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Education:

- Ph.D: Medical Engineering, University of Leipzig, Germany, 2012.
- MSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, 2006.
- BSc: Electronic Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt, 2000.

Current Position:

2012-Now: Lecturer in Industrial Electronics and Control Engineering, Faculty of Electronic Engineering, Menoufia University, Egypt.

Previous Work Experiences

- 2015 : Post Doc position, Technical University of Munich (TUM), Germany.
- 2006-2012: Assistant Lecturer, Faculty of Electronic Engineering, Menoufia University, Egypt.
- 2000-2006: Demonstrator, Faculty of Electronic Engineering, Menoufia University, Egypt.

Research Interest:

- Medical Robotics
- Biomedical Signal and Image Processing
- Modeling and Control of Physiological systems,
- Ultrasound Cancer Therapy
- Automatic Control Applications in Medicine

Recent Publications:

- Karar ME. Towards unsupervised image-based tracking of liver features in 2-D Ultrasound sequences: In: Computer Assisted Radiology and Surgery (CARS 2015). 24-27 June 2015 Barcelona, Spain.
- Karar ME, Merk DR, Falk V, Burgert O.: A simple and accurate method for computer-aided transapical aortic valve replacement. Int J Computerized Medical Imaging and Graphics. 2014; <http://dx.doi.org/10.1016/j.compmedimag.2014.09.005> (Accepted)

- Karar ME. Perspectives on Image-Guided Transapical Heart Beating Aortic Valve Intervention. In: Systems and Architectures of Computer Assisted Intervention (SACAI 2013) Workshop, MICCAI 2013, 22-26 Sept Nagoya, Japan.
- Karar ME, Merk DR, Chalopin C, Walther T, Falk V, Burgert O. Aortic valve prosthesis tracking for transapical aortic valve implantation. Int J Comput Assist Radiol Surg. 2011; 6(5): 583-590. DOI 10.1007/s11548-010-0533-5
- Karar ME, 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.