

## **Contact Info:**

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## **Biographical sketch**

( Academic Degrees-  
Fellowships and  
Associations)

- July 2011, Fellowship, “International Leadership Program: Science & Education”,US Department of State, USA.
- September 2006: Ph.D. ”Biomedical Engineering: Modified Methods for Medical Image Processing, Telemedicine, and Archiving”, Electrical Engineering Department, Faculty of Engineering, Alexandria University.PhD thesis is published, VDM publications, Feb. 2010, ISBN: 978-3-639-24018-4.
- November 2000: M.Sc. “Fuzzy Logic in Robotics: An Inverse Fuzzy Genetic Algorithm for Robot Manipulators”, Electrical Engineering Department, Faculty of Engineering, Alexandria University

	<ul style="list-style-type: none"> <li>• <b>June 1996: B.Sc. Electrical Engineering, Faculty of Engineering, Alexandria University. Grade: Very Good with honor (ranked sixth of the department)</b></li> </ul>
<p><b>publications</b></p>	<p style="text-align: center;"><b><u>PUBLISHED BOOKS</u></b></p> <ol style="list-style-type: none"> <li>1. <b>“Biomedical Engineering: Modified Methods for Medical Image Processing, Telemedicine, and Archiving,” Mohamed Abdou, VDM publications, ISBN: 978-3-639-24018-4, Feb. 2010.</b></li> </ol> <p style="text-align: center;"><b><u>PUBLISHED JOURNALS</u></b></p> <ol style="list-style-type: none"> <li>2. <b>“Particle Swarm Optimization for Nano-Particles Extraction from Supporting Materials” . International Journal of Image Processing IJIP, Vol. 5, Issue (3), 2011. July 2011</b></li> <li>3. <b>“An Efficient Thresholding Neural Network Technique for High Noise Densities Environments”. International Journal of Image Processing September 2011</b></li> <li>4. <b>“Efficient Registration of Range Images Using Wavelet Features.” International journal of Computers &amp; their Applications (IJCA), Vol. 18, No. 2, June 2011</b></li> <li>5. <b>“Nano-particle Characterization Using A Fast Hybrid Clustering Technique for TEM Images” International Journal of Computer Science and Information Security (IJCSIS ISSN: 1947-5500 USA), Vol.8, No.9, pp.101- 110, 2010. December 2010</b></li> </ol>

6. "A Fuzzy-Wavelet Based Approach to a Novel Image Denoising Engine". IASTED, The International Journal of Computers Applications (ISSN:1206-212X Canada), Vol. 33, No. 4. September 2010

**REFREED CONFERENCE PUBLICATIONS**

7. Wavelet Image Processing, Feb. 2008, 10<sup>th</sup> IASTED International Conference on Computer Graphics and Imaging, Innsbruck, Austria, pp.34- 39 "An Introduced Blocked-Wavelet Algorithm for Signal and Time Improvements of Images with Multiple Regions"
8. Neuro-Fuzzy Segmentation , March 2006, 23<sup>rd</sup> National Radio Science Conference(NRSC 2006), Egypt , "A Neuro-Difference Fuzzy Technique for Automatic Segmentation in Medical Imaging"
9. Image Compression, Feb. 2006 , ISPRA 2006, Madrid, Spain , " A Hybrid Lossless Compression Technique with Segmentation and Modified Arithmetic Coding"
10. Progressive Image Transmission , July 2005 , IASTED 2005, Novosibirsk, Russia , "Fast and Reduced-Bit Zerotree Coding Algorithm for Progressive Transmission of Medical Images "
11. Fuzzy Control, August 2000, 10<sup>th</sup> ICCTA August 2000, Alexandria, Egypt, "Fuzzy Genetic Control and Optimization of Decentralized Robot Manipulators"

**Academic Research interests:**

1. Digital signal Processing

	<ol style="list-style-type: none"><li>2. <b>Image Processing, Biomedical Imaging</b></li></ol>
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3. **Telemedicine**

4. **Fuzzy Logic Applications**

5. **Evolutionary Computation Methods**