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Mohammad El-Bardini

Professor

Menoufia University, Faculty of Electronic Engineering
Department of Industrial Electronics and Control Engineering
Menouf, PO Box 32952 Menouf City, Menoufia Governorate, Egypt

Email: dralbardini@ieee.org



Education:

Ph.D: Robotic Engineering, Faculty of automatic control , Moscow.

MSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, .

BSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt.

Current Position:

2015-Now: Dean of the Faculty of Electronic Engineering, Menoufia University, Egypt.

Previous Work

2014: Head of Department of Industrial Electronics and Control Engineering.

Research Interest:

- Robotics
- Computer Controlled Systems
- Embedded System design for Control Systems
- He has co-authored many journal and conference papers and is working in the field of Intelligent Control Systems , Embedded Control Systems , Advanced Techniques for Systems Modeling , and Vision based Control of Robotic Systems. He is the recipient of the best students project Award in Egyptian Engineering Day.

Recent Publications:

- Elshazly Osama, Mohammad El-bardini, and Nabila M. El-Rabaie. "Adaptive fuzzy iterative learning controller for XY table position control." *Automation, Quality and Testing, Robotics, 2014 IEEE International Conference on*. IEEE, 2014.
- El-Nagar, Ahmad M., Mohammad El-Bardini, and Nabila M. EL-Rabaie. "Intelligent control for nonlinear inverted pendulum based on interval type-2 fuzzy PD controller." *Alexandria Engineering Journal* 53.1 (2014): 23-32.

- El-Bardini, Mohammad, and Ahmad M. El-Nagar. "Interval type-2 fuzzy PID controller for uncertain nonlinear inverted pendulum system." *ISA transactions* 53.3 (2014): 732-743.
- El-Nagar, Ahmad M., and Mohammad El-Bardini. "Practical implementation for the interval type-2 fuzzy PID controller using a low cost microcontroller." *Ain Shams Engineering Journal* 5.2 (2014): 475-487.
- Ramadan, Ebrahim Abd El-Hamid Mohamed, et al. "Embedded system based on a real time fuzzy motor speed controller." *Ain Shams Engineering Journal* 5.2 (2014): 399-409.
- El-Nagar, Ahmad M., and Mohammad El-Bardini. "Interval type-2 fuzzy neural network controller for a multivariable anesthesia system based on a hardware-in-the-loop simulation." *Artificial intelligence in medicine* 61.1 (2014): 1-10.
- El-Nagar, Ahmad M., and Mohammad El-Bardini. "Derivation and stability analysis of the analytical structures of the interval type-2 fuzzy PID controller." *Applied Soft Computing* 24 (2014): 704-716.
- El-Nagar, A. M., and M. El-Bardini. "Simplified interval type-2 fuzzy logic system based on new type-reduction." *Journal of Intelligent & Fuzzy Systems: Applications in Engineering and Technology* 27.4 (2014): 1999-2010.
- AM El-Nagar, M El-Bardini "Hardware-in-the-loop simulation of interval type-2 fuzzy PD controller for uncertain nonlinear system using low cost microcontroller" *Applied Mathematical Modelling*, 2015
- AA Khater, M El-Bardini, NM El-Rabaie "Embedded Adaptive Fuzzy Controller Based on Reinforcement Learning for DC Motor with Flexible Shaft" *Arabian Journal for Science and Engineering* 40 (8), 2389-2406(2015)