



Name: Dr. Mohamed Zein Elbadawy

Rank: Assistant Professor - Mechanical engineering

Personal Information

Nationality: Egyptian

AU Joining Date: 09 Jan 2019

E-Mail Address: m.elbadawy@au.edu.kw

Professional Information

Education:

Qualification: Doctorate

Major: Engineering Mechanics

University: Virginia Polytechnic Institute and State University

Year: 2018/2019

Qualification: Masters

Major: Engineering Mechanics

University: Cairo University

Year: 2010/2011

Qualification: Bachelor

Major: Aerospace Engineering

University: Cairo University

Year: 2004/2005

Specialization:

Structural Health Monitoring

Systems Dynamics

Sustainable and Renewable Energy

Current Academic Position:

Assistant Professor

Current Professional Positions:	NA
Previous Administrative Position Held:	NA
Previous Academic Positions Held:	<ul style="list-style-type: none"> - 2013-2018, Graduate Research/Teaching Assistant at Virginia Tech. - 2009-2013, Instructor at the German University in Cairo - 2008-2013, Graduate Assistant/Instructor at Cairo University - 2005-2008, Engineer at the Egypt Air Force
Fellowships And Honors:	NA
Teaching Experience:	<p>Assistant Professor, Department of Mechanical Engineering, Australian University, Kuwait, January 2019 – Current.</p> <p>2009-2013, Instructor at the German University in Cairo</p> <p>2008-2013, Graduate Assistant/Instructor at Cairo University</p>
Industrial And Technical Experience:	Maintenance Engineer, Egypt Air Force
Research Interest:	<p>Dynamical Systems and Control Systems</p> <p>Optimization</p> <p>Data Analytics</p> <p>Mathematical Modeling & FE Modeling</p> <p>GIS & Remote Sensing</p>
Research Grants:	NA
Research and Publications including Journal and Books:	<ul style="list-style-type: none"> • Younis, A., Dong, Z., ElBadawy, M., AlAnazi, A., Salem, H. and AlAwadhi, A., 2022. Design and Development of Bladeless Vibration-Based Piezoelectric Energy-Harvesting Wind Turbine. Applied Sciences, 12(15), p.7769. • Younis, A.A. and Elbadawy, M., 2022. An adaptive sampling and weighted ensemble of surrogate models for high dimensional global optimization problems. Electronic Journal of Applied Statistical Analysis, 15(2), pp.421-442. • M. P. Singh, M. Z. Elbadawy, S. Bisht, "Dynamic Strain Response Measurement-Based Damage Identification in Structural Frames", Struct Control Health Monit. 2018; e2181.
Paper Presentations at Professional Conferences:	<ul style="list-style-type: none"> • M. P. Singh, M. Z. Elbadawy, "Earthquake Response Measurement-Based Methods for Damage Identification in Building Structures", 16th Symposium on Earthquake Engineering, IIT Roorkee, India, 20-22 December 2018. • M. P. Singh, S. Bisht, M. Z. Elbadawy, 2015, "Strain Response Measurement-Based Damage Identification in Building Frame Structures". 6th International Conference on Advances in Experimental Structural Engineering (6AESE).
University Service including committee Membership:	<p>Curriculum committee member</p> <p>Validation and moderation committee member</p>
National Service:	NA
University Committees:	NA