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# Mohamed El-Brawany

## Associate Professor

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### Education:

- Ph.D: Biomedical Engineering, St. George's Hospital Medical School, University of London, UK, 2000.
- MSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, 1993.
- BSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, 1989.

### Current Position:

- 2015-Now: Head of Dept of Industrial Electronics and Control Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt.

### Previous Work Experiences

- 2008-2015: Head of Dept of Biomedical Engineering, College of Engineering, University of Dammam, Kingdom of Saudi Arabia.
- 2004-2005: Academic Visitor, St. George's Hospital Medical School, University of London, London, UK.
- 2002-2008: Assistant Professor, Faculty of Electronic Engineering, Menoufia University, Egypt.
- 2000-2002: Post Doc position as a Clinical Scientist, St. George's Hospital Medical School, University of London, London, UK.
- 2001-2002: An honorary appointment as a Visiting Researcher at Joint Section of Physics, Institute of Cancer Research, Royal Marsden NHS Trust, Sutton, London, UK.
- 1993-2000: Lecturer, Faculty of Electronic Engineering, Menoufia University, Egypt.
- 1990-1993: Demonstrator, Faculty of Electronic Engineering, Menoufia University, Egypt.

### Research Interest:

- Medical Ultrasound,
- Safety of Diagnostic Ultrasound
- Biomedical Signal Processing,

- Modeling and Control of Physiological systems,
- MRI-Guided Ultrasound Cancer Therapy

### Recent Publications:

- Karar M. E., Burgert O., and El-Brawany M. A., “Simplified Takagi-Sugeno Fuzzy PID Control of IV Drugs Infusion for Acute Congestive Heart Failure Therapy ” 1<sup>st</sup> International Conference on Applied Bionics and Biomechanics (ICABB), Venice, Italy, 14-16 Oct 2010.
- Karar M. E., El-Brawany M. A., “Adaptive Fuzzy Neural Networks Control of Cardiac Drug Infusion System ” Journal of Medical & Biological Engineering & Computing, 2011:3 1-11, [doi: 10.4137/BECB.S6495](https://doi.org/10.4137/BECB.S6495).
- Sahar H. El-Khafif and Mohamed A. El-Brawany, “Artificial Neural Network-Based Automated ECG Signal Classifier,” ISRN Biomedical Engineering, vol. 2013, Article ID 261917, 6 pages, 2013. [doi:10.1155/2013/261917](https://doi.org/10.1155/2013/261917)
- A. Shaw, G R ter Haar, D K Nassiri, M. El Brawany, I Rivens, Y C Sutton1 and R Preston “Thermocouple for the Measurement of Heating by Diagnostic Ultrasound,” To be submitted to Ultrasound in Medicine and Biology.
- M A El-Brawany, D K Nassiri, K Ojha, GR ter Haar, A Shaw, I Rivens, “Measurement of Temperature Rise in Human Fetus Due to Diagnostic Ultrasound” In preparation.
- El-Brawany M. A., “A compartmental diabetic model with intravenous and subcutaneous insulin infusion” in preparation.