

Ahmed Ramadan Ahmed, Bsc, Msc, PhD.,

Associate Professor

Summary

Dr. A.Ramadan is an associate professor in the Engineering physics at applied science Department, College of Engineering - Arab Academy for Science, Technology and Maritime Transport (AASTMT) since 2021. He has six years of teaching experience for undergraduate students and four years for postgraduate students as associate Prof.

Professional Experience

Nov. 2018	Become a member of the AAST Center of Entrepreneurship networks of professional mentors, coaches, and consultants.
Apr. 2017- Present	The originator of the mechanical power engineering department- College of Engineering, Arab Academy for Science, Technology and Maritime Transport (AASTMT) – South Valley Branch.
Feb. 2017	Member of the Jury Committee in the Intel Bibliotheca Alexandrina Science and Engineering Fair (Intel BASEF 2017) Intel ISEF Egypt.
2016 – Present	Technical Reviewer for Energy, Ocean Engineering and Renewable Energy – Elsevier and International Journal of Rotating Machinery, Marine Energy and Hydropower journals. AWTEC Conferences Series.
Oct. 2016	Chairing sessions at the OMICS Group Conferences (Florida).
2015–Present	Assistant Professor, Arab Academy for Science, Technology & Maritime Transport, Cairo, Egypt.
Feb. 2014 – Sept. 2014	Full-time researcher and part-time lecturer in Hamburg University (TUHH), Harburg, Germany.
2014 - Present	Consultant at Blue Power Co. for Renewable Energy Sector (Sea Wave Energy Conversion Systems and Wind Turbine)
2009 – 2013	Teaching Assistant, Faculty of engineering el Mattaria- Helwan University, Cairo, Egypt.
2009 – 2013	Worked as a senior mechanical engineer in consulting Mechanical office (Hydro Consult).
2007 – 2013	Part-time Teaching Assistant, Arab Academy for Science, Technology & Maritime Transport, Cairo, Egypt
2004 – 2005	Worked as a junior mechanical engineer in consulting mechanical Office (El Sharq office).
2003 – 2009	Demonstrator at the Faculty of Engineering at Mataria

Academic Experience

- 2022-Present Post Doctor Fellowship – Ontario Tech University. Faculty of Engineering- Postdoc Fellowship Smart Energy Systems Lab (SESL)
- 2015 – Present Participate in the project of WAVE HUNTER with Hamburg University and Blue Power Co.
- 2014 – 2014 Studied in Germany for 6 months in the field of wave energy conversion (DAAD Scholarship GERSS).
- 2012 –2015 Ph.D. in Engineering Physics – Engineering Physics and math Department- Faculty of Engineering el Mattaria- Helwan University
- 2006 – 2009 M.Sc., Ain Shams University (Engineering physics and math Department), Cairo, Egypt, July 2009.
- 1996 – 2001 B.Sc. of Mechanical Power Engineering. Helwan University, Faculty of Engineering el-Mattaria.

Publications, Technical Reports & Presentations

1. Mustafa A. Aldeeb, **A. Ramadan**, Franco Gaspari, and Hossam A. Gabbar " Spectroscopic study of microwave plasma torch for solid Waste Pyrolysis" **15TH INTERNATIONAL CONFERENCE ON PLASMA SCIENCE & APPLICATIONS AAAPT & GAUHATI UNIVERSITY**. December 28-30, 2022. India.
2. Khaled R. Abdelaziz, Mohamed A. A. Nawar, **Ahmed Ramadan**, Youssef A. Attai, Mohamed H. Mohamed." Performance improvement of a Savonius turbine by using auxiliary blades" Journal of **Energy** 244 (2022), 122575.
3. **A. Ramadan** and M.H. Mohamed "Point absorber WEC (1st ed. pp. 59 - 108) book of Ocean Wave Energy Systems" Springer, Cham, 2022. Doi: <https://doi.org/10.1007/978-3-030-78716-5>
4. M.A.A. Nawar, H.S. Abdel Hameed, **A. Ramadan**, M.H. Mohamed, and R.M. Abd El-Maksoud "Heterogeneous comparative effects of casing grooves on a submersible axial turbine performance for wave energy conversion" **Ocean Engineering** 225 (2021), 108812.
5. Mohamed. A. A. Nawar, H. S. Abdel Hameed, Youssef A. Attai, **A. Ramadan** and M. H. Mohamed "Experimental and Numerical Investigations of the Effect of Geometrical Parameters on Archimedes Spiral Wind Turbine" Journal of **Energy** 223 (2021), 120051.
6. **A. Ramadan**, M. Hemida, W. A. Abdel-Fadeel, W. A. Aissa, M. H. Mohamed "Comprehensive Experimental and Numerical Assessment of a Drag Turbine for River Hydrokinetic Energy Conversion" **Ocean Engineering** 227 (2021), 108587.
7. Abd El Rahman Dalia, Gihan Mosaad, AbdElAziz Hemeida, and **Ahmed Ramadan** "Modeling Zero Energy Building Parameteric Study for the Technical Optimization" **Journal of Al-Azhar University Engineering Sector** 15 (2020), 828-844.
8. **A. Ramadan**, Mohamed A.A. Nawar, and M.H. Mohamed "Performance evaluation of a drag hydro kinetic turbine for rivers current energy extraction - A case study" **Ocean Engineering** 195, 1 January 2020.

9. M. Hemida, W. A. Abdel-Fadeel, **A. Ramadan**, and W. A. Aissa, "Numerical Investigation of Hydrokinetic Savonius Rotor with Two Shielding Plates", **APPLICATIONS OF MODELLING and SIMULATION**, VOL 3, NO. 2, 2019.
10. M. Mohammadi, R. Mohammadi, **A. Ramadan** and M.H. Mohamed "Innovative Performance Refinement of Drag Type Vertical Axis Wind Turbine" *Journal of Energy* 158 (2018) 592-606.
11. **A. Ramadan**, K. Yousef, M. Said, and M.H. Mohamed "Shape optimization and experimental validation of a drag vertical axis wind turbine" *Journal of Energy* 151 (2018) 839-853.
12. H.M. El-Sayed, Safie Elden Metwally, E.T. El Shenawy, **A. Ramadan** "Performance Study of Photovoltaic-Water Electrolysis System for Hydrogen Production: A Case Study of Egypt" **Int. J. of Thermal & Environmental Engineering** Volume 15, No. 2 (2017) 129-133.
13. **A. Ramadan** "Innovative Design Investigation of an augmented Drag vertical axis wind turbine under unsteady characteristics" 4th International Conference and Exhibition on Mechanical & Aerospace. USA 2016.
14. **A. Ramadan**, S. Y.Marzok, M. H. Mohamed, M. Abdel-Maksoud, A. El FEKY, and A.R. El "Baz Power Captured Experimentally from Water Wave using the WAVE HUNTER System" 4th International Conference and Exhibition on Mechanical & Aerospace. USA 2016.
15. **A. Ramadan**, S. Y.Marzok, M. H. Mohamed, S. M. Abdien, A. El FEKY, and A. R. El- Baz "An Artificial Generation of Regular and Irregular Sea Wave: New Design Simulator and Experimental performance." *Journal of Energy* 69 (2014) 309-318.
16. **A. Ramadan**, M. H. Mohamed, S. M. Abdien, S. Y. Marzouk, A. El Feky, and A.R.El Baz." Analytical Investigation and Experimental Validation of an Inverted Cup Float Used for Wave Energy Conversion." *Journal of Energy* 70 (2014) 539-546.
17. **A. Ramadan**, S. Netzband, M. Abdel-Maksoud "Experimental test for performance of WAVE HUNTER system in Wave energy conversion" Report number: FDS/011- 2014/FDS-1:07/2013, 2014, Affiliation: Hamburg university - Fluid and Ship Theory Institute (FDS) Harburg.DOI: 10.13140/RG.2.1.1486.6642
18. **A. Ramadan**, M. H. Mohamed, SM Abdien, SY Marzouk" Numerical and Experimental Assessment of an Inverted Cup Float Used for Wave Energy Conversion" International Conference and exhibition on Mechanical & Aerospace. USA, 01/2013.
19. **A. Ramadan**, M. H. Mohamed, SM Abdien, SY Marzouk "Design and Performance of an Artificial Regular and Irregular Sea wave Simulator" 1st Asian Wave and Tidal Conference Series -Jeju Island - South Korea, 205-214/2012.
20. **A. Ramadan**, E. El-Shenawy, A. Abdel Dayem1 and S. Eid" Numerical Simulation of PV- Hydrogen Electrolyzes System" conference of renewable energy in the research institute center in Egypt 2008. International conference ASAT 2010.
21. **A. Ramadan**, E. El-Shenawy, A. Abdel Dayem and S. Eid "Optimization of PV- Hydrogen Electrolyzes System" conference of renewable energy in research institute center in Egypt 2008. International conference ASAT 2010.

Personal Information

Birth date : 5/1/1978
Birth place : Cairo, Egypt
Marital status : Married
Syndicate No. : 11/4006437
Religion : Muslim
Military status : Accomplish
Address : No. 23 - Area 6– District 1 – The Fifth Settlement – New Cairo - Egypt
Telephones : 02- 25652412- Mobile: +201006037730
E-Mails /Ahmed.Mohamed@ontariotechu.ca/
amadoo88.ar@gmail.com/ahmedramadan2001@aast.edu

SKILLS

Computer

- Very good knowledge of Microsoft office package.
- (Word, excel, power point, financial applications using excel).
- AutoCAD, Inventor, Data fit program, Grapher, Transys simulation program.
- ANSYS CFD and ANSYS AQWA

LANGUAGE

- Mother tongue: Arabic
- First tongue : English Very good
- Second tongue : French Acceptable
- Third tongue : German Poor