Yasser Mostafa Kadah

Professor, Department of Electrical and Computer Engineering, King Abdulaziz University

Education

Degree	Field of Study	Institution	Year
Ph.D.	Biomedical Engineering	University of Minnesota	1997
M.Sc.	Biomedical Engineering	Cairo University	1992
B.Sc.	Biomedical Engineering	Cairo University	1989

Academic Experience

From	To	Institution	Rank	Title	Capacity
2014	Now	King Abdulaziz University	Professor	Professor	Full-Time
1989	2014	Cairo University	Professor	Chair of Biomedical Engineering Dept.	Full-Time
2011	2013	Cairo Higher Institute of Engineering	Professor	Chair of Electrical and Computer Eng. Dept.	Part-Time
2002	2004	Emory University / Georgia Institute of Technology	Research Associate	Research Associate	Full-Time
1998	1998	University of Minnesota	Post-Doc	Post-Doc	Full-Time
1997	1998	University of Louisville	Post-Doc	Post-Doc	Full-Time

Non-Academic Experience *(Including Consultations)*

From	To	Company/Entity	Title	Position Description (Brief)	Capacity
1998	2014	IBE Tech / MashreqRDC	R&D Consultant	Medical Device Design	Part-Time

Funded Research Projects and Patents From The Last Five Years

- New Approach for speckle reduction in medical ultrasound imaging with real-time implementation on an ultrasound imaging research system (Role: PI, Fund: SAR 150,000, Duration: 1 Year)

Certifications and Professional Registrations

Certified Consultant for Medical Instrumentation, Egyptian Syndicate of Engineers.

Current Membership in Professional Societies and Organizations

	Society/organization	Rank	Member Since
1.	Institute of Electrical and Electronics Engineers (IEEE)	Senior Member	1997
2.	Society of Photo-optical Instrumentation Engineers (SPIE)	Senior Member	2000
3.	Association for the Advancement of Medical Instrumentation (AAMI)	Member	2010

| 4. | Saudi Scientific Society of Biomedical Engineering (SSSBE) | Board Member | 2015 |

Honors and Awards

- Senior Member, Institute of Electrical and Electronic Engineers (IEEE), 2003.
- Senior Member, International Society of Optical Engineering (SPIE), 2015.
- Best Professor in Biomedical Engineering award from Cairo University faculty Club, 2007.
- The 2005 State Encouragement Award for Engineering Sciences from the Academy of Scientific Research and Technology, 2006.
- The E.K. Zaviosky award from the International Society for Magnetic Resonance in Medicine (ISMRM), 2002.
- The international IDB Merit Scholarship for distinguished scientists, Islamic Development Bank, Saudi Arabia (1993-1996).

Institutional and Professional Services

- Associate Editor, Biomedical Engineering Online (Biomed Central) (May 2011-now).
- Associate Editor, Journal of Engineering and Applied Science (Cairo University Press) (January 2011-now)
- Advisory Board Member, Journal of Medical Imaging and Health Informatics (American Scientific Publishers) (August 2010-now).
- Scientific Program Chair, Third Cairo International Biomedical Engineering Conference, December 2006.

Principal Publications/Presentations from the Past Five Years

1. Zaid Abduh, Ebrahim Ameen Nehary, Manal Abdel Wahed, and Yasser M. Kadah, "Classification of Heart Sounds Using Fractional Fourier Transform Based Mel-Frequency Spectral Coefficients and Stacked Autoencoder Deep Neural Network," Journal of Medical Imaging and Health Informatics, vol. 9, pp. 1–8, 2019.
2. Mugahed A. Al-Antari, Mohammed A. Al-masni, Yasser M. Kadah, "An Automatic Computer-Aided Diagnosis System for Breast Cancer in Digital Mammograms via Deep Belief Network," Journal of Medical and Biological Engineering, vol. 38, pp. 443–456, 2018.
3. Meena M. Makary, Hani M. Bu-Omer, Ramy S. Soliman, Kyungmo Park, Yasser M. Kadah, "Spectral Subtraction Denoising Preprocessing Block to Improve Slow Cortical Potential Based Brain-Computer Interface," Journal of Medical and Biological Engineering, vol. 38, pp. 87–98, 2018.
4. Khaled Sayed, Mahmoud Kamel, Mohammed Alhaddad, Hussein Malibary, Yasser M. Kadah, "Characterization of phase space trajectories for Brain-Computer Interface," Biomedical Signal Processing and Control, vol. 38, pp. 55-66, 2017.
5. Khaled Sayed, Mahmoud Kamel, Mohammed Alhaddad, Hussein Malibary, Yasser M. Kadah, "Extracting Phase Space Morphological Features for EEG-based Brain-Computer Interface," Journal of Medical Imaging and Health Informatics, vol. 7, pp. 771–774, 2017.
6. Mohammed Al-masni, Mugahed A Al-antari, Mohamed K. Metwally, Yasser Kadah, Seung-Moo Han, Tae-Seong Kim, "A Rapid Algebraic 3D Volume Image Reconstruction Technique for Cone Beam Computed Tomography," Biocybernetics and Biomedical Engineering, vol. 37, no. 4, pp. 619-629, 2017.
7. Dina A. Salem, Rania A. Abul Seoud, Yasser M. Kadah, "Prediction of binding peptides to class I Major Histocompatibility Complex using modified scoring matrices and data splitting strategies," Biocybernetics and Biomedical Engineering, vol. 36, no. 3, pp. 509-520, 2016.
8. Zaid Abduh, Manal A. Abdel Wahed, and Yasser M. Kadah, "Robust Computer-Aided Detection of Pulmonary Nodules from Chest Computed Tomography," Journal of Medical Imaging and Health Informatics, vol. 6, no. 3, pp. 693-699, 2016.
9. Dina A. Salem, Rania A. Abulseoud, and Yasser M. Kadah, "Robust Classification of MHC Class II Peptides," Journal of Medical Imaging and Health Informatics, vol. 6, no. 3, pp. 598-608, 2016.
10. Mohammed J. Alhaddad, Mahmoud I. Kamel, Meena M. Makary, and Yasser M Kadah, "Spectral subtraction denoising preprocessing block to improve P300-based brain-computer interfacing," Biomedical Engineering Online, vol. 13:36, 2014.
11. Mohammed J. Alhaddad, Mahmoud Kamel and Yasser M. Kadah, "Investigation of New Unsupervised Processing Methods for P300-Based Brain-Computer Interface," Journal of Medical Imaging and Health Informatics, vol. 4, pp. 363-369, 2014.
12. Ahmed F. Elnokrashy, Marwan Hassan, Tamer Hosny, Ahmed Ali, Alaa Megawer, Amr M. Hendy and Yasser M. Kadah, "Optimized GPU Processing Framework for Surface Rendering in 4D Ultrasound Imaging," Journal of Medical Imaging and Health Informatics, vol. 4, pp. 197-202, 2014.

Recent Professional Development Activities (*Workshops, Trainings etc.*)

Blackboard (Basic and Advanced), Graphic design, Inforgraphics, Massive Open Online Course Principles