

Nabila M. El-Rabaie

Professor Emeritus

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

Email: nabila2100@gmail.com

Education:

Ph.D: Control Engineering, Queen's University, UK, 1990.

MSc: Electronic Engineering, Faculty of Engineering, Cairo University, Egypt, 1980.

BSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, 1974.

Current Position:

2007-Now: Professor Emeritus at Dept of Industrial Electronics and Control Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt.

Previous Work Experiences

2007-2015: Professor, Faculty of Electronic Engineering, Menoufia University, Egypt.

1995-2007: Assistant professor, Faculty of Electronic Engineering, Menoufia University, Egypt.

1990-1995: Lecturer, Faculty of Electronic Engineering, Menoufia University, Egypt.

1980-1990: Assistant lecturer, Faculty of Electronic Engineering, Menoufia University, Egypt.

1974-1980: Demonstrator, Faculty of Electronic Engineering, Menoufia University, Egypt.

Research Interest:

- Automatic Control Engineering
- System Modeling.
- Robotics and Mechatronics.
- Artificial Intelligence (Fuzzy Logic, Type-2 Fuzzy Logic, Neural Network, Fuzzy Neural Network and Clustering).
- Applications of artificial intelligence for biomedical systems.

Recent Publications:

- [1] M. El-Bardini, A. M. El-Nagar and **N. El-Rabaie**, "Interval Type-2 Fuzzy Logic Control For Multivariable Anaesthesia System", Journal of Engineering Sciences, Assiut University, Vol. 38, No. 6, PP. 1485-1506, 2010.
- [2] Osama Elshazly, M. El-Bardini and **N. El-Rabaie**, "Development of Self-Tuning Fuzzy Iterative Learning Control for Controlling a Mechatronic System", The 3rd International Conference on Computer and Automation Engineering, pp. 193-197, 2011.
- [3] E. A. Ramadan, M. El-Bardini and **Nabila El-Rabaie**, Mohamed Fkirin, "Embedded system based on a real time fuzzy motor speed controller", Ain Shams Engineering Journal, Vol. 5, No. 2, 2013.
- [4] A.M. El-Nagar, M. El-Bardini and **Nabila El-Rabaie**, "Intelligent Control for Nonlinear Inverted Pendulum Based on Interval Type-2 Fuzzy PD controller", Alexandria Engineering Journal, Vol. 53, No. 1, PP. 23-32, 2014.
- [5] Osama Elshazly, M. El-Bardini and **Nabila El-Rabaie**, "Adaptive Fuzzy Iterative Learning Controller for X-Y Table Position Control", 2014 IEEE International Conference on Automation, Quality and Testing, pp. 51-56, 2014.
- [6] A. A. Khater, M. El-Bardini, **N. El-Rabaie**, "Embedded Adaptive Fuzzy Controller Based on Reinforcement Learning for DC Motor with Flexible Shaft", Arabian Journal for Science and Engineering, Vol. 40, No. 8, PP. 2389-2406, 2015.