diagnostics15050639)
Research Type: Journal

145. Seizure Detection in Medical Iot: Hybrid Cnn-Lstm-Gru Model with Data Balancing and Xai integration
Author: Amgad Sayed Abdelmeged
(Https://Doi.Org/10.3390/A18020077)
Research Type: Journal

146. Smart and Secure Healthcare with Digital Twins: A Deep Dive into Blockchain, Federated Learning, and Future innovations
Author: Amgad Sayed Abdelmeged
(Https://Doi.Org/10.3390/A18070401)
Research Type: Journal

147. Variables Impacting E-Learning Acceptance Among instructors in Post Covid-19: Egypt-Centric Analysis
Authors: Rehab Alla Fouad Bdrawy and Hend Abdel Halim Hafez
(Https://Doi.Org/10.1080/08832323.2025.2478026)
Research Type: Journal

148. Xi2s-Ids: An Explainable intelligent 2-Stage intrusion Detection System
Author: Myada Mahmoud Shaban Mahmoud
(Https://Doi.Org/10.3390/Fi17010025)
Research Type: Journal

CONSTRUCTION AND ARCHITECTURE SCIENCE

149. A Comparative Analysis Between Wave and Solar Energy for Sustainability in Coastal Zones: Case Study Alexandria Port, Egypt
Author: Wael Aly Kamel
(Https://Doi.Org/10.21622/Marlog.2025.14.1.78)
Research Type: Conference

150. A Study of The Effects of Opening Sizes and Locations on Large-Span Prestressed Hollow Core Slab integrity
Author: Mohamed Ihab Sherif El Masry
(Https://Doi.Org/10.1016/J.Aej.2025.09.038)
Research Type: Journal

151. A Systematic Review of Residential Balconies' Environmental Performance in The Post Covid-19 Era: towards A Framework for Multi-Objective Optimization
Author: Sarah Ahmed Zaki
(Https://Doi.Org/10.1080/17452007.2025.2511687)
Research Type: Journal

152. Acoustic Performance and Sustainable Restoration in Historical Religious Buildings: A Review of Case Studies in The Last Decade
Authors: Abdelaziz Farouk Abdelaziz Mohamed and Gina Romel Sobhy
(Https://Doi.Org/10.1007/S43995-025-00218-W)
Research Type: Journal

153. Applying A Green Roof in An Educational Building in The Hot Arid Zone to Achieve Thermal Comfort
Author: Abdelaziz Farouk Abdelaziz Mohamed
(Https://Doi.Org/10.1007/S43995-025-00209-X)
Research Type: Journal

154. Architectural Discourse and Gender Analyzing Egyptian Women's Representation in Architectural and Engineering Periodicals in 20th Century Egypt
Author: Mai Mohamed Abu El-Dahab
(Https://Doi.Org/10.33422/Genderconf.V2i1.726)

Research Type: Conference

155. Architectural Façade Retrofitting of An Educational Building to Reduce Traffic-induced Noise Load
Author: Tarek Mohamed Abdelhamid
(Https://Doi.Org/10.13189/Cea.2025.130414)
Research Type: Journal

156. Artificial Islands As A Coastal Protection Strategy in The Suez Canal: A Numerical Modeling Approach
Author: Wael Aly Kamel
Research Type: Journal

157. Assessment of Land Cover Strategies for Lowering Outdoor Air Temperatures and Cooling Resilience in Partially Air-Conditioned Buildings in Hot-Arid Urban Areas
Authors: Mohamed Maher Rabie Lakosha and Tarek Mohamed Abdelhamid
(Https://Doi.Org/10.1016/J.Scs.2025.106762)
Research Type: Journal

158. Assessment of Temperature Levels on The Probability of Corrosion for Rc Decks Made of Various Percentages of Supplementary Cementitious Materials
Author: Mostafa Mohamed Hassan
(Https://Doi.Org/10.14445/23488352/Ijce-V12i11p104)
Research Type: Journal

159. Before The Final Demolition: An Alternative Reading for Al-Hattaba's Urban Decay Through Ruination Theories
Author: Ahmed Hamed El Antably
Research Type: Journal

160. Bim-integrated Life Cycle Assessment of Decentralized Cement-Based Waste Recycling in Renovation Projects
Author: Amar Zaki Mahgoub Younis
(Https://Doi.Org/10.1038/S41598-025-23173-X)
Research Type: Journal

161. Carbonation of Reinforced Concrete Sections Containing Various Supplementary Cementitious Materials: A Review
Author: Mostafa Mohamed Hassan
(Https://Doi.Org/10.30564/Jbms.V7i4.12144)
Research Type: Journal

162. Comparative Analysis of Modernist and Postmodernist Approaches to Urban Space
Author: Mohab Taher Abd Elfath Mohamed
(Https://Doi.Org/10.13189/Cea.2025.130537)
Research Type: Journal

163. Construction Payment Automation Through Scan-to-Bim and Blockchain-Enabled Smart Contract
Authors: Mohamed Saied Mohamed Eid, Hamdy Sharkawi, Emad Elbeltagi, Wael Alattyih and Hossam Wefki
(Https://Doi.Org/10.3390/Buildings15020213)
Research Type: Journal

164. Contingency Cost Modelling By Matlab Fuzzy toolbox for Natural Gas Maintenance Contracts
Author: Sameh Youssef Mahfouz Yaseen
(Https://Doi.Org/10.1680/Jfoen.25.00017)
Research Type: Journal

165. Curved Grid Connector for Concrete Sandwich Shell: A Continuum Approach

Author: Mostafa Yossef Abdullatief Yossef

(Https://Doi.Org/10.1016/J.Compstruct.2025.119361)

Research Type: Journal

166. Curved Truss Connector for Freeform Single-Curved Concrete Sandwich Shell: Analytical Model

Author: Mostafa Yossef Abdullatief Yossef

(Https://Doi.Org/10.1016/J.Engstruct.2025.119930)

Research Type: Journal

167. Deep Learning Enabled Computer Vision Model for Automated Safety Compliance in Construction Environments

Authors: Elbadr O. Elgendi, Hesham Ahmed Basyoni, Amr A. Mohy and Tarek M. Hassan

(Https://Doi.Org/10.36680/J.Itcon.2025.057)

Research Type: Journal

168. Dynamic Vertical Green Walls & Shading Systems integration to Enhance Energy Efficiency & Thermal Comfort: A Case of Educational Building Skin Retrofit in A Mediterranean City

Author: Nermine Aly Hany Hassan Aly Kora Bibar

(Https://Doi.Org/10.12688/F1000research.161965.1)

Research Type: Journal

169. Energy Efficiency and Economic Feasibility of Bio-Waste-Enhanced Clay Bricks in Hot-Arid Climates

Author: Rania Emad Abdelhady Ismail

(Https://Doi.Org/10.1186/S44147-025-00636-6)

Research Type: Journal

170. Enhancing Energy Efficiency in Tiny Houses: The Role of Sustainable Thermal insulation Materials in Faiyum, Egypt

Author: Nermine Aly Hany Hassan Aly Kora Bibar

(Https://Doi.Org/10.12688/F1000research.161897.1)

Research Type: Journal

171. Enhancing Strength and Sustainability of Concrete with Steel Slag Aggregate

Authors: Sameh Youssef Mahfouz Yaseen, Mohamed Rady Ewis Daif and Mahmoud Mohamed Mahmoud Kassem

(Https://Doi.Org/10.1038/S41598-025-01296-5)

Research Type: Journal

172. Evaluating Mycelium As An insulation Material: A Comparative Study on Thermal Performance, Comfort, and Energy Efficiency

Author: Nermine Aly Hany Hassan Aly Kora Bibar

(Https://Doi.Org/10.12688/F1000research.162989.1)

Research Type: Journal

173. Exploring The Impact of Window Design and Ventilation Strategies on Air Quality and Thermal Comfort in Arid Educational Buildings

Authors: Abdelaziz Farouk Abdelaziz Mohamed and Mai Mostafa Haseeb Mohamed

(Https://Doi.Org/10.1038/S41598-025-01362-Y)

Research Type: Journal

174. Finite Element Modeling for The Flexural Response of Notched Concrete Beams Enhanced with Steel and Carbon Fiber Reinforced Polymer Bars Under Cyclic Loading

Authors: Sameh Youssef Mahfouz Yaseen, Mohamed Rady Ewis Daif and Ahmed Bahgat Tawfik Ahmed
(Https://Doi.Org/10.1080/15376494.2025.2492311)
Research Type: Journal

175. Framework for A Circular Economy on Precast Concrete Curbs Containing Recycled Aggregates: Mechanical, Environmental, and Cost Viability
Author: Amar Zaki Mahgoub Younis
(Https://Doi.Org/10.1007/S10163-025-02261-0)
Research Type: Journal

176. Gamification in Architecture: Is Egypt's Real Estate Ready for interactive Design?
Author: Ahmed Hassan Mohamed
(Https://Doi.Org/10.1080/16874048.2025.2483494)
Research Type: Journal

177. Generation of Typical Weather Datasets for Daylight Simulations Using The Enhanced Simplified Sandia Method
Author: Mohammed Moustafa Mohammed Moustafa Ayoub
(Https://Doi.Org/10.1016/J.Jobe.2025.113223)
Research Type: Journal

178. Generative Design Optimization of Tree Distribution for Enhanced Thermal Comfort in Communal Spaces with Special Reference to Hot Arid Climates
Authors: Abdelaziz Farouk Abdelaziz Mohamed, Mai Mostafa Haseeb Mohamed and Ali Assem Mostafa Kamal
(Https://Doi.Org/10.1038/S41598-025-96763-4)
Research Type: Journal

179. Impact of Biophilic Classroom Design on Pupils' Creative Thinking, Perceived Stress and Place Attachment: A Quasi-Experiment in The Egyptian Context
Author: Marwa Hassan Mohamed Othman Khalil
(Https://Doi.Org/10.1108/Arch-04-2025-0156)
Research Type: Journal

180. Implications of Rapid Changes and Identity Transformation on Walkability in Heliopolis, Cairo, Egypt
Authors: Omar Mohamed Galal Mohamed Sayed Ahmed and Ayman Fathalla Basyouny Wanas
(Https://Doi.Org/10.1108/Arch-09-2024-0409)
Research Type: Journal

181. indoor Environmental Quality Assessment of Naturally-Ventilated School Classrooms within A Dense Arid Urban Setting of Cairo, Egypt
Authors: Tarek Mohamed Abdelhamid and Sherif Mohamed Nabil Ahmed Ezzeldin
(Https://Doi.Org/10.1038/S41598-025-98602-Y)
Research Type: Journal

182. influence of Various Crack Widths in Rc Bridge Decks on The initiation of Chloride-induced Corrosion
Author: Mostafa Mohamed Hassan
(Https://Doi.Org/10.3390/Jcs9050242)
Research Type: Journal

183. influence of Various Relative Humidity and Chloride Concentrations on Probability of Corrosion for Reinforced

Concrete Members: A Review
Author: Mostafa Mohamed Hassan
(Https://Doi.Org/10.37896/Htl31.12/128902)
Research Type: Journal

184. integrating Hydrodynamic Model to Address Longshore Sediment Transport Rate in The Bitter Lakes, Suez Canal -Egypt
Authors: Akram Soliman Mohamed Soliman and Wael Aly Kamel
(Https://Doi.Org/10.1007/S10236-025-01723-2)
Research Type: Journal

185. Macroeconomic-Aware forcasting of Construction Costs in Developing Countries: Using Gated Recrrent Unit and Long-Short Term Memory Deep Learning Framework
Authors: Akram Soltan Kotb, Majed Alzara, Alhussein Ibrahim Hilal, Ahmed Ehab Heba Abdou, and Nadeen Gihad
(Https://Doi. Org/10.1371/Journal.Pone.0333189)
Research Type: Journal

186. Modified Critical Chain Scheduling for Construction Projects
Author: Sameh Youssef Mahfouz Yaseen
(Https://Doi.Org/10.1080/16874048.2025.2459038)
Research Type: Journal

187. Multi-Cycle Development Scenarios: towards An Adaptive Reuse Strategy
Author: Yasmine Mohamed Abdelaziz
Research Type: Thesis

188. Paper Title: An Ahp-Based Framework for The Evaluation of Architectural Working Drawings
Author: Sarah Ahmed Zaki
Research Type: Journal

189. Real-Time Construction Safety Monitoring with Object Detection Algorithms: Features' Identification and Implementation Challenges
Authors: Hesham Ahmed Basyoni, Elbadr O. Elgendi, Amr A. Mohy and Tarek M. Hassan
(Https://Doi.Org/10.2478/Jaes-2025-0017)
Research Type: Journal

190. Revitalizing Giza Pyramids Context, Astronomical Approach for An Urban tourism Development Vision: (Giza Pyramids and Grand Egyptian Museum Zone)
Author: Mohamed Mosaad Mohamed Badawy Elshafie
(Https://Doi.Org/10.1007/S43995-025-00147-8)
Research Type: Journal

191. Rewriting Histories: The Experiences of Pioneering Egyptian Women Architects in The Socio-Political Context of The Nasser Era
Author: Mai Mohamed Abu El-Dahab
(Https://Vc.Bridgew.Edu/Jiws/Vol27/Iss2/2)
Research Type: Journal

192. Smart City in The Making : Assessing The New Administrative Capital of Egypt From Environmental inclusion Perspective
Author: May Abbas Abdelhalim Yehia
(Https://Doi.Org/10.70917/Fce-2025-038)
Research Type: Journal

193. Socio-Cultural Needs for Residents of Middle-Class Apartments in Aswan

Author: Sherif Mohamed Nabil Ahmed Ezzeldin

(Https://Doi.Org/10.1007/S43995-025-00243-9)

Research Type: Journal

194. Sponge Cities Framework for Achieving Ecological Development in Egyptian Cities

Author: Salma Tarek El-Sayed Mohammed Ali

(Https://Doi.Org/10.13189/Cea.2025.130404)

Research Type: Journal

195. Sustainable Production of New Jersey Barriers Using Recycled Concrete Aggregate

Authors: Essam El-Tehewy, Hassan Ahmed Hassan Ahmed and Nour Ahmed Mohamed Mohamed

(Https://Doi.Org/10.1680/Jinam.24.00040)

Research Type: Journal

196. The Exploration of Biophilic Design integration within Post- Pandemic interior Work Environments: A Matrix-Based Assessment

Authors: Nermine Aly Hany Hassan Aly Kora Bibar and Gihan Mossad Hannalla Abdelkodous

(Https://Doi.Org/10.12688/F1000research.166583.1)

Research Type: Journal

197. Thermally Efficient Clay Bricks incorporating Mushroomcultivation Waste for Sustainable Construction in Hot-Arid Climates

Author: Rania Emad Abdelhady Ismail

(Https://Doi.Org/10.21608/Jesaun.2025.376779.1482)

Research Type: Journal

198. Time-Cost Quality Risk Trade-off for infrastructure Projects in Egypt

Author: Sameh Youssef Mahfouz Yaseen

(Https://Doi.Org/10.1080/16874048.2025.2473774)

Research Type: Journal

199. toward Autonomous Pavement inspection: An End-to-End Vision-Based Framework for Pci Computation and Robotic Deployment

Authors: Mohamed Saied Mohamed Eid, Mohamed Refaat Zaki, Nada Eldesouky, Mohamed Ibrahim, Ahmed torky, Ahmed A. torky and Mohamed Elbheiri

(Https://Doi.Org/10.3390/Automation6040067)

Research Type: Journal

200. Transition to Circular Economy in Management of Construction and Demolition Waste in Building Sector

Author: Amar Zaki Mahgoub Younis

Research Type: Thesis

201. Ultra-Low-Cost Real-Time Precise Point Positioning Using Different Streams for Precise Positioning and Precipitable Water Vapor Retrieval Estimates

Author: Amgad Saifeldin Galal Abazeed

(Https://Doi.Org/10.3390/A18040198)

Research Type: Journal

202. Unearthing The Experience of Egyptian Women Architects in The Architectural Profession in Egypt From The Second Half of The 20th Century

Author: Mai Mohamed Abu El-Dahab

Research Type: Thesis

203. Vertical Urban Oases: An Approach for Urban Compaction
Author: Mohab Taher Abd Elfath Mohamed
Research Type: Thesis

204. Visionary Women's Mobility Behavior A tool for Women's inclusion in The Built Environment with Special Discourse on Riyadh City
Author: Shaimaa Samir Kamel Ashour
(Https://Doi.Org/10.3390/Su17125584)
Research Type: Journal

DENTISTRY

205. What Deep Learning Can (and Can't) See: A Systemic Review Assessing Applicability for Quantifying Qualities of Urban Vitality
Authors: Nancy Mostafa Abdelmoneim Mostafa and Aml Aly Abdo Amer
(Https://Doi.Org/10.1007/S43762-025-00226-5)
Research Type: Journal

206. Assessment of Accuracy of Scannability and The Effect of Surface Roughness on Polymethylmethacrylate intra-Oral Scan Body: in Vitro Study
Author: Zeyd Mohamed Ibrahim
(Https://Dx.Doi.Org/10.21608/Adjalexu.2025.342373.1568)
Research Type: Journal

207. Assessment of Dimensional Accuracy, Fracture toughness, Biaxial Flexural Strength, and Surface Roughness of Nanozeolite Reinforced 3d-Printed Denture Base Resin (in-Vitro Study)
Author: Omneya Hamdy Salem Ghabour
(Https://Doi.Org/10.1186/S12903-025-06142-8)
Research Type: Journal

208. Celecoxib Nanocrystals: An Adjuvant Therapeutic Nano Candidate for The Management of Oral Squamous Cell Carcinoma (An in Vitro Study)
Author: Amira Hossam Abdulrahman Mahmoud Alramady
Research Type: Thesis

209. Comparison of The Remineralization Effectiveness of Three Remineralizing Agents on Artificial Enamel Lesions: An in Vitro Study
Author: Maha Mohamed Shehata Mohamed Montaser
(Https://Doi.Org/10.1038/S41405-025-00330-Y)
Research Type: Journal

210. Effect of Botulinum toxin Type A on Masticatory Function and Musculoskeletal Structure in Rabbits
Authors: Maha Mohamed Shehata Mohamed Montaser, Ahmed Elsayed Abdelghani Ibrahim Shararah and Maha Montaser
(Https://Doi.Org/10.1038/S41598-025-97919-Y)
Research Type: Journal

211. Effects of High-Fat and Low-Calcium Diets on The Structure of Filiform and Fungiform tongue Papillae in Rats
Author: Maha Mohamed Shehata Mohamed Montaser
Research Type: Journal

212. Evaluation of 3d Printed Nano-Modified Resin Shear Bond Strength on Titanium Surfaces (An in-Vitro Study)

Authors: Noha Sabry Mohamed Abdulmoniem Elmallah and Dawlat Mostafa
Research Type: Journal

213. Evaluation of The influence of Implant Scan Body Surface Roughness on intraoral Scanning Accuracy: An in Vitro Study
Author: Polikarpos Memi Mahrous Athnasius
(Https://Dx.Doi.Org/10.21608/Adjalexu.2025.370107.1609)
Research Type: Journal

214. influence of Co2 Laser Irradiation Strategy on Titanium Surface Modification and Bacterial Biofilm Contamination: An in Vitro Study
Author: Mohamed Ibrahim Sherif Zidan
(Https://Doi.Org/10.21608/Adjalexu.2025.361248.1597)
Research Type: Journal

215. Prophylactic Effect of Nano Vitamin D3 Against Fatty Degeneration Caused By Calcium-Deficient Diet in Parotid Salivary Gland: A Histological and Ultrastructural Study
Authors: Dina Mohamed Mahdy Ahmed Osman and Maha Mohamed Shehata Mohamed Montaser
(Https://Doi.Org/10.1186/S12903-025-06618-7)
Research Type: Journal

ECONOMICS

216. Decarbonising Finland: The Impact of Renewable Energy, Environmental Trade Provisions, and Carbon Tax Policies on Co2 Emissions in Finland (1990–2022)
Author: Haidy Mohamed Amer Omar
Research Type: Journal

217. The Chinese Political and Economic Reforms to Combat Environmental Degradation in The Light of The "Green Theory"
Author: Nourhan tosson and Haidy Mohamed Amer Omar
(Https://Doi.Org/10.21608/Esalexu.2026.379184.1310)
Research Type: Journal

218. The Role of Artificial intelligence in Enhancing The Development of Sustainable Clean Hydrogen industries: A Case Study of Scatec Asa in Egypt.
Author: Hanan Alaa Eldin Abdel Sadek Gaffar
Research Type: Journal

219. Transport Logistics: Making The Most of Location
Author: Rasha Fouad Abd-El-Rahman
(Http://Dx.Doi.Org/10.21473/Iknito-Space/41896.)
Research Type: Journal

ELECTRICAL ENGINEERING

220. 18-Tupling System Leveraging Pso-Based Ml-Rcrf: Enhanced End-to-End Communication
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.1109/Jlt.2025.3604100)
Research Type: Journal

221. 1d-Cnn-Based Performance Prediction in Irs-Enabled Iot Networks for 6g Autonomous Vehicle Applications
Author: Radwa Ahmed Osman
(Https://Doi.Org/10.3390/Fi17090405)

Research Type: Journal

222. 5g Performance Enhancement Utilizing Adaboost Technique
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.37934/Ard.143.1.1020)
Research Type: Journal

223. A Compact Open Loop Resonator and Stub Resonator-Based Tri-Band Printed Bandpass Filter (Tbp-Bpf) for Utilizations in Modern Wireless Data Communication Systems
Author: Wael Abdelatif Ali Mohamed
Research Type: Journal

224. A Compact Ultra-Wideband Bandstop Filter Using Mu-Negative and Enz Metamaterial Resonators for Multiple Advanced Wireless Communication Systems
Author: Wael Abdelatif Ali Mohamed
(Https://Doi.Org/10.1371/Journal.Pone.0335521)
Research Type: Journal

225. A Co-Simulation Approach for Fault Detection in induction Motor Drive Systems Using Finite Element and Spectral Analysis
Authors: Hamdy Ahmed Abd Elkhlek, Mohamed M. Sedky, Ibrahim M. Gaber, Rania Assem Ibrahim, Hamdy Ashour, Mohamed Mostafa and Ibrahim Gaber
(Https://Doi.Org/10.1109/Iceeng64546.2025.11031271)
Research Type: Conference

226. A Deep Learning-Driven Cad for Breast Cancer Detection Via Thermograms: A Compact Multi-Architecture Feature Strategy
Author: Omneya Amr Gamal El Din
(Https://Doi.Org/10.3390/App15137181)
Research Type: Journal

227. A Feature-Enhanced Approach to Dissolved Gas Analysis for Power Transformer Health Prediction Through interpretable Ensemble Learning and Multi-Model Evaluation
Authors: Rania Assem Ibrahim and Ahmed Mohammed Hebala
(Https://Doi.Org/10.3390/Technologies14010006)
Research Type: Journal

228. A Genetic-Algorithm Enhanced Design of A Silicon-Photonics Wavelength Multiplexer/Demultiplexer Circuit
Author: Moustafa Hassan Abass Fedawy
(Https://Doi.Org/10.1049/Ote2.70008)
Research Type: Journal

229. A Holistic Analysis and Experimental Testing of A Passive Heat Path for Electric Motors Slots
Author: Ahmed Mohammed Ahmed Mohammed Hebala
(Https://Doi.Org/10.1109/Tte.2025.3537161)
Research Type: Journal

230. A Hybrid Ev Fast Charging Station
Author: Ibrahim Abdallah Mohammed
Research Type: Conference

231. A Lightweight Deep Learning Framework for Transformer Fault Diagnosis in Smart Grids Using Multiple Scale Cnn Features
Authors: Omneya Attalah, Rania Assem Ibrahim and Nahla Zakzouk

(Https://Doi.Org/10.1038/S41598-025-96290-2)
Research Type: Journal

232. A Low Pass/Band Pass Filter Transformation Using Lumped Capacitors and Dgs Configuration for Wireless Networks
Author: Wael Abdelatif Ali Mohamed
(Https://Link.Springer.Com/Article/10.1007/S10470-025-02496-9)
Research Type: Journal

233. A Novel Low-Complex Optimized Resource Allocation Algorithm Using Gwo Optimization Technique in Energy Scavenging for Wban
Author: Albashir Adel Youssef Mohamed
(Https://Doi.Org/10.3991/Ijoe.V21i06.53463)
Research Type: Journal

234. A Proposed Workflow to Fostering Academic Teaching Practices Using Generative Ai Chatbots: Marine Electrification As A Guide Course Example
Author: Hamdy Ahmed Abd Elkhlek
Research Type: Journal

235. A Robust Mppt Algorithm for Pv Systems Using Advanced Hill Climbing and Simulated Annealing Techniques
Authors: Ibrahim Abdallah Mohammed, Bader N. Alajmi, Nabil A. Ahmed and Mostafa I. Marei
(Https://Doi.Org/10.3390/Electronics14183644)
Research Type: Journal

236. A Simplified Current Source Converter Spwm online Mapping Scheme
Author: Ibrahim Abdallah Mohammed
(Https://Doi.Org/10.1109/Reepe63962.2025.10970832)
Research Type: Conference

237. A Smart Hybrid Optimization Model for Dsse in Renewable Energy-Powered Distribution Networks
Author: Mohamed Hamza Mokhtar Elmessmary
(Https://Dx.Doi.Org/10.21622/Resd.2025.11.2.1271)
Research Type: Journal

238. A Step-By-Step Framework Guide for Enhancing Engineering Academic Research Using Ai-Powered Chatbots
Author: Hamdy Ahmed Abd Elkhlek
Research Type: Journal

239. A Three-Phase totem-Pole Ac-Dc Converter Based off-Board Charger for Electric Vehicles
Author: Ibrahim Abdallah Mohammed
Research Type:Conference

240. A Universal, Communication-Free inductive Power Transfer System Achieving Uniform Voltage Gain for Electric Vehicle Charging
Author: Mostafa Saad Abdallah Hamad
(Https://Doi.Org/10.1109/Egrid63452.2025.11255006)
Research Type:Conference

241. An inference Spatiotemporal Machinery Prognostics Approach Based on Graph Learning
Authors: Iman Gamaleldin Abdelhamid Morsi and Omneya Amr Gamal El Din
(Https://Doi.Org/10.1109/Reepe63962.2025.10970932)

Research Type:Conference

242. An integrated topology of Bridgeless Converter with A Single inductor

Author: Ibrahim Abdallah Mohammed

(Https://Doi.Org/10.1016/J.Aej.2025.02.081)

Research Type: Journal

243. Bit-independent Criteria Evaluation of Custom S-Boxes: Enhanced Aes Encryption Security

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.14201/Adcaij.32318)

Research Type: Journal

244. Comparative Analysis of Energy Consumption and Performance Metrics in Fuel Cell, Battery, and Hybrid Electric Vehicles Under Varying Wind and Road Conditions

Authors: Ahmed Mohammed Hebala, Rania Assem Ibrahim and Mona Abdelkader

(Https://Doi.Org/10.3390/Technologies13040150)

Research Type: Journal

245. Comparative Evaluation of Lightweight Convolutional Neural Network and Vision Transformer Models for Multi-Class Brain Tumor Classification Using Merged Large Mri Datasets

Author: Omneya Amr Gamal El Din

(Https://Doi.Org/10.1016/J.Chemolab.2025.105609)

Research Type: Journal

246. Control Techniques for Variable Speed Wind Turbine Systems

Author: Ahmed Omar Ahmed Mohamed Elgharib

Research Type: Conference

247. Cross-Context Stress Detection: Evaluating Machine Learning Models on Heterogeneous Stress Scenarios Using Eeg Signals

Authors: Omneya Amr Gamal El Din and Ahmed Fathy Alkabbany

(Https://Doi.Org/10.3390/Ai6040079)

Research Type: Journal

248. Data-Driven Reinforcement Learning for Energy Management with Peer-to-Peer Trading and Demand-Side Management

Author: Amany Mohamed Hanafy Elzonkoly

(Doi: Https://Doi.Org/10.5455/Jjee.204-1736974366)

Research Type: Journal

249. Decision Tree Learning Algorithms for Wdm Systems' Performance Prediction

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1016/J.Optlastec.2025.114217)

Research Type: Journal

250. Deep Learning Based Repetition Coding for Mimo Vlc Systems

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1007/S11082-025-08317-7)

Research Type: Journal

251. Design and Optimization of Reconfigurable Antenna Systems for 5g, Rfid, and Uwb indoor Localization Applications

Author: Ali Ahmed Ibrahim Omar Lashin
Research Type:Thesis

252. Design of A Small Wind Turbine Emulator for Testing Power Converters Using Dspace 1104
Authors: Ammar Mostafa Hassan Ali Ammar, T. Boutabba , Idriss Benlaloui, F. Mechnane, I. M. Elzein, Alfian Ma'arif and Mohamed Metwally Mahmoud
(Http://Dx.Doi.Org/10.31763/Ijrcs.V5i2.1685)
Research Type: Journal

253. Designing An Soi interleaver Using Genetic Algorithm
Author: Moustafa Hassan Abass Fedawy
Research Type: Journal

254. Development of A Novel Platform for The Optimal Design, Sizing and Energy Management of Grid-integrated Hybrid Photovoltaic-Hydrogen Energy Systems
Author: Ayatte Ibrahim Ahmed Ibrahim Atteya
Research Type:Thesis

255. Dual Active Bridge-Based Emergency Mobile Ev Charging System: Control Strategies and Performance Analysis
Authors: Ibrahim Abdallah Mohammed, Kareem Nada and Mohammed Alhasheem
Research Type:Conference

256. Dynamic Optimization of Shared Storage for Renewable Driven Grids with insights From Egypt
Authors: Eman Hassan Shaban Beshr and Marwa Ahmed Abdelhamied Ali Hassan
(Https://Doi.Org/10.1038/S41598-025-32005-X)
Research Type: Journal

257. Economic and Technical Analysis of Hydrogen Production and Transport: A Case Study of Egypt
Authors: Marwa Ahmed Abdelhamied Ali Hassan and Noha Hany Yosseryel-Amary
(Https://Doi.Org/10.1038/S41598-025-91589-6)
Research Type: Journal

258. Eeg-Guided Evaluation of Vr Attention Training for Reducing Stress Responses Using Machine Learning
Author: Omneya Amr Gamal El Din
(Https://Doi.Org/10.1109/Miucc66482.2025.11196785)
Research Type:Conference

259. Endonet: A Multiscale Deep Learning Framework for Multiple Gastrointestinal Disease Classification Via Endoscopic Images
Author: Omneya Amr Gamal El Din
(Https://Doi.Org/10.3390/Diagnostics15162009)
Research Type: Journal

260. Energy-Efficient Communication Between Iomt Devices and Emergency Vehicles for Improved Patient Care
Author: Radwa Ahmed Osman
(Https://Doi.Org/10.1371/Journal.Pone.0330695)
Research Type: Journal

261. Energy-Efficient Iot-Based Tracking and Management System for Patients with Cognitive Diseases
Author: Radwa Ahmed Osman
(Https://Doi.Org/10.1016/J.Jnca.2025.104289)
Research Type: Journal

262. Enhanced Classification Prostate Cancer Based on Generative Adversarial Networks and integrated Deep Learning with Vision Transformer Models

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1038/S41598-025-31623-9)

Research Type: Journal

263. Enhanced Vulnerability Environment Resilience in Free Space Optical Communications: An Adaptive Optical Approach

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1364/Ao.571015)

Research Type: Journal

264. Enhancing Spectral Efficiency Using A New Mimo Wpt-Noma System Based on Wavelet Packet Transform and Convolutional Complex Neural Network

Authors: Sherine Nagy Moustafa Saleh, Amira Zaky, Moustafa Hussien and Samar Farghaly

(Https://Doi.Org/10.1016/J.Phycom.2025.102617)

Research Type: Journal

265. Enhancing Volte Quality Using Unsupervised Learning

Authors: Karim Ahmed Abdelrahman, Mina Gameel Saddeek Girgis, Mohamed Shehata and Safa M. Gasser

(Https://Doi.Org/10.37934/Ard.141.1.257271)

Research Type: Journal

266. Ev Charging Station with Ancillary Service for Power Quality Improvement in Low Voltage Distribution Network

Author: Ahmed Anass El Wogoud Helal

(Https://Doi.Org/10.1016/J.Epsr.2025.112503)

Research Type:

Journal

267. Evaluation of The Feasibility of Fso/Uav Communications in Neom Smart City

Authors: Ayshah S. Alatawi, Mohamed Raouf Bahgat Abaza, Albashir A. Youssef, Raed Mesleh and Fares S. Almehmadi

(Https://Doi.Org/10.1016/J.Rineng.2025.105256)

Research Type: Journal

268. Explainable Ai-Driven 1d-Cnn with Efficient Wireless Communication System integration for Multimodal Diabetes Prediction

Author: Radwa Ahmed Osman

(Https://Doi.Org/10.3390/Ai6100243)

Research Type: Journal

269. Gigabit Passive Optical Networks: Undetected Signal Tapping

Author: Moustafa Hussien Aly

Research Type: Journal

270. Grid-Tied Three-Port Converter for Enhanced Electric Vehicle Charging with Vehicle to Grid Capability

Author: Ibrahim Abdallah Mohammed

Research Type:Conference

271. Harnessing infrared Thermography and Multi-Convolutional Neural Networks for Early Breast Cancer Detection

Author: Omneya Amr Gamal El Din

(Https://Doi.Org/10.1038/S41598-025-09330-2)

Research Type: Journal

272. High Gain Quad-Port Circularly Polarized Aperture-Coupled Mimo Antenna

Author: Wael Abdelatif Ali Mohamed

(Https://Doi.Org/10.1038/S41598-025-19993-6)
Research Type: Journal

273. Highly-Sensitive Surface Plasmon Resonance Optical Sensor for Wide Detection Applications with Equivalent Transmission Line Circuit Analysis
Author: Moustafa Hussien Aly
Research Type: Journal

274. High-Performance Series-Fed Array Multiple-input Multiple-Output Antenna for Millimeter-Wave 5g Networks
Author: Sherif Abdallah Khalil Mohamed
(Https://Doi.Org/10.3390/S25041036)
Research Type: Journal

275. Hybrid Deep Learning Model for Automated Colorectal Cancer Detection Using Local and Global Feature Extraction
Author: Ishak Pacal and Omneya Amr Gamal El Din
(Https://Doi.Org/10.1016/J.Knosys.2025.113625)
Research Type: Journal

276. Impact of Magnification on Deep Learning Approaches Through Comprehensive Comparative Study of Histopathological Breast Cancer Classification
Author: Omneya Amr Gamal El Din
(Https://Doi.Org/10.1016/J.Bspc.2025.108973)
Research Type: Journal

277. Improved Channel Estimation for Underwater Wireless Optical Communication ofdm Systems By Combining Deep Learning and Machine Learning Models
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.1007/S11082-025-08090-7)
Research Type: Journal

278. Improving Bit Error Rate in Optical Wireless ofdm Systems Through Hybrid Companding and Precoding Strategies
Authors: Albashir Adel Youssef Mohamed, Mohamed Raouf Bahgat Abaza and Amal Yasser
(Https://Doi.Org/10.1186/S13638-025-02522-4)
Research Type: Journal

279. Improving The Spot Detection and Object Positioning Using Visible Light Communications and Artificial intelligence (Ai) Techniques
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.21608/Ijt.2025.433321.1137)
Research Type: Journal

280. Improving Weak Turbulence Free Space Optical Communication Links Using Generalized Low Density Codesy Parity Check
Author: Albashir Adel Youssef Mohamed
(Https://Doi.Org/10.1007/978-3-032-06757-9_5)
Research Type:Conference

281. inceptionnext-Transformer: A Novel Multi-Scale Deep Feature Learning Architecture for Multimodal Breast Cancer Diagnosis
Author: Ishak Pacal and Omneya Amr Gamal El Din
(Https://Doi.Org/10.1016/J.Bspc.2025.108116)
Research Type: Journal

282. incremental Deadbeat Predictive Current Control Strategy with Disturbance Observer for Pmsm Drive Systems Using Four-Leg inverters
Author: Mostafa Saad Abdallah Hamad
(Https://Doi.Org/10.1109/Tpel.2025.3589453)
Research Type: Journal

283. integrated Iot, Plc, and Vsd System for Enhancing Cooling tower Energy Consumption
Author: Hamdy Ahmed Abd Elkhlek
Research Type:Conference

284. intelligent 18-Tupling Optical Links: Pso-Tuned Ml for Predicting and Minimizing Signal Penalties
Authors: Heba A. Fayed, Ahmed Mohamed Ibrahim Nabil Metwaly and Moustafa Hussein
(Https://Doi.Org/10.1109/Jlt.2025.3604100)
Research Type: Journal

285. interleaved Multi-Port Non-Isolated Dc/Dc Converter for Green Hydrogen Production with Pv/Pem Electrolyzer System
Author: Ibrahim Abdallah Mohammed
Research Type:Conference

286. Low-Snr and Ber Reduction in Uwoc Systems Using Desn and Cnn-Tcn Deep Learning Models
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.1038/S41598-025-31837-X)
Research Type: Journal

287. Lung and Colon Cancer Classification Using Multiscale Deep Features integration of Compact Convolutional Neural Networks and Feature Selection
Author: Omneya Amr Gamal El Din
(Https://Doi.Org/10.3390/Technologies13020054)
Research Type: Journal

288. Machine Learning- Based Printed Lens Antenna with Graded- index Metasurface for Mmwave 5g Nr N261 Mobile Communication Applications
Author: Wael Abdelatif Ali Mohamed
(Https://Doi.Org/10.1002/Dac.70176)
Research Type: Journal

289. Machine Learning Data-Driven Fouling Diagnostics for Marine Engine Cooling Systems
Author: Mostafa Saad Abdallah Hamad
Research Type:Conference

290. Machine Learning-Based Channel Estimation for Visible Light Communication Mimo Angular Diversity Receiver Systems: Linear Regression and Supervised Neural Network
Author: Mohamed Raouf Bahgat Abaza
Research Type:Conference

291. Model-Free Adaptive Optics for Free Space Optical Communications: A Comprehensive Survey
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.1007/S12596-025-03011-Z)
Research Type: Journal

292. Modern Building Energy Management System Based on Artificial intelligence
Author: Moataz Mohamed Elsayed Amer

(Https://Doi.Org/10.1109/Irec64614.2025.10926755)
Research Type:Conference

293. Modular Flyback Converter for Green Hydrogen Production with Pv/Pem Electrolyzer System

Authors: Ibrahim Abdallah Mohammed, Amr A. Hassan and Mostafa I. Marei

Research Type:Conference

294. Multi-Domain Feature incorporation of Lightweight Convolutional Neural Networks and Handcrafted Features for Lung and Colon Cancer Diagnosis

Author: Omneya Amr Gamal El Din

(Https://Doi.Org/10.3390/Technologies13050173)

Research Type: Journal

295. Nanopore-Aware Embedded Detection for Mobile Dna Sequencing: A Viterbi–Hmm Design Versus Deep Learning Approaches

Authors: Karim Ahmed Abdelrahman, Zhongpan Wu, Ebrahim Ghafar-Zadeh and Sebastian Magierowski

(Https://Doi.Org/10.3390/Bios15090569)

Research Type: Journal

296. Natural Pigment Dyes As Eco-Friendly Sensitizers for Dye-Sensitized Solar Cells

Author: Ahmed Mohamed Mansour Khames Elshaer

(Https://Doi.Org/10.1007/S10854-025-15233-9)

Research Type: Journal

297. Next-Generation Uowc Enabling High-Speed and Secure Rgb Image Transmission Using Irsm-Ocdma with Pso-Based Image Enhancement

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1038/S41598-025-30710-1)

Research Type: Journal

298. Optical Fiber Dispersion Compensation: Supervised Machine Learning with Regression Approach

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1007/S11082-025-08169-1)

Research Type: Journal

299. Optimized Fisher Vector Codebook for foreground Features incorporating Transfer Learning Models in Human Action Recognition

Author: Mohamed Gamal Mohamed

Research Type:Thesis

300. Parameter Extraction of Pv Models Under Varying Meteorological Conditions Using A Modified Electric Eel foraging Optimization Algorithm

Authors: Sherif Abdallah Khalil Mohamed and Moataz Mohamed Salah

(Https://Doi.Org/10.1038/S41598-025-98270-Y)

Research Type: Journal

301. Performance Evaluation of Power Allocation and Diversity Combining Techniques for Noma-Mimo-Vlc Systems with Multi-User Pairing Algorithm

Authors: Mohamed Raouf Bahgat Abaza, Hesham S. Ibrahim, Ali Mansour and Ayman Alfalou

(Https://Doi.Org/10.1007/S11082-025-08395-7)

Research Type: Journal

302. Phase Shift Full Bridge Dc-Dc Converter with Active Clamping Circuit for Fuel Cell Electric Vehicles
Authors: Ibrahim Abdallah Mohammed, Bader N. Alajmi, Nabil A. Ahmed and Mostafa I. Marei
(Https://Doi.Org/10.1109/Access.2025.3571942)
Research Type: Journal

303. Polyaniline Nano-Material Backed Lens Antenna for X-Band Leo Satellite Transceivers
Author: Ahmed Mohamed Mansour Khames Elshaer
(Https://Www.Nature.Com/Articles/S41598-025-14270-Y#Citeas)
Research Type: Journal

304. Promoting Student Learning Activities Leveraging Generative Ai Chatbots:, A Competency-Based Guided Approach
Author: Hamdy Ahmed Abd Elkhlek
Research Type: Journal

305. Robofusion: A Hybrid Real and Synthetic Dataset Framework for intelligent Robotic Hazard Detection in industrial Environments
Author: Moustafa Hussien Aly
(Https://Doi.Org/10.1038/S41598-025-33603-5)
Research Type: Journal

306. Robosense: Real-World Dataset From Mobile and Fixed Sensors Suites for industrial Hazard Monitoring in Egypt
Author: Moustafa Hussien Aly
Research Type:Conference

307. Robust Free Space Optical Communication: Leveraging Hermite-Gaussian Modes and Derivative-Based Features
Author: Ahmed Mohamed Ibrahim Nabil Metwaly
(Https://Doi.Org/10.1109/Iccworkshops67674.2025.11162318)
Research Type:Conference

308. Scenario-Based Framework for National Energy Storage integration in Decarbonization Pathways
Author: Marwa Ahmed Abdelhamied Ali Hassan
(Https://Doi.Org/10.54337/Ijsepm.10125)
Research Type: Journal

309. Seasonal forecasting of The Hourly Electricity Demand Applying Machine and Deep Learning Algorithms Impact Analysis of Different Factors
Author: Noha Hany Yosseryel-Amary
(Https://Doi.Org/10.1038/S41598-025-91878-0)
Research Type: Journal

310. Self-Excited Wound Rotor Synchronous Motors for Electric Vehicles: Techniques and Multiphase Winding Design Strategies
Author: Mostafa Saad Abdallah Hamad
(Https://Doi.Org/10.1016/J.Aej.2025.02.105)
Research Type: Journal

311. Sensorless V/F Control with Arbitrary Power Sharing Capability for Six-Phase induction Machines in Hybrid Pv/Wind Water Pumping Systems
Author: Mostafa Saad Abdallah Hamad
(Https://Doi.Org/10.1109/Tec.2025.3615890)
Research Type: Journal

312. Sequencing on Silicon: Ai Soc Design for Mobile Genomics At The Edge

Authors: Karim Ahmed Abdelrahman, Sebastian Magierowski, Zhongpan Wu and Abel Beyene

(Https://Doi.Org/10.1109/Mwscas53549.2025.11244432)

Research Type:Conference

313. Slope of Sorted Fourier Magnitude Spectrum As A Feature for Detecting Artefacted Segments of Capnogram Signals

Author: Ismail Mohamed Ibrahim

(Https://Doi.Org/10.1109/Ece67147.2025.11276482)

Research Type:Conference

314. Spider Web topology-Based Reliable and Fault-Protected Hybrid Single-Mode Fiber/Free-Space Optical Access Network

Author: Moustafa Hussien Aly

(Https://Doi.Org/10.1117/1.Oe.64.10.105102)

Research Type: Journal

315. Sustainability-Driven Energy Management Strategies for Reducing Carbon Footprints in Higher Education

Authors: Mostafa Mohamed Mohamed Kaml Anwar, Mostafa Saad Abdallah Hamad and Ahmed Mohammed Ahmed Mohammed Hebala

(Https://Doi.Org/10.1016/J.Esd.2025.101783)

Research Type: Journal

316. Techniques of The intelligent Electronic Devices and Network Monitoring System in Smart Grid

Author: Mostafa Saad Abdallah Hamad

(Https://Doi.Org/10.1109/Itc-Egypt66095.2025.11186694)

Research Type:Conference

317. The Prediction of Pv Output Power Based on Dust, Materials' Accumulation and Partial Shadings By Using Fuzzy Logic Control

Author: Iman Gamaleldin Abdelhamid Morsi

(Https://Doi.Org/10.1016/J.Rineng.2025.105263)

Research Type: Journal

318. The Role of Artificial intelligence Technologies in Revolutionizing and Aiding Cardiovascular Medicine

Author: Omneya Amr Gamal El Din

(Https://Doi.Org/10.3389/Fcvm.2025.1588983)

Research Type: Journal

319. toward Better Semantic Segmentation By Retaining Spectral information Using Matched Wavelet Pooling

Authors: Ahmed Fathy Alkabbany, Said El-Khamy, Shaimaa Elbana and Hassan El-Ragal

(Https://Doi.Org/10.1007/S00521-025-11008-9)

Research Type: Journal

320. toward Grid-interactive and Low-Carbon Buildings: A Comparative Analysis of Artificial intelligence-Driven Optimization of Renewable Sizing and Demand-Side Control

Authors: Amany Mohamed Hanafy Elzonkoly and Rana Maher Mohamed Ahmad

(Https://Doi.Org/10.36922/Ijocta025460200)

Research Type: Journal

321. towards An Embedded Soc for Mobile Dna Sequencing Applications

Author: Karim Ahmed Abdelrahman

(Https://Doi.Org/10.1109/Tcbbio.2025.3602886)

Research Type: Journal

322. Voice Quality-Based Handover Strategies for Volte Networks

Authors: Karim Ahmed Abdelrahman, Amr Magdi Zakaria Hassaan, Mohamed Shehata and Mohamed S. El Mahallawy

(Https://Doi.Org/10.37934/Ard.142.1.220233)

Research Type: Journal

ENERGY

323. A Comprehensive Study on The Culture of Nearly Zero Energy Buildings in The Context of Climate Change

Author: Mohanad Mohamed Ahmed Ibrahim

Research Type:Thesis

324. A Hybrid Approach for Accurate Geothermal Temperature Prediction in The Western Region of Yemen

Author: Ghareb Moustafa Moustafa

(Https://Doi.Org/10.1016/J.Jafrearsci.2025.105777)

Research Type: Journal

325. A Lightweight Deep Learning Framework for Transformer Fault Diagnosis in Smart Grids Using Multiple Scale Cnn Features

Authors: Omneya Attalah, Rania Assem Ibrahim and Nahla Zakzouk

(Https://Doi.Org/10.1038/S41598-025-96290-2)

Research Type: Journal

326. A Novel integrated Approach to Heat Transfer Enhancement Using Baffles and inner Fins in Helical Coil Heat Exchangers

Authors: Mohamed Abdelmagied Hamied A. Hussin and Mina Atta Sobhy_X001a_ Saad

(Https://Doi.Org/10.1016/J.Csite.2025.107529)

Research Type: Journal

327. A Predictive Approach for Energy Efficiency and Emission Reduction in University Campuses

Authors: Khaled Mohammed Mohammed Youssef Selim and Ahmed Omar Ahmed Mohamed Elgharib

(Https://Doi.Org/10.3390/App15179419)

Research Type: Journal

328. Artificial intelligence Powered intelligent Energy Management Framework for Hydrogen Storage and Dispatch in Smart Microgrids

Author: Marwa Ahmed Abdelhamied Ali Hassan

(Https://Doi.Org/10.1038/S41598-025-24408-7)

Research Type: Journal

329. Boosting Energy Efficiency in Educational Buildings: The Role of Electrochromic Glazing and Ashrae Standard integration

Author: Micheal Alaa William Boules

(Https://Doi.Org/10.1063/5.0301695)

Research Type:Conference

330. Boosting H-Darrieus Vertical Axis Wind Turbine Performance: A Cfd investigation of J-Blade Aerodynamics

Authors: Micheal Alaa William Boules, Nour Ahmed Mohamed Mohamed and Iham Farid Wagdy Hassan Monib Zidane

(Https://Doi.Org/10.1016/J.Rineng.2025.106357)

Research Type: Journal

331. Comparative Analysis of Energy Consumption and Performance Metrics in Fuel Cell, Battery, and Hybrid Electric Vehicles Under Varying Wind and Road Conditions

Authors: Ahmed Mohammed Hebala, Rania Assem Ibrahim and Mona Abdelkader

(Https://Doi.Org/10.3390/Technologies13040151)

Research Type: Journal

332. Day-Ahead Weather and Load forecast Using Machine Learning: Comparative Analysis

Authors: Rania Assem Ibrahim, Nahla Zakzouk, Ahmed Abdelreheem and Abdelaziz Elwakil

(Https://Doi.Org/10.1109/Iceeng64546.2025.11031272)

Research Type:Conference

333. Design and Development of Cost-Effective Humanoid Robots for Enhanced Human–Robot interaction

Authors: Khaled Mohammed Mohammed Youssef Selim, Ahmed Omar Ahmed Mohamed Elgharib and Mohamed Hamza Mokhtar Elmessmary

(Https://Doi.Org/10.3390/Automation6030041)

Research Type: Journal

334. Dynamic Modeling for Optimal Subsurface Reservoir Fluid Mapping in Mature Oil Fields

Author: Ghareb Moustafa Moustafa

(Https://Doi.Org/10.31699/Ijcpe.2025.2.3)

Research Type: Journal

335. Dynamic Optimization of Shared Storage for Renewable Driven Grids with insights From Egypt

Authors: Eman Hassan Shaban Beshr and Marwa Ahmed Abdelhamied Ali Hassan

(Https://Doi.Org/10.1038/S41598-025-32005-X)

Research Type: Journal

336. Economic and Technical Analysis of Hydrogen Production and Transport: A Case Study of Egypt

Authors: Marwa Ahmed Abdelhamied Ali Hassan and Noha Hany Yosseryel-Amary

(Https://Doi.Org/10.1038/S41598-025-91589-6)

Research Type: Journal

337. Energy Demand forecasting Scenarios for Buildings Using Six Ai Models

Authors: Khaled Mohammed Mohammed Youssef Selim and Ahmed Omar Ahmed Mohamed Elgharib

(Https://Doi.Org/10.3390/App15158238)

Research Type: Journal

338. Examining The Historical Trend of Wind Turbine Maximum Capacity in Egypt

Authors: Ahmed Omar Ahmed Mohamed Elgharib, Mohamed Tarek Salah El Sayed and Mohammed Magdy Hamed Hussein Abdallah

(Https://Doi.Org/10.1038/S41598-025-24866-Z)

Research Type: Journal

339. Improved Productivity of Seawater Desalination Systems Through Humidification–Dehumidification Process integrated with Renewable and Fogging Technologies in A Lowest Cost

Authors: Aly Ismail Mohamed Shehata Mohamed, Ibrahim Nabil, Mohamed M. Khairat Dawood and Tamer M. Mansour

(Https://Doi.Org/10.1007/S13201-025-02446-W)
Research Type: Journal

340. integrated Renewable Energy Systems for Buildings: An Assessment of The Environmental and Socio-Economic Sustainability

Author: Ahmed Ramadan Ahmed Mohamed
(Https://Doi.Org/10.3390/Su17020656)
Research Type: Journal

341. investigation of An innovative Savonius Turbine in Practice

Authors: Hesham Elsayed Saber Elsayed Ahmed Awad, El Sayed Saber El Sayed Ahmed and Rola Samir Afify
(Https://Doi.Org/10.1038/S41598-025-88544-W)
Research Type:
Journal

342. Layout Optimization for offshore Wind Farms Construction in Egypt: Achieving Maximum Energy Efficiency

Author: Akram Soliman Mohamed Soliman
Research Type:Conference

343. Multifaceted Analytical and Computational Fluid Dynamics investigations of Vortex Tube Technology for The Optimization of Seawater Desalination Efficiency

Authors: Ahmed Essam Mohammed Mohammed Moustafa tourab, Aly Ismail Mohamed Shehata Mohamed, Mahmoud Salem and Mina Atta Sobhy
(Https://Doi.Org/10.1016/J.Rineng.2025.104004)
Research Type: Journal

344. Multi-Objective Optimization of A Modified integrated Solar Combined Cycle for Cogeneration of Electricity and Desalinated Water

Author: Sameh Mahmoud Abdelhamid Ibrahim Shaaban
Research Type: Journal

345. Numerical Study on Optimization of Wave Farm Layout Located on The Egyptian North Coast

Author: Rashad Mohamed Rashad Aref
Research Type:Thesis

346. Optimal integration of Wind Energy and Green Hydrogen Storage for Enhanced Grid Resilience

Author: Mostafa Saad Abdallah Hamad
(Https://Doi.Org/10.1007/S40998-025-00876-5)
Research Type: Journal

347. Optimizing Hybrid Solar-Wind Energy Systems for Green Buildings in Urban Environments

Authors: Miral Michel Moneer, Ahmed Magdy, Khalid Mowafy, Afaf Abd El-Salam, Martin Mourad Maher, Nour Mohamed Hassen, Nouf Mousad Elbarbary and Talat Mahmoud El-Balshy
Research Type:Conference

348. Optimizing Nzeb Performance: A Review of Design Strategies and Case Studies

Authors: Micheal Alaa William Boules, Ahmed Ahmed Hanafi Mahmoud and Mohanad Mohamed Ahmed Ibrahim
(Https://Doi.Org/10.1016/J.Rineng.2025.103950)
Research Type: Journal

349. Performance Analysis of A Sustainable Green Ammonia Production System Driven By A Solar Spectrum-Beam-Splitting Technology

Authors: Essam Mahrous Elgenady, Moustafa Ahmed Abdelhafiz Fouz and Mohamed Gamal Mahmoud

(Https://Doi.Org/10.1016/J.Ijhydene.2025.06.063)

Research Type: Journal

350. Performance, Economic, and Environmental Analyses of A Novel Spectrum-Beam-Splitting Solar-Driven Green Ammonia Production System

Author: Mohamed Gamal Mahmoud

(Https://Scholar.Google.Com.Eg/Citations?View_Op=List_Works&Hl=Ar&Hl=Ar&User=937e7wgaaaaj)

Research Type:Thesis

351. Sustainability-Driven Energy Management Strategies for Reducing Carbon Footprints in Higher Education

Authors: Mostafa Mohamed Mohamed Kaml Anwar, Mostafa Saad Abdallah Hamad and Ahmed Mohammed Ahmed Mohammed Hebala

(Https://Doi.Org/10.1016/J.Esd.2025.101783)

Research Type: Journal

352. Sustainable Seascapes: An in-Depth Analysis of Multigeneration Plants Utilizing Supercritical Zero Liquid Discharge Desalination and A Combined Cycle Power Plant

Author: Aly Ismail Mohamed Shehata Mohamed

(Https://Doi.Org/10.1016/J.Aej.2025.01.091)

Research Type: Journal

353. Techno-Economic Analysis of Hybrid Renewable Energy System for Rural Agricultural Areas

Authors: Rania Assem Ibrahim, Amany El-Zonkoly and Rawan A. Hafez

(Https://Doi.Org/10.1109/Reepe63962.2025.10971087)

Research Type:Conference

354. Techno-Economic Assessment of A Hybrid Renewable Energy System for Green Hydrogen and Ammonia Production in El Alamein City, Egypt

Author: Mostafa Saad Abdallah Hamad

(Https://Doi.Org/10.1109/Cpere65146.2025.11240019)

Research Type:Conference

355. Theoretical and Experimental Performance Analysis of Solar Parabolic Trough Concentrating System

Author: Karim Zaki Abdel Fatah

Research Type:Thesis

356. towards Accurate and Reliable Fault Diagnosis in Pv Systems: Techniques, Challenges, and Future Directions

Author: Mostafa Saad Abdallah Hamad

(Https://Doi.Org/10.1016/J.Psep.2025.107217)

Research Type: Journal

357. Unlocking Hybrid Solar Efficiency: Experimental integration of Aluminum Foam Fins and Nanofluids in Pvt Collectors

Authors: Nour Ahmed Mohamed Mohamed, Monaem Elmnifi, Duyun Tatyana Aleksandrovna, Ali F. Ali Fadiel Aly Ismail Mohamed Shehata Mohamed and Ahmed Abdelsalam Taha

(Https://Doi.Org/10.1016/J.Rineng.2025.108752)

Research Type: Journal

LITERATURE

358. Between Semiotics and Puzzle Narrative Structure: An Analytical Study of The Creation of Cognitive Dissonance on Zeller's The Father (2020)

Authors: Ahmed Ghazal and Sara Yehia Ali El-Mansy

(Https://Doi.Org/10.21608/Jwadi.2025.401406.1222)

Research Type: Journal

LOGISTIC SCIENCES

359. A Framework to Establish and Operate A Global Logistics Energy Hub

Author: Mahmoud Ahmed Abd Ellatif Hammad

Research Type:Thesis

360. An Empirical Study on The Determinants of Customers' intentions to Switch to Smart Lockers As A Trending Last-Mile Logistics Channel

Authors: Sandra Sami Gorge Haddad, Mona Magdy Elsemary and Nada Mohamed Eman Hussien Roshdy

(Https://Doi.Org/10.3390/Logistics9040177)

Research Type: Journal

361. Analyzing Supply Chain Dynamics to Enhance Their Environmental Performance in The Age of Emerging Technologies

Author: Samar Kamal Mohamed

Research Type:Thesis

362. Assessing industry 4.0 Adoption in Cairo Smes: A Study on Manufacturing Sector

Authors: Hussein Magdy Elhusseiny and Jose Crispm

(Https://Doi.Org/10.1080/0951192x.2025.2545481)

Research Type: Journal

363. Exploring Egyptian Consumers' Drive for Sustainable Purchases Through Financial Empowerment and Environmental Awareness: The Moderating Role of Demographic Characteristics

Authors: Sahr Sobhy Sabry El Barky and Mahmoud Ramadan Barakat, Ahmed Hussein Mahmoud Ali

(Https://Doi.Org/10.20900/Jsr20250010)

Research Type: Journal

364. investigating The Effect of Supply Chain Process on Corporate Performance of The Automotive Market-Egypt': Does Usd Unavailability Matters

Authors: Khaled Gaber Abdalla El Sakty, Moataz Kamel and Karim Soliman

(Https://Doi.Org/10.21608/Jces.2025.421005)

Research Type: Journal

365. Strategic Requirements for Establishing and Operating Global Energy Hubs

Authors: Mahmoud Ahmed Abd Ellatif Hammad, Sara Elgazzar and Marjan Sternad

(Https://Doi.Org/10.1177/21582440251400401)

Research Type: Journal

366. Sustainable Supply Chain Practices of Local Versus international Hotels: Multiple Case Studies in Egypt

Authors: Nazaré Rego and Mahmoud Ahmed Abdo Hamza

(Https://Doi.Org/10.1038/S41598-025-18819-9)

Research Type: Journal

367. The Adaptation of Green Transformation of The Agricultural Wastes to Improve The Manufacturers Supply Chain Performance: An Empirical Study in The Egyptian Context

Author: Saly Moustafa Kamel Moustafa Sanhory

Research Type: Journal

368. The Dynamics of Green Behaviour in Egypt and Jordan: Financial Attitude, Price Sensitivity and Greenwashing Effects

Author: Mahmoud and Eman Mohamed Adel Mahmoud Mohamed Elakkad

(Https://Doi.Org/10.3390/Su17167434)

Research Type: Journal

369. The Effect of Ai Chatbot Service Quality and Omnichannel Capabilities on Enhancing Customer Experience Using Supply Chain Resilience

Author: Ashrakat Osama Awed Abdelshafouk

Research Type:Thesis

370. The Impact of Digital Transformation on Operational Efficiency: A Case Study of Safaga Port

Authors: Khaled Gaber Abdalla El Sakty, Marwa Dieb and Mostafa Abdelhafez

(Https://10.21608/Acj.2025.450701)

Research Type: Journal

371. The Impact of Environmental Uncertainty on The Relationship Between Supply Chain Strategy and Marketing Performance in Home Appliances Companies in Egypt

Author: Sara Moustafa Koulousy

(Https://Doi.Org/10.21608/Ajccr.2025.350310.1143)

Research Type: Journal

372. The Impact of Functional and innovative Products on The Relationship Between Lean, Agile Supply Chain Strategy and Marketing Performance: An Applied Study on Home Appliance industry in Egypt

Author: Sara Moustafa Koulousy

(Https://Doi.Org/10.21608/Sjrbs.2025.391206.2017)

Research Type: Journal

373. The Impact of Supply Chain Management on The Performance of Ready-Mix Concrete Projects. A Case Study: Hassan Allam Ready-Mix Concrete in Egypt

Authors: Mahmoud Al-Shaarawy and Khaled Gaber Abdalla El Sakty

(Https://Doi.Org/10.21608/Jces.2025.436170)

Research Type: Journal

374. The Mediating Role of Supply Chain Transparency and Resilience in The Relationship Between Digital Twins and Sustainable Performance: Applied to The Egyptian Manufacturing industry

Author: Mohamed Gamil Mohamed Hassan

(Https://Doi.Org/10.21608/Acj.2025.450973)

Research Type: Journal

375. The Relationship Between Social Sustainability and Customer Relationships Management As A Determinant for Improving Competitiveness in Organizations Operating in The Oil and Gas Sector in Egypt.

Author: Nourhan Adel Ahmed Mohamed

Research Type: Journal

376. The Role of Green Supply Chain Practices As intermediate Variable in The Relationship Between Knowledge Management and Sustainable Performance of Private Business Sector Companies for The Pharmaceutical industries in Egypt

Author: Amr Mohamed El Saied Mohamed

Research Type:Thesis

377. The Role of Green Supply Chain Practices in Achieving Sustainable Performance: An Applied Study on Private Sector Pharmaceutical Companies in Egypt

Author: Amr Mohamed El Saied Mohamed

(Https://Doi.Org/10.21608/Alat.2025.457022)

Research Type: Journal

MANAGEMENT AND BUSINESS ADMINISTRATION

378. Ai Enabled Digital Marketing Strategies" for Egyptian Technology Based Startups

Author: Hebatalla Mostafa Abdelmoniem Elashry

Research Type:Thesis

379. Ai-Driven Learning: Evaluating The Role of Chatbots in Enhancing Student Motivation and Learning Outcomes

Authors: Hebat Allah Mamdouh Moustafa and Ghada Ashraf Mohammed

(Https://Doi.Org/10.1108/Jarhe-04-2025-0301)

Research Type: Journal

380. Ai-Enabled Digital Marketing in Startups: A Systematic Review of Global Practices and Egyptian Implementation Challenges

Author: Hebatalla Mostafa Abdelmoniem Elashry

(Https://Doi.Org/10.56632/Bct.2025.4105)

Research Type: Journal

381. An Examination of The Impact of Country-Level Determinants on Corporate Capital Structure: Evidence From G8 and Mena Countries

Author: Hussein Mowafak Hussein Sadek

Research Type:Thesis

382. An investigation on The Effect of Csr Advertising on Building Customer Satisfaction and Trust

Authors: Nada Adel Hanafi Mahmoud Attia and Heba Wagih El Mehelmi

(Https://Doi.Org/10.21608/Jsst.2025.417432.2108)

Research Type: Journal

383. Artificial intelligence in Laboratories: A Systematic Review of Existing Applications, Advantages, and Implementation Difficulties

Author: Mohamed Khamis Mohamed Aly Hassan

(0.54364/Aaiml.2025.52210)

Research Type: Journal

384. Auditor Opinion, Ifrs Adoption and Macro Determinants of Financial Distress

Author: Tarek Mohamed Abbas

(Https://Doi.Org/10.5430/Afr.V14n2p40)

Research Type: Journal

385. Blockchain Technology in Malaysian Agriculture: A Bibliometric and topic Modelling Analysis
Author: Ghada Ashraf Mohammed
(Https://Doi.Org/10.1109/Wids-Psu64963.2025.00033)
Research Type:Conference

386. Cash Holdings Impact on Firm investment Decisions: Evidence From Egypt, Uk and Usa
Author: Noha Saeed Lotfy El Berry
(Https://Doi.Org/10.1108/Jfra-09-2024-0669)
Research Type: Journal

387. Corporate Financing Choices and Dynamic Target Capital Structure Adjustment Behavior
Author: Yousra Mohamed Helmy
Research Type:Thesis

388. Determinants of Stochastic Distance-to-Default
Author: Ahmed Mohamed Ibrahim Dabour
(Https://Doi.Org/10.3390/Jrfm18020091)
Research Type: Journal

389. Determinants of Stock Repurchase: An Empirical Study on Egypt
Author: Doaa Mohamed Sameeh
(Https://Doi.Org/10.21608/Aja.2025.381694.1844)
Research Type: Journal

390. Developing Credit Score System in Egyptian Banks Using Expert Systems: Applied on Egyptian Listed Companies (Non-Financial Sectors)"
Author: Mohamed Nasser Abdel Aty
Research Type:Thesis

391. Global Airline's Financial Strain: Assessing Corporate Governance's Role
Author: Ahmed Mohamed Ibrahim Dabour
Research Type:Thesis

392. How Artificial intelligence (Ai) Readiness influences Academic Staff Retention: A Case From Higher Education (He) in Egypt
Author: Hend Abdel Halim Hafez
Research Type: Journal

393. Impact of Accounting Conservatism, Financial Reporting Quality, and Audit Committee Characteristics on The Voluntary Disclosure of Banks in Egypt
Author: Nevine Sobhy Abdelmajed
(Https://Doi.Org/10.21608/Jces.2025.459182)
Research Type: Journal

394. Impact of Operational Efficiency, Market Value, and Sustainable Financial Growth on Esg Disclosure in Egyptian Banks
Author: Nevine Sobhy Abdelmajed
(Https://Doi.Org/10.21608/Jsst.2025.415606.2103)
Research Type: Journal

395. Implementing Kaizen in Quality 4.0: A Framework for Medium-Sized Enterprises in Developing Countries for Waste Reduction

Author: Moustafa Hussien Aly
Research Type:Conference

396. institutional Quality and Sustainable Firm Growth
Author: Hady Omar Taha Ahmed Abozeid
(Https://Doi.Org/10.1002/Sd.3339)
Research Type: Journal

397. Leveraging Artificial intelligence for Predictive Customer Churn Modeling in Telecommunications: A Framework for Enhanced Customer Relationship Management
Author: Karim Abdelmaged Mohammed
(Https://Doi.Org/10.1038/S41598-025-30108-Z)
Research Type: Journal

398. Optimization of Fused Deposition Modelling (Fdm) Spline Quality Characteristics Using Plan Do Check Act (Pdca) and Taguchi
Author: Moustafa Hussien Aly
Research Type:Conference

399. Para-Social Relationships with Micro-Celebrity Endorsers: The Mediating Effect of Brand Credibility on The online Source Credibility-Purchase intention Relationship
Author: Nadine Raif Kaissar Dib
Research Type: Journal

400. Stochastic Uncertainty of institutional Quality and The Corporate Capital Structure in The G8 and Mena Countries
Author: Hussein Mowafak Hussein Sadek
(Https://Doi.Org/10.3390/Risks13060111)
Research Type: Journal

401. The Effect of Corporate Social Responsibility (Csr) Disclosure on Mena Islamic Bank's Performance: The Moderating Effect of Shariah Supervisory Board (Ssb)
Author: Nouran Elsaid Nabil Mohamed Zowied
Research Type:Thesis

402. The Effect of Corporate Social Responsibility on Financial Performance: An Empirical Study on The Egyptian Market
Author: Raid Mohamed Mahmoud Ismail
Research Type:Thesis

403. The Effect of Shariah Supervisory Board (Ssb) on Corporate Social Responsibility (Csr) Disclosure on Mena Islamic Banks
Author: Nouran Elsaid Nabil Mohamed Zowied
Research Type: Journal

404. The Impact of Ai-Powered Digital Marketing Strategies on The Performance of Technology-Based Startups in Egypt
Authors: Ahmed El Samadicy, Hazem Rasheeed and Hebatalla Mostafa Abdelmoniem Elashry
(10.21608/Jsst.2025.385559.2016)
Research Type: Journal

405. The Impact of Artificial intelligence Applications on The Effectiveness of Recruitment and Selection Processes on Telecommunication Enterprises
Authors: Ahmed Abdelsadek Mohamed Abdelaziz, Ahmed Bahgat El Seddawy and Nancy Rizk
Research Type: Journal

406. The Impact of Corporate Social Responsibility on Banks Performance: Empirical Evidence From Egypt
Author: Raid Mohamed Mahmoud Ismail
Research Type: Journal

407. The Impact of Mobile Applications' Attributes on The Consumers' Continuance Usage intention in The online Grocery Retail industry in Egypt: The Mediating Role of Customer Satisfaction
Author: Hassan Samy Hassan Hassan
Research Type:Thesis

408. The Impact of Organizational Culture As A Mediating Factor on The Relationship Between Artificial intelligence and Job Performance: A Case Study of The Federal Authority for Identity, Citizenship, Customs, and Ports Security
Author: Ghada Awad Hassan El-Kot
Research Type:Thesis

409. The Impact of Ownership Structure on Cash Holdings in The Egyptian-Listed Companies
Author: Aliaa Abdallah Tammam
(Https://Doi.Org/10.1186/S43093-025-00460-7)
Research Type: Journal

410. The Impact of Web-Based Augmented Reality on The Egyptian Consumers' Behavioral intention: The Mediating Roles of Cognitive and Affective Responses
Author: Mary Yosry William
Research Type:Thesis

411. The Moderating Effect of Country-Specific Variables on The Relationship Between Capital Structure and Its Drivers
Author: Yousra Mohamed Helmy
(Https://Doi.Org/10.21608/Ajccr.2025.349881.1142)
Research Type: Journal

412. The Moderating Role of Digital Competencies in The Relationship Between Ai Applications and The Effectiveness of Human Resource Management Functions in Telecommunication Enterprises
Authors: Ahmed Abdelsadek Mohamed Abdelaziz, Nancy Rizk and Ahmed Bahgat El Seddawy
Research Type:Thesis

413. The Power of Ai in Retail E-Commerce: What Drives online Customer Word-of-Mouth intention toward Ai-Powered Shopping Applications?
Authors: Ghada Ashraf Mohammed and Hebat Allah Mamdouh Moustafa
(Https://Doi.Org/10.1080/10447318.2025.2508910)
Research Type: Journal

414. The Role of Financial Constraints in Shaping Capital Structure Decisions: Evidence From Gcc Firm
Author: Yousra Mohamed Helmy
(Https://Doi.Org/10.21608/Jces.2025.420969)
Research Type: Journal

415. The Role of Web-Based Augmented Reality in Shaping Hedonic and Utilitarian Value: A Pathway to Enhancing Continuance intention in Digital Retail Environments
Author: Mary Yosry William

(Https://Doi.Org/10.21608/Jces.2025.457445)
Research Type: Journal

416. Understanding The Social Marketing Techniques to Improve Health Behaviours in Egypt
Author: Mona Mohamed Reda El Badry
(Https://Www.Doi.Org/10.56830/Ijams10202503)
Research Type: Journal

417. Using Expert System in Credit Scoring Analysis Applied Study on Egyptian Companies Listed in Egx-(Non-Financial Sectors)
Author: Mohamed Nasser Abdel Aty
(Https://Doi.Org/10.21608/Jces.2025.421321)
Research Type: Journal

418. Variables Impacting E-Learning Acceptance Among instructors in Post Covid-19: Egypt-Centric Analysis
Authors: Rehab Alla Fouad Bdrawy and Hend Abdel Halim Hafez
(Https://Doi.Org/10.1080/08832323.2025.2478026)
Research Type: Journal

419. A Comprehensive investigation into Full-Scale Characteristics Contributing to Seafarers' Psychological Security: Egyptian Seafarers As A Case Study
Author: Nader Safaa Shokry Fahim
Research Type: Journal

420. Advanced Fault Prediction in Marine Diesel Engines Through Machine Learning: A Multivariate Approach
Author: Miral Michel Moneer
Research Type:Thesis

421. Advancing Pipeline integrity: An Experimental investigation into Acoustic Emission Monitoring of Erosion-Corrosion Mechanisms
Authors: Ahmed Mohamed Abdelhamid Osman, Aly Ismail Mohamed Shehata Mohamed and Mohamed Fahmy Mohamed Shehadeh
(Https://Doi.Org/10.1016/J.Rineng.2025.108820)
Research Type: Journal

422. An integrated Analysis of Key Factors Causing Fires in High-Tier Containers on Ultra-Large Container Vessels
Authors: Alaa Mohamed Alsayed Ammar, Amr Moneer Ibrahim and Hesham Helal
Research Type:Thesis

423. Assessing Different Solutions for Controlling Fires on High Tiers Containers on Ultra Large Container Vessels
Author: Alaa Mohamed Alsayed Ammar
Research Type:Thesis

424. Enhancing The Fire Safety onboard Container Ship Cargo Area: A Barrier Analysis Method
Author: Loay Mostafa Aboud Aboud
(Https://Doi.Org/10.1080/09617353.2025.2584445)
Research Type: Journal

425. Environmental Impact of Irgarol 1051, A Biocide, on Marine Microalgae Metabolism: A Case Study of Chlorella Salina and Dunaliella Bardawil
Author: Mona Ibrahim Abd El Nabi Kaamoush
(Https://Doi.Org/10.3390/Jmse13040695)
Research Type: Journal

426. Evaluating The Impact of Ai tools on The Performance of Maritime Trainees in Meti

Author: Mohamed Hassan Mohamed Hassan

(Https://Doi.Org/10.59660/50706)

Research Type: Journal

427. Evaluation of Navigation officers Awareness in Ecdis Passage Planning and Watchkeeping

Author: Mostafa Mohamed Ahmed Hosny Mohamed

Research Type:Thesis

428. Extreme Weather Events in Jeddah (2000–2024) and Their Implications for Maritime Port Operations Under Global Climate Risk Frameworks

Authors: Kareem Mahmoud Hassan tonbol, Mohammad E. Gommosani, Shadi Alghaffari, Saleh Ghonaim and Rokaya Hassan

(Https://Doi.Org/10.1007/S00704-025-05953-7)

Research Type: Journal

429. Impact of Dietary Nano-Chitosan and Lead Exposure on Growth, Chemical Composition, Biochemical Parameters, and Histology in Thin-Lipped Mullet (Liza Ramada, Risso, 1826)

Author: Hayam Morsi Abo El Ella Morsi

(Https://Doi.Org/10.21608/Ejabf.2025.427849)

Research Type: Journal

430. Impact of Maritime and industrial Activities on Air Quality Along The Egyptian Mediterranean Coast Using Data Observation Techniques

Author: Mona Ibrahim Abd El Nabi Kaamoush

(Https://Doi.Org/10.1007/S41207-025-00803-4)

Research Type: Journal

431. Impacts of Work Stress on Crew Fatigue and Maritime Safety Concerning Hazardous Cargo Operations - A Comprehensive Review

Author: Alaa Mohamed Alsayed Ammar

Research Type: Journal

432. Improving Energy Harvesting in Flow-induced Vibrations of Multi-Cylinder Square Arrays with Vortex Generators

Authors: Amr Aly Hassan and Mohamed Ahmed Osama Mohamed Awadallah

(Https://Doi.Org/10.1016/J.Oceaneng.2025.121057)

Research Type: Journal

433. Numerical Analysis of Flow-induced Vibrations for Energy Harvesting in Multi-Cylinder Arrays

Author: Mohamed Ahmed Osama Mohamed Awadallah

(Https://Doi.Org/10.17185/Duepublico/84605)

Research Type:Thesis

434. Observing Air Quality in Egypt's Alexandria Port Based on The Consequences of The Covid-19 Lockdown

Author: Mona Ibrahim Abd El Nabi Kaamoush

(Https://Doi.Org/10.1007/S43621-025-01016-Z)

Research Type: Journal

435. Review of Port Generations Development Models: Addressing The Energy Transition Gap

Author: Ahmed Mohamed Ismail Mohamed Ismail

(Https://Doi.Org/10.1016/J.Nxsust.2025.100186)
Research Type: Journal

436. The Enhancing of Smart Containers in The Future of Egyptian Smart Ports

Author: Tamer M. Hashem Abd El Mohsen
Research Type:Thesis

437. The Feasibility of Utilizing Hydrogen Fuel Cells in Livestock Ships to Mitigate Greenhouse Gas Emissions

Author: Mamdouh Ayman Mohamed
(Doi: Https://Doi.Org/10.31413/Nat.V13i1.19281)
Research Type: Journal

438. towards Safe Maritime Decarbonization: Safety Barriers of Methanol Fuel

Authors: Ahmed Mohamed Ismail Mohamed Ismail, Mahmoud M. Attia Metwalli and Anas S. Alamoush
(Https://Doi.Org/10.3390/Su17114896)
Research Type: Journal

439. A Dynamic Hydroplaning Study: A Fluid–Structure interaction Model for Road Vehicle Tire Analysis

Authors: Ahmed Abdelsalam Taha, Hassan Anwar Elgamal, Mostafa Mahmoud Elsayed Mohamed and Mohamed Mahmoud Abo Elazm Shamseldin
(Https://Doi.Org/10.4271/15-18-03-0015)
Research Type: Journal

440. A Novel integrated Approach to Heat Transfer Enhancement Using Baffles and inner Fins in Helical Coil Heat Exchangers

Authors: Mohamed Abdelmagied Hamied A. Hussin and Mina Atta Sobhy_X001a_ Saad
(Https://Doi.Org/10.1016/J.Csite.2025.107529)
Research Type: Journal

441. A Novel Pvt System integrated with Semicircular Fins: Cfd-Based Analysis of Heat Dissipation and Energy Efficiency

Authors: Nour Ahmed Mohamed Mohamed, Mohammed El Hadi Attia, Abdelkrim Khelifa, Abd Elnaby Kabeel, Mohamed Fayed and Wael M. El-Maghlany
(Https://Doi.Org/10.1016/J.Applthermaleng.2025.127551)
Research Type: Journal

442. A Novel Sequential Approach Through Structural Enhancements for Designing A New Serrated Helical Heat Exchanger

Authors: Mina Atta Sobhy Saad and Mohamed Abdelmagied Hamied A. Hussin
(Https://Doi.Org/10.1016/J.Csite.2025.106006)
Research Type: Journal

443. A Study on Centrifugal Pump Performance Treating Different Fluids

Author: Rola Samir Afify
(Https://Doi.Org/10.24200/Sci.2025.62043.7614)
Research Type: Journal

444. Active/Robotic Capsule Endoscopy - A Review

Author: Yasmine Alaaeldine Hassan Khattab
(Https://Doi.Org/10.1016/J.Aej.2025.05.032)
Research Type: Journal

445. Additive Manufacturing of Functionally Graded Lattice Structures for Personalized Below-Knee Prosthetic Dampers
Author: Mahmoud Ahmed Mahmoud Elsayed Mahmoud
(Https://Doi.Org/10.1007/S10118-025-3460-1)
Research Type: Journal

446. Ai-Driven Trajectory Planning of Dentatron: A Compact 4-Dof Dental Robotic Manipulator
Author: Ahmed Abd Elatef
(Https://Doi.Org/10.3390/Biomimetics10120803)
Research Type: Journal

447. An Analytical Study on Centrifugal Pump Performance Under Different Rotational Speeds
Author: Rola Samir Afify
Research Type: Conference

448. Analysis of Multi-inlet Cyclone Separator Performance and Flow Patterns Using Cfd Simulations
Author: Ziad Ashraf Zaki Ahmed
Research Type: Thesis

449. Analyzing The Impact of Uncertain Parameters in Reverse Supply Chain Network Using Fuzzy Alpha-Cut Approa
Author: Wael Abbas Mahfouz Mohamed
Research Type: Conference

450. Assessing Hvac Airflow Modulation Strategies to Reduce Short-Term Aerosol Transmission in office Environments
Authors: Mahmoud Hosny Hasanien, Micheal Alaa William Boules, Ahmed Ahmed Hanafi Mahmoud, Amr Aly Hassan, Mahmoud Salem, Micheal William and Mina Saad
(Https://Doi.Org/10.1038/S41598-025-08394-4)
Research Type: Journal

451. Assessing The Efficacy of Airflow Modulation Techniques in Mitigating Aerosolized Transmission of Respiratory Viruses Through A Multidisciplinary Approach to Public Health interventions
Authors: Mina Atta, Ahmed Hanafy, Amr Aly Hassan, Michael William and Mahmoud Salem
Research Type: Journal

452. Attention Enhanced Cnn-Lstm Models for Sensor Based Human Activity Recognition: A Comparative Study
Author: Ahmed Abd Elatef
(Dx.Doi.Org/10.17683/Ijomam/Issue20.23)
Research Type: Journal

453. Attention-Enhanced Cnn-Lstm Models for Sensor-Based Human Activity Recognition: A Comparative Study
Author: Moustafa Rostom Ahmed Atia
(Https://Doi.Org/10.17683/Ijomam/Issue20)
Research Type: Journal

454. Boosting H-Darrieus Vertical Axis Wind Turbine Performance: A Cfd investigation of J-Blade Aerodynamics
Authors: Micheal Alaa William Boules, Nour Ahmed Mohamed Mohamed and Iham Farid Wagdy Hassan Monib Zidane
(Https://Doi.Org/10.1016/J.Rineng.2025.106358)
Research Type: Journal

455. Cfd-Based Optimization of An Axial Impulse Turbine for A Twin-Turbine topology of An Owc Wave Energy Converter
Author: Hossam Mohamed Abdul Hasieb Mohamed

(Https://Doi.Org/10.3390/Jmse13030487)
Research Type: Journal

456. Chemical Composition and Pulping of Fiber From Posidonia Oceanica

Author: Mohamed Taha Abdo Sayed
(Https://Doi.Org/10.1007/978-981-96-4546-6_2)
Research Type: Book Chapter

457. Comparative Experimental Study on The Performance of Single-Slope, Hemispherical, and Conical Solar Stills

Authors: Ishak Pacal, Nour Ahmed Mohamed Mohamed, Wael M. El-Maghlany, Mohammed El Hadi Attia, Abd Elnaby Kabeel, M.A. Elazab and Ammar Hidouri
(Https://Doi.Org/10.24425/Ather.2025.156590)
Research Type: Journal

458. Comparison of Control Systems and Optimization Strategies in integrated Solar Combined Cycle (Iscc) Power Plants

Author: Adham Mohamed Abdelhalim Abdelfattah Abdelrahman
Research Type: Thesis

459. Composite Hydraulic integration: A New Step toward Lightweight Hydraulic Robots

Author: Ahmed Abd Elatef
(Https://Doi.Org/10.37934/Mjcsm.16.1.150166)
Research Type: Journal

460. Crashworthiness of Additively Manufactured Crash Boxes: A Comparative Analysis of Fused Deposition Modeling (Fdm) Materials and Structural Configurations

Authors: Aly Ismail Mohamed Shehata Mohamed and Ahmed Abdelsalam Taha
(Https://Doi.Org/10.3390/Applmech6030052)
Research Type: Journal

461. Decarbonization Potential of Alternative Fuels in Container Shipping: A Case Study of The Ever Alot Vessel

Authors: Mohamed Reda Elsayed Shouman and Mamdouh Ayman Mohamed
(Https://Doi.Org/10.3390/Environments12090306)
Research Type: Journal

462. Design and Development of Cost-Effective Humanoid Robots for Enhanced Human–Robot interaction

Authors: Khaled Mohammed Mohammed Youssef Selim, Ahmed Omar Ahmed Mohamed Elgharib and Mohamed Hamza Mokhtar Elmessmary
(Https://Doi.Org/10.3390/Automation6030041)
Research Type: Journal

463. Designing Sustainable Reverse Supply Chain Network with Optimal Collection Points Locations

Authors: Wael Abbas Mahfouz Mohamed, Mahmoud Mostafa Mohamed El Ashwah and Tamer Ahmed Aly Aly Ismail
Research Type: Journal

464. Dynamics of Oscillating Turbulent Flow Over Coastal Buildings in Ports Using Ai Techniques

Authors: Miral Michel Moneer, Adham Eladly, Gerges Refaat, Shehab Mostafa, Belal Tarek, Mohamed Hussein Shokry, Mahmoud Ismail and Ibraheem Gamal
Research Type: Conference

465. Energy and Exergy Analysis for State-of-Art intercooled Gas Turbine injected Steam Ccpp

Author: Aly Ismail Mohamed Shehata Mohamed

(Doi:10.1088/1742-6596/3028/1/012005)

Research Type: Journal

466. Enhancing Efficiency and Sustainability: A Comparative Analysis of Refrigerants in Ethylene Bog Re-Liquefaction Processes

Authors: Ahmed Ahmed Hanafi Mahmoud and Sameh Tawfik Abd El Fatah

(Https://Doi.Org/10.1186/S44147-025-00760-3)

Research Type: Journal

467. Enhancing Freshwater Yield in Conical Solar Stills Utilizing External Reflective Mirrors: An Experimental Approach

Author: Nour Ahmed Mohamed Mohamed

(Https://Doi.Org/10.1016/J.Solener.2025.113287)

Research Type: Journal

468. Experimental Analysis of Performance and Emission Characteristics of Hho-Lpg Dual Fuel Additives for Gasoline Engines

Authors: Mohamed Taha Abdo Sayed and Aly Hassan Abdalla Abdelbaky Batran, Mohamed Taha Abdo Sayed

(Https://Www.Sciencedirect.Com/Science/Article/Abs/Pii/S0360319925051213)

Research Type: Journal

469. Experimental and Numerical investigation of Solar Chimney Prototype

Author: Rola Samir Afify

Research Type: Conference

470. Experimental and Numerical Study of A Water-Water Ejector

Author: Rola Samir Afify

(Https://Doi.Org/10.1007/S43995-025-00183-4)

Research Type: Journal

471. Experimental Evaluation and Characterization of Semi-Active Dampers for Electric Vehicles Suspension

Author: Haytham Morad Mahmoud

Research Type: Conference

472. Finite Element Analysis of Lateral Pressure Variations in Square Steel Silos Considering Parametric Impacts

Author: Elhussein Ibrahim Hilal

(Https://Doi.Org/10.1038/S41598-025-20867-0)

Research Type: Journal

473. investigation of An innovative Savonius Turbine in Practice

Authors: Hesham Elsayed Saber Elsayed Ahmed Awad, El Sayed Saber El Sayed Ahmed and Rola Samir Afify

(Https://Doi.Org/10.1038/S41598-025-88544-W)

Research Type: Journal

474. Labour Diagnostics Using The intrauterine Pressure Through Sound Waves Emitted By A Smartphone

Authors: Mahmoud Ahmed Mahmoud Elsayed Mahmoud and Ahmed Mohamed Abdelhamid Osman

(Https://Doi.Org/10.1007/S11517-025-03305-1)

Research Type: Journal

475. Lower Limb Activity Classification with Electromyography and inertial Measurement Unit Sensors Using A Temporal Convolutional Neural Network on An Experimental Dataset

Author: Ahmed Abd Elatef

(Https://Doi.Org/10.3390/Asi9010013)

Research Type: Journal

476. Multifaceted Analytical and Computational Fluid Dynamics investigations of Vortex Tube Technology for The Optimization of Seawater Desalination Efficiency

Authors: Ahmed Essam Mohammed Mohammed Moustafa tourab, Aly Ismail Mohamed Shehata Mohamed, Mahmoud Salem and _X001a__X001a_Mina Atta Sobhy_X001a_ Saad

(Https://Doi.Org/10.1016/J.Rineng.2025.104004)

Research Type: Journal

477. New Framework for Human Activity Recognition for Wearable Gait Rehabilitation Systems

Authors: Ahmed Abd Elatef, Hanady Husain Abdelkader and Mohamed Atef Abd El Moniem

(Https://Doi.Org/10.3390/Asi8020053)

Research Type: Journal

478. Novel Ethylene Boil-off Re-Liquefaction Utilizing Absorption-Ejector Cycle: Exergy and Economic Analysis

Authors: Sameh Tawfik Abd El Fatah and Ahmed Ahmed Hanafi Mahmoud

(Https://Doi.Org/10.1016/J.Seppur.2025.136270)

Research Type: Journal

479. Numerical and Experimental Study for Orifice Plate Using Water and Nano-Fluids

Author: Rola Samir Afify

(Https://Doi.Org/10.1109/Icmisi65108.2025.11115536)

Research Type: Conference

480. Optimization of Time and Energy in Straight one-Sided Robotic Assembly Lines

Authors: Raghda Bahaaeldin Taha Mohammed, Rehab Seif Elmolouk and Amin M. K. El-Kharbotly

(Https://Doi.Org/10.1038/S41598-025-94202-Y)

Research Type: Journal

481. Performance Enhancement of Marine Lng Bog Re-Liquefaction Systems Via Passive Diffuser integration: A Thermodynamic and Economic Assessment

Authors: Sameh Tawfik Abd El Fatah and Yehia Abd El Moneam Ahmed El Dreeny

(Https://Doi.Org/10.1186/S44147-025-00733-6)

Research Type: Journal

482. Preparation and Characterization of Cellulosic Derivatives

Author: Mohamed Taha Abdo Sayed

(Https://Doi.Org/10.1007/978-981-96-4546-6_6)

Research Type: Book Chapter

483. Recent Developments in Additively Manufactured Crash Boxes: Geometric Design innovations, Material Behavior, and Manufacturing Techniques

Authors: Ahmed Abdelsalam Taha, Ahmed Saber, H. A. El-Gamal, A. M. Amer and Aly Ismail Mohamed Shehata Mohamed

(Https://Doi.Org/10.3390/App15137080)

Research Type: Journal

484. Semi Analytical Solution of Mhd and Heat Transfer of Couple Stress Fluid Over A Stretching Sheet with Radiation in Porous Medium

Authors: Wael Abbas Mahfouz Mohamed and Mohamed Khairy Ahmed Hussin

(Doi:10.32604/Fhmt.2025.069711)

Research Type: Journal

485. Sustainable Bio-Nanocomposite From Lignocellulose Nanofibers and Hdpe for Knee Biomechanics: A Tribological and Mechanical Properties Study

Authors: Mohamed Fahmy Mohamed Shehadeh and Mohamed Taha Abdo Sayed

(Https://Doi.Org/10.1515/Eng-2025-0126)

Research Type: Journal

486. Sustainable Seascapes: An in-Depth Analysis of Multigeneration Plants Utilizing Supercritical Zero Liquid Discharge Desalination and A Combined Cycle Power Plant

Authors: Essam El-Tehewy, Hassan Ahmed Hassan Ahmed and Nour Ahmed Mohamed Mohamed

(Https://Doi.Org/10.1016/J.Aej.2025.01.091)

Research Type: Journal

487. The Brain Networks indices Associated with The Human Perception of Comfort in Static force Exertion Tasks

488. Author: Lina Essam Elsherif Mohamed Ismail

(Https://Doi.Org/10.3389/Fnrgo.2025.1542393)

Research Type: Journal

489. The Effect of Axial Geometrical Variations on The Steady State Characteristics of Oil Lubricated Journal Bearings Using Titanium Dioxide Nanoparticles As Lubricant Additives

Authors: El Sayed Saber El Sayed Ahmed and Khaled Mahmoud Mohamrd Abdou

(Https://Doi.Org/10.1038/S41598-025-97948-7)

Research Type: Journal

490. Thermophoresis of A Spherical Particle Straddling A Flat interface in A Brinkman Medium At A 90◦ Contact Angle

Authors: Mohamed Magdy Elsaied and Samar Ahmed Mahrous

(Https://Doi.Org/10.1016/J.Euromechflu.2025.204441)

Research Type: Journal

491. Trade-offs in Robotic Assembly Line Balancing: investigating Cycle Time, Energy Consumption, and Efficiency Through Mathematical Optimization

Author: Raghda Bahaaeldin Taha Mohammed

(Https://Doi.Org/10.46254/Af6.20250209)

Research Type: Conference

492. Unlocking Hybrid Solar Efficiency: Experimental integration of Aluminum Foam Fins and Nanofluids in Pvt Collectors

Authors: Nour Ahmed Mohamed Mohamed, Monaem Elmnifi, Duyun Tatyana Aleksandrovna, Ali F. Ali Fadiel Aly Ismail Mohamed Shehata Mohamed and Ahmed Abdelsalam Taha

(Https://Doi.Org/10.1016/J.Rineng.2025.108751)

Research Type: Journal

MEDICINE

493. Adipose Tissue- Derived Mesenchymal Stem Cells Versus Puerarin for Ameliorating Nicotine- induced Pancreatic Fibrosis in Rats

Author: Soha Farouk Fahim Elatrebi
(10.1016/J.Tice.2025.103295)
Research Type: Journal

494. Anti-Protozoal Potential of Electrospun Polymeric Nanofiber Composite Membranes for Treatment of Contaminated Drinking Water

Authors: Yasmine Amr Ali Ahmed, Thanaa Ibrahim Shalaby, Maha Reda Gaafar, Rasha Fadly Mady, Nermine Mogahed Fawzy Hussein Mogahed, Sherifa Mohamed Korayem and Nehal Nassef Hezema
(Https://Doi.Org/10.1080/20477724.2025.2460006)
Research Type: Journal

495. Design, Synthesis and Cytotoxic Research of A Novel Antitumor Model Based on Acrylamide–Paba Analogs Via B-Tubulin inhibition

Author: Potros Yossef Gab Allah
(Https://Doi.Org/10.1039/D5ra02384j)
Research Type: Journal

496. Evaluation of Central Pedicle Reduction Technique As A Therapeutic Option in Breast Cancer Females with Ptotic Breast

Authors: Mahmoud Osama Shalaby, Ahmed Mahmoud Eldamati, Tarek Abdelhalim Elfayoumi and Ahmed Tarek Fouad Awad
Research Type: Thesis

497. Prevalence, Risk Factors, Quality of Life, and Awareness of Masld Among Egyptian University Students: A Cross-Sectional Study

Author: Hanaa Mahmoud Nagdy Ebrahim
Research Type: Journal

498. Skin-Reducing Mastectomy and Direct-to-Implant Breast Reconstruction without Mesh: A Singleinstitute Experience

Authors: Mahmoud Osama Shalaby, Ahmed Elsayed Abdelmageed, Mahmoud Ahmed Alhussini and Ahmed Tarek Fouad Awad
(Https://Doi.Org/10.7759/Cureus.81417)
Research Type: Journal

NANO SCIENCE AND NANO TECHNOLOGY

499. Ai-Driven insights into Lipid Nanocapsules of Vitamin D3 for Combatting Microbial Biofilm

Author: Dina Mohamed Mahdy Ahmed Osman
(Https://Doi.Org/10.1109/Icmisi65108.2025.11115409)
Research Type: Conference

500. Bromelain-Functionalized Omega-3 Nanocarriers for Targeted Icariin Delivery: A Multifunctional Shield for Cardiac Repair in Doxorubicininduced injury

Author: Nermeen Hesham Kamal Eldin
(Https://Doi.Org/10.1007/S10856-025-06915-1)
Research Type: Journal

501. Efficient Removal Performance of Polystyrene Microplastics From Strongly Acidic Solutions By Two Functionalized Nanosized Biochars Derived From Low-Cost Sustainable Sources

Author: Sif Edin Mohamed Alsayed
(Https://Doi.Org/10.1016/J.Scitotenv.2025.178892)
Research Type: Journal

502. Evaluating Machine Learning Models for Predicting The Storage Performance of Polypyrrole-Based Supercapacitor Electrodes
Author: Ahmed Mohamed Mansour Khames Elshaer
(Https://Doi.Org/10.1016/J.Est.2025.118943)
Research Type: Journal

503. Hdl and Ldl-Bioinspired Nanocarriers in Acellular Targeted Delivery of Icariin for Cardiac Repair Post Myocardial infarction
Author: Nermeen Hesham Kamal Eldin
Research Type: Journal

504. High-Performance Flame Retardants: Mxenes and Other 2d inorganic Additives for Polymers
Author: Mohamed Khamis Mohamed Aly Hassan
(Https://Doi.Org/10.1002/Vnl.70015)
Research Type: Journal

505. Improving The Consolidating Efficiency of Acrylic Polymers By incorporating Silica and Calcium Carbonate Nanoparticles: A Case Study on Fired Bricks At The Ibn Tulun Aqueduct, Egypt
Author: Mahmoud Abd Elhafez Mohamed Adam
(Https://Doi.Org/10.21608/Ejchem.2025.396868.11947)
Research Type: Journal

506. Machine Learning Model of Polypyrrole Based-Supercapacitor Electrode: Fabrication, Characterization, and Prediction
Author: Ahmed Mohamed Mansour Khames Elshaer
(Https://Doi.Org/10.1016/J.Jallcom.2025.179240)
Research Type: Journal

507. Mechanical Properties of Hardened Geopolymer Concrete Mixes including Nano Particles: A Comprehensive Review
Author: Mostafa Mohamed Hassan
(Https://Doi.Org/10.35940/Ijrte.D8299.14030925)
Research Type: Journal

508. Synthesis and Characterization of Hematite Nanomaterials Imprinted with Acetone, Ethanol and Methanol for Ai-Based Iot Gas Sensor Arrays
Author: Iman Gamaleldin Abdelhamid Morsi
(Https://Doi.Org/10.1038/S41598-025-06724-0)
Research Type: Journal

PHARAMCY

509. Alogliptin Repositioning Confers Protection Against Diclofenac-induced Liver injury By inhibiting Tlr4/Nf-κb, Ros/Txnip, and Nlrp3 inflammasome-Mediated Pyroptosis in Rats
Authors: Mohamed Hemdan Mohamed and Yosra Yehya Ahmed Morsi
(Https://Doi.Org/10.1007/S00210-025-04666-Y.)
Research Type: Journal

510. Antibacterial and Anti-Virulence Activity of Eco-Friendly Resveratrol-Loaded Lipid Nanocapsules Against Methicillin-Resistant Staphylococcus Aureus
Author: Dina Mohamed Mahdy Ahmed Osman
(Https://Doi.Org/10.1038/S41598-025-95343-W)
Research Type: Journal

511. Bioactive-Rich Mangifera indica Leaf Extracts Alleviate inflammation, Pain, and Fever Via Suppression of Pro-inflammatory Cytokines and Activation of Nrf2 Pathways
Author: Amira Roshedy Mohamed Khattab
(Https://Doi.Org/10.1016/J.Tice.2025.103237)
Research Type: Journal

512. Carvedilol Confers Neuroprotective Activity Through Modulating Ferroptosis Key Players and Pink1/Parkin Mediated Mitophagy in An Experimental Parkinson's Rat Model
Author: Amira Emad Mohamed
Research Type: Journal

513. Clinicobiochemical and Gas Chromatography-Mass Spectrometrybased Serum Metabolomics for Determining The Therapeutic Efficacy of Silymarin in Pneumonic Barki Sheep
Author: Amira Roshedy Mohamed Khattab
(Https://Doi.Org/10.5455/Ovj.2025.V15.I12.11)
Research Type: Journal

514. Context-Dependent Autophagy in Cancer: Deciphering Cytoprotective Vs. Cytotoxic Roles and Therapeutic Modulation Strategies
Author: Samer Ossama Soliman
(Https://Dx.Doi.Org/10.21622/Ampdr.2025.05.1.1251)
Research Type: Journal

515. Design and Synthesis of Pyrazolopyrimidinone Derivatives As Dual Vegfr/Aurora Kinase inhibitors Against Hepatocellular and Breast Carcinomas
Author: Marium Muhamed Hassan Moustafa Shamaa
(Https://Doi.Org/10.1016/J.Biopha.2025.118679)
Research Type: Journal

516. Dissemination of Carbapenem and Colistin Resistance in Gram-Negative Bacteria: The Emerging Role of Novel Β-Lactam/Β-Lactamase inhibitors for Managing A Global Dilemma
Author: Mohamed Tarek Mohamed Khaled
(Https://Dx.Doi.Org/10.21622/Ampdr.2025.05.2.1790)
Research Type: Journal

517. Evaluating The Structure-Based Virtual Screening Performance of Sars-Cov-2 Main Protease: A Benchmarking Approach and A Multistage Screening Example Against The Wild-Type and Omicron Variants
Author: Potros Yossef Gab Allah
Research Type: Journal

518. Exploring The Mirna-148b and The Caspase-3/Bcl-2/Bax Axis As A Potential Predictive Marker in Breast Cancer
Author: Mohamed Hemdan Mohamed
(Https://Doi.Org/10.5155/Eurjchem.16.2.222-232.2641)
Research Type: Journal

519. Exploring The Therapeutic Potential of Marjoram (Origanum Majorana L.) in Polycystic Ovary Syndrome: insights From Serum Metabolomics, Network Pharmacology and Experimental Validation
Author: Amira Roshedy Mohamed Khattab
(Https://Doi.Org/10.1186/S12906-025-04774-5)
Research Type: Journal

520. Fermented Vegetables As A Source of Psychobiotics: A Review of The Evidence for Mental Health Benefits

Author: Rasha Mohamed Mohamed Abd Elmegid
(Https://Doi.Org/10.1007/S12602-025-10592-5)
Research Type: Journal

521. Hepatoprotective Action of Sonchus Oleraceus Against Paracetamol-induced toxicity Via Nrf2/Keap-1/Ho-1 Pathway in Relation to Its Metabolite Fingerprint and in Silico Studies
Author: Amira Roshedy Mohamed Khattab
(Https://Doi.Org/10.1371/Journal.Pone.0325782)
Research Type: Journal

522. investigating The Dynamic Changes in Chemical Profiles and Antidiabetic Potential of Fenugreek Sprouts Across Germination Stages Using Uhplc-Qqq-Ms Combined with Chemometrics
Authors: Rasha Mohamed Mohamed Abd Elmegid and Eman Abd El Fatah Mohamed
(Https://Doi.Org/10.1016/J.Jfca.2025.108085)
Research Type: Journal

523. investigation of Colistin Activity and Its Possible Resistance Mechanisms Among Carbapenem-Resistant Gram-Negative Bacteria Isolated From Bloodstream infections From Hospital Laboratories in Alexandria, Egypt
Author: Mohamed Tarek Mohamed Khaled
Research Type: Thesis

524. Mannosylated Fenretinide Loaded Solid Lipid Nanoparticles Alleviate Liver Fibrosis
Author: Marium Muhamed Hassan Moustafa Shamaa
(Https://Doi.Org/10.1016/J.Jddst.2025.107417)
Research Type: Journal

525. Metabolomic and Antioxidant Characterization of Seven Egyptian and Saudi Date Syrups Via Gcms and Uhplc/Ms with Sensory Bioactive insights
Author: Amira Roshedy Mohamed Khattab
(Https://Doi.Org/10.1038/S41598-025-19541-2)
Research Type: Journal

526. Mitigation of Thromboinflammation By Rivaroxaban Ameliorates Metabolic and Structural Manifestations of Metabolic Dysfunction-Associated Steatohepatitis in Rats: Comparison to Other Antithrombotic Drugs
Author: Marium Muhamed Hassan Moustafa Shamaa
(Https://Doi.Org/10.1016/J.Jpet.2025.103749)
Research Type: Journal

527. New Thieno (2, 3-D) Pyrimidinone-Based Derivatives: Design, Synthesis, Biological Potential, and in Silico Studies Against Breast Cancer
Author: Marium Muhamed Hassan Moustafa Shamaa
(Https://Doi.Org/10.1016/J.Molstruc.2025.144530)
Research Type: Journal

528. Newly Designed Curcumin-Loaded Hybrid Nanoparticles: A Multifunctional Strategy for Combating Oxidative Stress, inflammation, and infections to Accelerate Wound Healing and Tissue Regeneration
Author: Amira Emad Mohamed
(Https://Doi.Org/10.1186/S12896-025-00989-Z)
Research Type: Journal

529. Prophylactic and Therapeutic Role of Betulin in Mitigating Obesity-Related Metabolic Dysfunction in Rats Fed on High-Fat Diet
Author: Marium Muhamed Hassan Moustafa Shamaa
(Https://Doi.Org/10.1016/J.Bioorg.2025.109156)
Research Type: Journal

530. Synergistic Targeting of Hepatocellular Carcinoma Via Novel Regorafenib Combinations with Diosmin, Sulfasalazine, Or Rosuvastatin
Author: Marium Muhamed Hassan Moustafa Shamaa
(Https://Doi.Org/10.1007/S10528-025-11141-Z)
Research Type: Journal

531. Unlocking Alogliptin's Shielding Power in Diclofenac-induced Kidney insult in Rats: interplay Between inflammation, Oxidative Stress, and Ferroptosis
Author: Yosra Yehya Ahmed Morsi
Research Type: Conference

532. Unveiling The Bioactive Potential of Egyptian Loquat Leaves: Seasonal and Cultivar-Based Variation in Phenolic Profiles, Antimicrobial, Anticancer, Antioxidant, and Xanthine Oxidase inhibitory Activities
Author: Rasha Mohamed Mohamed Abd Elmegid
(Https://Doi.Org/10.21608/Japs.2025.374607.1046)
Research Type: Journal

SOCIAL SCIENCES, ARTS AND HUMANITIES

533. A Multimodal Membership Categorization Analysis of Morgan Versus Youssef's 2nd interview on The 2023 Israel – Gaza War
Author: Reham Farouk Fathy Elshazly
(Https://Doi.Org/10.1515/Lass-2025-0007)
Research Type: Journal

534. A Systematic Review of Efl online Assessment in Higher Education: Effectiveness, Attitudes, and Challenges
Author: Marwa Mohamed Ali Abdelmohsen
(Https://Doi.Org/10.34105/J.Kmel.2025.17.020)
Research Type: Journal

535. A Tapestry of Evolving Signs: Platformized Labour and The Delegation of Moral Order
Author: Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1007/S11196-025-10323-7)
Research Type: Journal

536. A Trans-Disciplinary forensic Study of Lil Miquela's Virtual Identity Performance in instagram
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1007/S00146-025-02219-8)
Research Type: Journal

537. Between Semiotics and Puzzle Narrative Structure: An Analytical Study of The Creation of Cognitive Dissonance in Zeller's The Father (2020)
Authors: inas Hussein Hassan and Sara Yehia Ali El-Mansy
(Https://Doi.Org/10.21608/Jwadi.2025.401406.1222)
Research Type: Journal

538. Branding The Districts of Cosmopolitan Cairo: Exploring The Role of Districts in Branding Multicultural Cities
Authors: Salma Mohamed Hamid Ghanem, Sherif Elfiki, Marwa Khalifa and Samy Afifi
Research Type: Conference

539. Chronotopic Layers of Virtual Authenticity: Decoding Lil Miquela's Multi-Faceted Digital Identity
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1177/14703572251332877)
Research Type: Journal

540. Conceptual Imagery in The Apocalyptic Scenes in Two Arabic Translations of Milton's Paradise Lost: A Sociological-Stylistic Approach
Author: Abeer Mohamed Refky Mohamed Sedeek Soliman
Research Type: Journal

541. Cracking The Code: Untangling The Chessboard of (De) Legitimization in The international Court of Justice 2024 Using Computational Linguistics Approaches
Author: Sara Yehia Ali El-Mansy
(Https://Doi.Org/10.1515/Lass-2025-0052)
Research Type: Journal

542. Digital Humor Analysis of Bo Burnham's Netflix Comedy Special inside: New Sincerity, Postirony, and Metamodernism At Play
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1515/Lass-2025-0031)
Research Type: Journal

543. Do Ai-Generated Field-Specific Vocabulary Quizzes Provide Consistent Results? Measuring Learners' Performance and Their Perceptions
Author: inas Hussein Hassan
Research Type: Journal

544. Encoding Power Asymmetries in Teacher-Written Feedback: A 3-Dimensional Framework (Tfpmm) for Measuring Discursive Authority
Author: inas Hussein Hassan
Research Type: Journal

545. Envisaging Human-Nature Conflict in The Trailer for Oppenheimer (2023): A Multimodal Ecolinguistic Study: A Multimodal Ecolinguistic Study
Authors: Sara Yehia Ali El-Mansy and inas Hussein Hassan
(Https://Doi.Org/10.33806/Ijaes.V25i2.769)
Research Type: Journal

546. Exploring The Dimensions of Academic Human Capital: insights into Enhancing Higher Education Environments in Egypt
Author: Nourhan Moustafa Ahmed Ali Elsherbiny
(Https://Doi.Org/10.3390/Socsci14020072)
Research Type: Journal

547. Fawzy, Rm (2025) The Al Jazeera's Visual Stance on 30 June Revolution: Visual Appraisal and intertextuality in Dialogue
Author: Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1515/Lass-2024-0070)
Research Type: Journal

548. forensic Analysis of Populist Discourse and Multimodal Craft of Consensus in Netanyahu's July 2024 Congressional Address
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1080/10350330.2025.2492162)
Research Type: Journal

549. From Classroom to Community: Assessing The Impact of A Student- Designed Social Media Campaign in Promoting Sustainable Consumption Among Teens (An Experimental Study)
Author: Asmaa Mohamed Khaled Mohamed Hussein Elmawsely
(Https://Doi.Org/10.21608/Jmis.2025.403679.1082)
Research Type: Journal

550. Green Logistics Practices in Hospitality for Sustainable industry in Egypt
Author: Sama Hossameldin Abdelsamea Ahmed Gad
(Https://Doi.Org/10.21608/Caf.2025.434389)
Research Type: Journal

551. Investigating College Students' Attitudes and Perceptions of Using Chatgpt in Writing Language Essays
Authors: Iman Mohamed Mahfouz Elzakalaie and Marwa Mohamed Ali Abdelmohsen
(Https://Dx.Doi.Org/10.24093/Awej/Ai.1)
Research Type: Journal

552. Investigating the Construction of Gender Stereotypes in The Animated Movie Mulan: A Feminist Stylistics Approach
Author: Abeer Mohamed Refky Mohamed Sedeek Soliman
(Http://Dx.Doi.Org/10.21622/Ilcc.2025.05.1.1144)
Research Type: Journal

553. Is Tiktok A Public Sphere for Democracy in Egypt? The Application of Habermas's "Pseudo-Public Sphere
Authors: Nourhan tosson Ibrahim Ahmed and Nada Adel Hanafi Mahmoud Attia
(Https://Doi.Org/10.11114/Smc.V13i2.7474)
Research Type: Journal

554. It Can Still touch Your Feelings": Kinetic Semiotics and Postdigital Embodiment As Markers of Dynamic Cultural Modelling within The Vr Umwelt
Author: Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1007/S12304-025-09618-W)
Research Type: Journal

555. Judicial Authority and Rhetorical Strategies in Egyptian Abortion Rulings: A Computational forensic Analysis
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1007/S11196-025-10300-0)
Research Type: Journal

556. Modern Trends in Digital Journalism Technology Research and Studies: A Critical and Future Perspective
Author: Sahar Abdel Moneim Mahmoud Elkhouly
Research Type: Journal

557. Narrative Resistance: A Socio-Pragmatic Post-Colonial Analysis of Refaat Alareer's Palestinian internal Voice
Author: Abeer Mohamed Refky Mohamed Sedeek Soliman
(Http://Dx.Doi.Org/10.21622/Ilcc.2025.05.2.1286)
Research Type: Journal

558. No one Behind: A Visual Sentiment Analysis of Refugees From Gaza and Ukraine Saving Their Pets
Author: Asmaa Mohamed Khaled Mohamed Hussein Elmawsely
(Https://Doi.Org/10.1007/S11196-025-10293-W)
Research Type: Journal

559. Place Branding: A Framework towards Branding The Districts of Cairo
Authors: Salma Mohamed Ghanem, Marwa Khalifa, Samy Afifi and Sherif Elfiki
Research Type: Thesis

560. Postdigital Meantime, Silent Labor: A Semio-Lacanian Approach to Gig Workers' Stock Photos
Author: Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1007/S11196-025-10269-W)
Research Type: Journal

561. Reading Uber in Cairo: Greimasian Semiotics and The Politics of Neoliberal Nudging
Author: Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1163/24714607-Bja10181)
Research Type: Journal

562. Representations of The Israeli-Palestinian Conflict on Twitter: A Corpus-Based Linguistic Analysis
Author: Rehab Hasan Mahmoud
(Https://Doi.Org/10.21622/Ilcc.2025.05.1.1276)
Research Type: Journal

563. Rereading Blackness: Geotrauma and Afro-Pessimism in Brit Bennett's The Vanishing Half
Author: Alshaymaa Mohamed Mohamed Ahmed
(Https://Doi.Org/10.1007/S12111-025-09687-8)
Research Type: Journal

564. Shaping Reception: The Socio-Cultural Role in Paratexts in Translation
Authors: Abeer M. Refky M. Seddeek and Yomna Aly Abdelmoaty Elsayed
(Https://Doi.Org/10.21608/Jwadi.2025.354268.1161)
Research Type: Journal

565. The Axiology of Postdigital Memory: Semioethics of forensic Evidence in The Swakopmund investigation
Author: Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1007/S11196-025-10360-2)
Research Type: Journal

566. The Impact of Covid-19 Related Job Stress on Presenteeism Among Egyptian Police Health Care Workers: The Moderating Role of Affective Organizational Commitment
Author: Sama Hossameldin Abdelsamea Ahmed Gad
(Https://Doi.Org/10.1080/09581596.2025.2533486)
Research Type: Journal

567. The Impact of Disinformation Generated By Ai on Democracy Case Studies: The Us Presidential Elections in 2016 & 2024
Authors: Nourhan toson Ibrahim Ahmed and Nada Adel Hanafi Mahmoud Attia
(Doi 10.1108/Reps-12-2024-0104)
Research Type: Journal

568. The Impact of Ted Talks Videos on The Speaking Skills of Logistics Students in Esp Classes
Author: Abeer Mohamed Refky Mohamed Sedeek Soliman
(Https://Doi.Org/10.21608/Opde.2025.461448)
Research Type: Journal

569. The Impact of Using online Economic Newspaper Articles on Teaching Esp Vocabulary to Business Students: A Task-Based Approach
Author: Abeer Mohamed Refky Mohamed Sedeek Soliman
(Http://Dx.Doi.Org/10.21622/Ilcc.2025.05.1.1052)
Research Type: Journal

570. The Role of Social Media Activism in Setting The Agenda of Egyptian News Sites: A Case Study of Vaw Issues
Author: Nourhan Moustafa Ahmed Ali Elsherbiny
(Https://Doi.Org/10.55220/2304-6953.V14i1.715)
Research Type: Journal

571. The Semiotics of Silence As A Heterotopia of Agency and Legitimization: Rabaa's Protests As Visualized in Getty Images
Author: Asmaa Elmously and Rania Magdi Fawzy Mohamed
(Https://Doi.Org/10.1007/S11196-025-10266-Z)
Research Type: Journal

572. Towards More Power-Sensitive Teacher's Written Feedback: A Critical Review of Authority
Author: inas Hussein Hassan
(Http://Dx.Doi.Org/10.21622/Ilcc.2025.05.1.1290)
Research Type: Journal

573. Unheard Melodies and Emotional Peaks in Let It Go and Show Yourself: A Multimodal Sentiment Analysis
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1515/Lass-2025-0032)
Research Type: Journal

574. Virtual Identity Construction in Translanguaging Spaces: Unveiling The Semiotic Power of Emojis in Lil Miquela's instagram Posts
Author: Nashwa Abdelkader Elyamany Abdelmoneim Younes
(Https://Doi.Org/10.1080/1472586x.2025.2463516)
Research Type: Journal

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Authors: Yara Abdelsamie and Alshaymaa Mohamed Mohamed Ahmed
(Https://Doi.Org/10.1515/Lass-2025-0020)
Research Type: Journal

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Author: Ahmed Mohamed Mansour Khames Elshaer
(Https://Doi.Org/10.1007/S13177-025-00503-X)
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Authors: Akram Soliman Mohamed Soliman and Wael Aly Kamel
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Author: Loay Mostafa Aboud Aboud
(Https://Dx.Doi.Org/10.20517/Ir.2025.29)
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587. The Environmental Impact of inland Empty Container Movements within Two-Depot Systems
Authors: May Salaheldine Mohamed Elsayed and Alaa Gaber Mahmoud Salama Mohamed Abdelshafie
(Https://Doi.Org/10.3390/App15147848)
Research Type: Journal

588. 2025 Adaptation and Development Plans for The Egyptian Ports Under The Impacts of Climate Change

Author: Akram Soliman Mohamed Soliman

(Https://Doi.Org/10.1016/J.Ocecoaman.2025.107577)

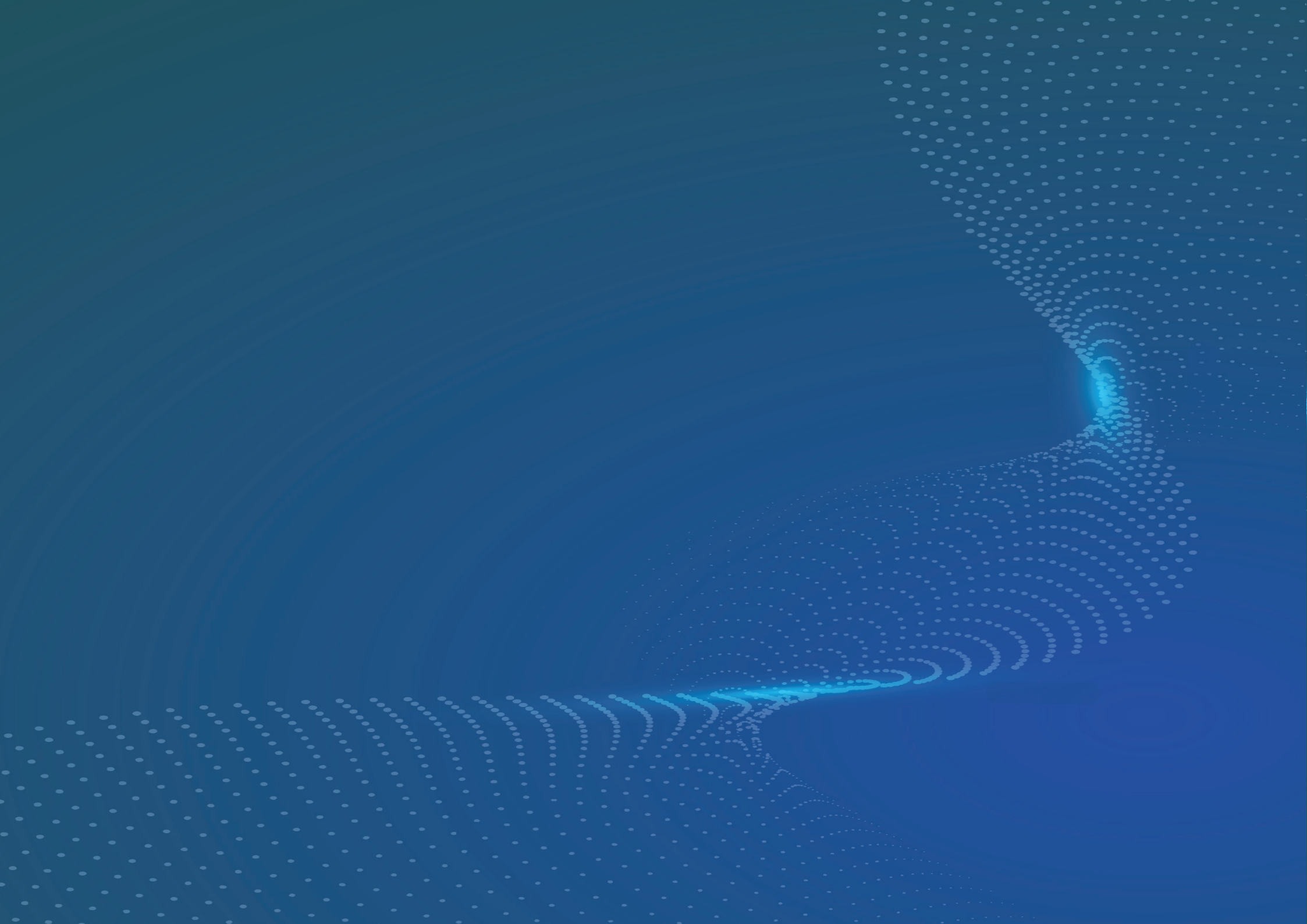
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Authors: Mohamed Tarek Mohamed A S Mito, Abdel-Hameed M. El-Aassar, Heba Isawi, Mohamed E. A. Ali, Hosam A. Shawky, Selda Oterkus and Erkan Oterkus

(Https://Doi.Org/10.1038/S41598-025-29122-Y)

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