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## CURRICULUM VITAE OF PROF. YASSER KADAH

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### BASIC INFORMATION

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**Full Name:** Yasser Mostafa Ibrahim Kadah **Nationality:** Egyptian  
**Work Address:** Electrical and Computer Engineering Department, King Abdulaziz University, Jeddah, Saudi Arabia  
**Email:** [ymk at k-space.org](mailto:ymk@k-space.org) , [ykadah at kau.edu.sa](mailto:ykadah@kau.edu.sa)  
**Personal Web Page:** <http://www.k-space.org>  
**Google Scholar Page:** <http://scholar.google.com/eg/citations?user=4PQuE8sAAAAJ&hl=en>  
**SCOPUS Page:** <http://www.scopus.com/authid/detail.url?authorId=7005419513>  
**Researchgate Page:** [https://www.researchgate.net/profile/Yasser\\_Kadah](https://www.researchgate.net/profile/Yasser_Kadah)  
**YouTube Channel:** <https://www.youtube.com/c/BiomedicalEngineering>

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### EDUCATION

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- **Ph.D., Biomedical Engineering** (July 1997)  
University of Minnesota –Twin Cities, Minneapolis, Minnesota, U.S.A.  
Thesis Title: Novel Reconstruction Techniques in Magnetic Resonance Imaging  
Overall Grade Point Average (GPA): 3.92  
Minor Field of Study: Electrical Engineering
  - **M.Sc., Systems and Biomedical Engineering** (January 1992)  
Systems and Biomedical Engineering Department, Cairo University, Giza, Egypt  
Thesis Title: Design of Linear Array Ultrasound Machine  
Overall Grade Point Average (GPA): 3.5, Rank: Top of class
  - **B.Sc., Systems and Biomedical Engineering** (July 1989)  
Systems and Biomedical Engineering Department, Cairo University, Giza, Egypt  
Graduation Project Title: Computer-Assisted Diagnosis in Ultrasound Imaging  
Overall GPA: 3.98, Rank: Top of Class
  - **Diploma, Islamic Studies** (May 2006)  
Higher Institute of Islamic Studies, Giza, Egypt  
Overall Grade: Very Good
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### WORK HISTORY

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- Professor of Electrical and Computer Engineering (Biomedical Engineering Program), King Abdulaziz University, Saudi Arabia, September 2014: Present.
- Professor of Biomedical Engineering, Faculty of Engineering, Cairo University, Giza, Egypt – March 2009: August 2014.

- Chairman of the Biomedical Engineering Department, Faculty of Engineering, Cairo University, Giza, Egypt – August 2012: July 2013.
- Adjunct Professor and Chair, Computer and Electronics Systems Engineering Department, Cairo Higher Institute of Engineering, September 2011: July 2013.
- Senior Research Scientist, Center for Informatics Sciences, Nile University, Egypt – August 2008: May 2009.
- Associate Professor of Biomedical Engineering, Faculty of Engineering, Cairo University, Giza, Egypt – December 2003: March 2009.
- Consultant, Development Research and Technology Planning Centre, Cairo University, Giza, Egypt – February 2008: February 2010.
- Consultant, Research and Development, International Biomedical Engineering Technologies (IBE Tech), Giza, Egypt – July 2004 : January 2008.
- Consultant, Center for Software and Advanced Biomedical Engineering Consultations, Cairo University, Giza, Egypt – March 2006: May 2008.
- Research Associate, Emory University / Georgia Institute of Technology Biomedical Engineering Department, Atlanta GA, U.S.A. – December 2002: July 2004.
- Assistant Professor of Biomedical Engineering, Faculty of Engineering, Cairo University, Giza, Egypt - September 1998: December 2003.
- Consultant, Research and Development, International Electronics – Biomedical Division, Cairo, Egypt – August 1998: Dec. 2002. (Started the R&D department that later developed and manufactured the first Egyptian diagnostic ultrasound system, which sold more than 1200 units in Egypt so far, among several other things)
- Post-Doc Associate, Center for Magnetic Resonance Research, Department of Radiology, University of Minnesota Medical School, Minneapolis, Minnesota – Feb. 1998: July 1998.
- Visiting Research Professor, Electrical Engineering Department, University of Louisville, June 1997: Feb. 1998.
- Research assistant, Department of Radiology, University of Minnesota Medical School, Minneapolis, Minnesota – Aug. 1996: June 1997.
- Research Assistant, Department of Engineering Math and Computer Science, University of Louisville, Jan. 1993-August 1993.
- Lecturer assistant, Systems and Biomedical Engineering Dept., Cairo University, Cairo, Egypt – 1989:1998 (on-leave of absence between 1993-1998 for Ph.D. study and post-doc training)
- Consultant, International Electronics-Cairo and Universal Sonics (Now DRS)-New Jersey for BIO-CALC package development on VLCUS-1000 ultrasound machine – Feb. 1994: Oct. 1995
- Senior Design Engineer, WISSAM Electronic Design and Manufacturing, Cairo, Egypt - May 1991: Jan. 1993.
- Junior Biomedical Engineer, summer internship in U.S. Naval Medical Research Unit 3 (NAMRU-3), Cairo, Egypt - 1988.

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# HONORS AND PROFESSIONAL AFFILIATIONS

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- Senior Member, Institute of Electrical and Electronic Engineers (IEEE), 2003.
- Senior Member, International Society of Optical Engineering (SPIE), 2015.
- Associate Editor, Biomedical Engineering Online (Biomed Central) (May 2011-now).
- Associate Editor, Journal of Engineering and Applied Science (Cairo University Press) (January 2011-now)
- Associate Editor, Journal of Medical Imaging and Health Informatics (American Scientific Publishers) (August 2010-now).
- Lead Guest Editor, International Journal of Biomedical Imaging Special Issue on Parallel Processing in Medical Imaging Applications, to appear in October 2011.
- Member, reviewing committee for UFFC Outstanding Paper Award (2015, 2016).
- Member, Texas Instruments Expert Advisory Panel (2015-now).
- Included in all 3 official lists for all-time Top 50 Cairo University Authors based on number of publications, number of citations, and h-index (lists of May 2010).
- First Middle East Conference on Biomedical Engineering (MECBME) Scientific Program Co-Chair, Planned for February 2011.
- Medical Imaging Track Chair, IEEE International Conference on Image processing (ICIP), 2009.
- Professor of the Year, Elected by Biomedical Engineering Department graduating classes of (several times).
- Awarded the Cairo University Prize for Scientific Excellence, 2008.
- Selected to receive the 2007 Best Professor in Biomedical Engineering award from Cairo University faculty Club, 2007.
- Awarded the 2005 State Encouragement Award for Engineering Sciences from the Academy of Scientific Research and Technology, 2006.
- Scientific Program Chair, Third Cairo International Biomedical Engineering Conference, December 2006.
- Awarded a Research Achievement Award from Cairo University, 2003.
- Awarded the E.K. Zavirosky award from the International Society for Magnetic Resonance in Medicine (ISMRM) to cover full expenses to attend the ISMRM 10<sup>th</sup> Scientific Meeting in Honolulu, 2002.
- Biography selected and included in *Marquis Who's Who in the World*, 2002.
- Member of the team that developed and manufactured the first Egyptian ultrasound imaging system (1998-2002)
- Awarded the international IDB Merit Scholarship for distinguished scientists from the Islamic Development Bank, Jeddah, Saudi Arabia (1993-1996).
- Awarded student travel stipend from IEEE Ultrasonics, Ferroelectrics and Frequency Control (UFFC) society to attend 1995 IEEE International Ultrasonics Symposium, Seattle, Washington.

- Awarded student travel stipend from the International Society of Magnetic Resonance in Medicine (ISMRM) to attend the annual meetings of the society of 1996 and 1997.
- Reviewer for the following international publications:
  - Magnetic Resonance in Medicine
  - IEEE Transactions on Medical Imaging
  - IEEE Transactions on Biomedical Engineering
  - IEEE Transactions on Circuits and Systems II
  - Medical and Biological Engineering and Computing
  - Journal of Zhejiang University Science
  - Pattern Analysis and Applications Journal
  - BioSystems
  - Computer Vision and Image Understanding
  - Journal of Engineering and Applied Sciences
  - Journal of Mathematical Imaging and Vision
  - Biomedical Engineering Online
  - International Journal of Biomedical Imaging
  - Journal of Medical Imaging and Health Informatics
  - IET Computer Vision
  - Biomedical Signal Processing and Control
  - ETRI Journal
  - Journal of King Abdulaziz University - Engineering Sciences
 (reviewed more than 90 papers for these journals since 1997).
- Reviewer for the following international conferences:
  - Middle East Conference on Biomedical Engineering (MECBME), 2011, 2014.
  - National Radio Science Conference (NRSC), 2007-2013, Egypt.
  - Cairo International Biomedical Engineering Conference (CIBEC), 2004-2012.
  - IEEE International Conference on Image Processing (ICIP), 2010, Hong Kong, China.
  - IEEE Engineering in Medicine and Biology Conference (EMBC), 2010, Buenos Aires, Argentina.
  - International Society of Magnetic Resonance in Medicine (ISMRM) Annual 15<sup>th</sup> Scientific Meeting, Stockholm, Sweden, 2010.
  - IEEE International Conference on Image Processing (ICIP), 2009, Cairo, Egypt.
  - IEEE Engineering in Medicine and Biology Conference (EMBC), 2009, Minneapolis, U.S.A.
  - International Society of Magnetic Resonance in Medicine (ISMRM) Annual 14<sup>th</sup> Scientific Meeting, Honolulu, U.S.A., 2009.
  - The 4<sup>th</sup> Cairo International Biomedical Engineering Conference, Cairo, Egypt, 2008.
  - IEEE Engineering in Medicine and Biology Conference (EMBC), 2008, Vancouver, Canada.
  - The 2008 International Conference on Computer Engineering & Systems (ICCES'08), Cairo, Egypt.

- The 2007 International Conference on Computer Engineering & Systems (ICCES'07), Cairo, Egypt.
- IEEE Engineering in Medicine and Biology Conference (EMBC), 2007, Lyon, France, 2007.
- International Society of Magnetic Resonance in Medicine (ISMRM) Annual 14<sup>th</sup> Scientific Meeting, Seattle, U.S.A., 2006.
- International Society of Magnetic Resonance in Medicine (ISMRM) Annual 13<sup>th</sup> Scientific Meeting, Miami, 2005.
- The 2<sup>nd</sup> Biannual Cairo International Biomedical Engineering Conference, Cairo, 2004.
- IEEE Midwest Symposium on Circuits and Systems, Cairo, 2003.
- Reviewer for the following funding agencies:
  - Science and Technology Development Fund (STDF)
  - ITIDA-ITAC (Information Technology Academia Collaboration)
  - Cairo University Research Grants
- Member of the International Society of Magnetic Resonance in Medicine (ISMRM) (1997-present).
- Member of the International Society for Optical Engineering (SPIE) (2001-present)
- Member of the Institute of Electrical and Electronic Engineers (IEEE) (2001-2003, became a Senior Member since 2003)
- Member of the Tissue Engineering and Regenerative Medicine International Society (TERMIS) (2007-present).
- Member of the American Institute of Ultrasound in Medicine (AIUM) (2010-present).
- Member of the Association for Advancement of Medical Instrumentation (AAMI) (2010-present)
- Member of the University of Minnesota Alumni Association (1997-present).
- Member of the Egyptian Syndicate of Engineers (1989-present) and a syndicate-certified consultant of medical instrumentation (starting 2013).
- Top of 1989 graduation class at the Systems and Biomedical Engineering Department, Cairo University, Egypt.
- Ranked 6<sup>th</sup> on Mathematics Section of the General Secondary Education Exam (out of a total of more than 250,000 students taking the same exam), 1984.

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## INDUSTRIAL PROJECTS

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1. Development of a PC-based low-end ultrasound system. (consultant for International Electronics, Medical Division, 1998-2000)
2. Development of a line of embedded medical products including soft lasers and oxygen concentrator (consultant for IBE Technologies, 1999-2000)
3. Development of a PC-based multi-parameter patient monitor (consultant for International Electronics, Medical Division, 2000-2002)
4. Development of a PC-based ultrasonic bone densitometer (consultant for International Electronics, Medical Division, 2000-2002)

5. Development of a multiecho diffusion tensor imaging sequence (consultant for Siemens Medical Systems)
6. Development of a processing strategy to improve image reconstruction in ultrasound imaging (consultant for IBE Technologies, 2004-2006)
7. Assistance in implementation of ISO 13485 (consultant for IBE Technologies, 2004-2006)
8. Development of an image quality assurance procedure (consultant for IBE Technologies, 2004-2006)
9. Development of specifications and tender bid evaluation for MRI systems (consultant for CASBEC, Cairo University)
10. Development of digital beamformer for ultrasound imaging applications (Principal Investigator, Development Research and Technology Planning Centre, Cairo University,
11. Development of PC-based Doppler ultrasound imaging system (Principal Investigator, Development Research and Technology Planning Centre, Cairo University, February 2008- February 2010 ).
12. Development of a PC-Based High-End 4D Ultrasound Imaging System (Principal Investigator, Faculty of Engineering, Cairo University, January 2010- ongoing).

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## MAJOR RESEARCH GRANTS AWARDED

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### PROJECT #1

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<b>Project Title:</b>	Design and development of a PC-based Doppler ultrasound imaging system
<b>Value of Contract:</b>	EGP 700,000.00
<b>Principal Investigator:</b>	Yasser M. Kadah
<b>Affiliation:</b>	Development Research and Technological Planning Centre (DRTPC) – Cairo University
<b>Starting Date:</b>	February 2008
<b>Period:</b>	2 Years
<b>Awarding Authority:</b>	The R&D Project Program (Joint program between Ministry of Scientific Research STDF and Ministry of Industry and Trade)
<b>Beneficiary Industrial Entity:</b>	International Biomedical Engineering Technologies, Egypt
<b>Intellectual Property Ownership:</b>	Owned by Ministry of Scientific Research STDF and licensed to beneficiary industrial entity

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### PROJECT #2

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<b>Project Title:</b>	Design and development of a high-end beamformer for ultrasound imaging applications
<b>Value of Contract:</b>	EGP 850,000.00
<b>Principal Investigator:</b>	Yasser M. Kadah

**Affiliation:** Development Research and Technological Planning Centre (DRTPC) – Cairo University  
**Starting Date:** February 2008  
**Period:** 2 Years  
**Awarding Authority:** The R&D Project Program (Joint program between Ministry of Scientific Research STDF and Ministry of Industry and Trade)  
**Beneficiary Industrial Entity:** International Biomedical Engineering Technologies, Egypt  
**Intellectual Property Ownership:** Owned by Ministry of Scientific Research STDF and licensed to beneficiary industrial entity

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### PROJECT #3

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**Project Title:** Development of a PC-Based High-End 4D Ultrasound Imaging System  
**Value of Contract:** EGP 2,700,000.00  
**Principal Investigator:** Yasser M. Kadah  
**Affiliation:** Cairo University  
**Starting Date:** January 2010  
**Period:** 2 Years  
**Awarding Authority:** ITIDA (Ministry of Telecommunications)  
**Beneficiary Industrial Entity:** International Biomedical Engineering Technologies, Egypt  
**Intellectual Property Ownership:** Owned by industrial entity

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### PROJECT #4

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**Project Title:** Establishment of Rehabilitation Engineering and Bionics Lab at Cairo University  
**Value of Contract:** EGP 2,905,000.00  
**Principal Investigator:** Yasser M. Kadah  
**Affiliation:** Cairo University  
**Starting Date:** September 2012  
**Period:** 1 Year  
**Awarding Authority:** STDF (Capacity Building Grant Program)

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## TEACHING ACTIVITY

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- Mathematical Methods in Biomedical Engineering (EE 684 – KAU), Spring 2016.
- Biomedical Signals and Systems (EE 470 – KAU), Summer 2015, Spring 2016.
- Biomedical Signal Processing (EE 675 – KAU), Fall 2015, Spring 2016.
- Biomedical Engineering Primer (EE 370 – KAU), Spring/Fall 2015.
- Medical Equipment I/II/III/IV (BME junior and senior levels), 2007-2014.

- Medical Instrumentation (Senior undergrads) (2012-2013)
- Signals and Systems (Sophomore undergrads) (2011-2012)
- Microprocessors and Interfacing (Sophomore undergrads) (2011-2012)
- Embedded Systems (Senior undergrads) (2011-2012)
- Digital Signal Processing (Sophomore undergrads) (2011-2012)
- Electronic System Design (Senior undergrads) (2011-2012)
- Modeling and Simulation (Senior undergrads) (2011-12)
- Medical Image Reconstruction (Grad students) (2009-2010, 2011-2013)
- Ultrasound Bioinstrumentation (Grad students) (2009-2010)
- Advanced Topics in Systems Engineering (Grad students)(2010-2011)
- Ultrasound Bioinstrumentation (Grad students), 2009-2010.
- Advanced Topics in Biomedical Engineering (Grad students), 2009-2011.
- Physics in Medicine and Biology (Grad students), 2009-2011.
- Medical Electronics III/IV (BME seniors), 2007-2009.
- Multidimensional Signal Processing (BME Seniors), 2007-2008.
- Medical Equipment (BME seniors) (1998-2002, 2004-2006).
- Digital Signal Processing (BME graduate students) (2000-2002, 2004-2005, 2006-2008).
- Biomedical Image Processing (BME graduate students) (1998-2000).
- Advanced Topics in Biostatistics I (BME seniors) (2000-2001)
- Systems I: Matrix Computation (BME graduate students) (2001-2002).
- Graduation Projects (BME seniors):
  - Cortical flattening (1998-1999)
  - Inhomogeneity correction in MRI (1998-1999)
  - Functional MRI physiological monitoring (1998-1999)
  - Ultrasound bone densitometer design (1998-1999)
  - Ultrasound analog front end design (1998-1999)
  - EEG sleep analysis (1999-2000)
  - PC-based pulse oximeter design (1999-2000)
  - Mechanical sector ultrasound system design (1999-2000)
  - Continuous-wave Doppler ultrasound system design (1999-2000)
  - Tool sterilizer design (1999-2000)
  - A-mode ultrasound system design (1999-2000)
  - Software for psycho-physiological studies (1999-2000)
  - Electro-surgical unit design (1999-2000)
  - Deformable models and finite element analysis of human brain (1999-2000)
  - Data coding for medical information transmission (2000-2001)
  - PC-based Doppler signal processing (2000-2001)
  - DSP-based Doppler signal processing (2001-2002)
  - Beamformer design in ultrasound imaging (2001-2002)
  - Embedded bile checker design (2001-2002)
  - Embedded pulse oximeter design (2001-2002)
  - Ultrasound imaging system (2004-2005)
  - Brain-Computer Interface (BCI) (2004-2005, 2005-2006)
  - FPGA-based Doppler processing (2005-2006)



- FPGA-based B-mode ultrasound imaging (2005-2006)
- Computer aided diagnosis for digital mammography (2005-2006)
- Bioinformatics data processing (2005-2006)
- Hearing Aid design (2006-2007)
- Infant incubator with monitoring (2006-2007)
- Electrosurgical unit design (2006-2007)
- Embedded brain-computer design (2006-2007)
- 4D ultrasound imaging (2008-2009)
- Digital ultrasound beamformer (2008-2009)
- Parallel computing toolbox in medical image reconstruction (I/II). (2010-11)
- Embedded digital A-mode ultrasound device. (2010-11)
- Embedded real-time DSP on FPGAs for medical devices. (2010-2011)
- Computed Tomography Image Reconstruction (2011-2012)
- Navigation assistance for the blind. (2011-2012)
- High performance computing in medical image processing (2011-2012)
- Embedded image reconstruction on Beagleboard (2012-2013)
- Embedded Fall Detection System (2015)
- BCI-Based Assistance to the Handicapped (2016)
- Multi-parameter Patient Simulator (2016)

**(Total Number of Supervised Project Students: 231 students)**

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## PAST GRADUATE STUDENTS

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### DOCTORAL STUDENTS

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1. Nahed H. Solouma (Ph.D. 2001): Now a Professor at King Abdel-Aziz University, Saudi Arabia.
2. Mohamed I. Owis (Ph.D. 2001): Now an Assistant Professor at Cairo University.
3. Bassem K. Ouda (Ph.D. 2002): Now an Assistant Professor at Cairo University.
4. Yasser Sherif (Ph.D. 2003): Now the President/CEO of Innovia Tech, Canada.
5. Nour Shabrawy (Ph.D. 2007): Now regional manager of a biomedical engineering company based in the Gulf region.
6. Shereen Elmetwally (Ph.D., 2008): Now an associate professor at Cairo University
7. Mai Mabrook (Ph.D., 2008): Now an associate professor and Biomedical Engineering department chairman at Misr University for Science and Technology.
8. Rania Aboulseoud (PhD., 2008): Now an associate professor at Fayoum University.
9. Mohamed Alolfe (Ph.D., 2009): Now an assistant professor in Yemen.
10. Fadhl Alakwaa (Ph.D., 2009): Now a research associate at University of Hawaii.
11. Wael Abdel-Rahman (Ph.D., 2009): Now an assistant professor in Benha Higher Institute of Technology.
12. Haitham Mohamed (Ph.D., 2010): Now an Application Specialist at Siemens Medical Systems.

13. Khaled Elsayed (Ph.D., 2011): Now an assistant professor at Banha University.
14. Vidan Ghoneim (Ph.D., 2011): Now an assistant professor at Helwan University.
15. Tamer Nassef Ph.D., 2012): Now an assistant professor and Computer Engineering department chairman at Misr University for Science and Technology.
16. Mawia Hassan (Ph.D., 2011): Now a research associate professor at University of Texas, Dallas.
17. Ashraf Mahroos (Ph.D., 2011): Now an assistant professor at Menia University.
18. Wael Aboulwafa (Ph.D., 2011): Now an assistant professor at Menia University.
19. Nagwan Abdel-Samee (Ph.D., 2012): Now an assistant professor at Princess Nora University, Saudi Arabia.
20. Zeinab Mohamed (Ph.D., 2012): Now an assistant professor in Sudan.
21. Banazier Abraham (Ph.D., 2012): Now an assistant professor in Sudan.
22. Heba Afifi (Ph.D., 2012): Now an assistant professor at Modern University.
23. Sulieman Zobly (PhD, 2012): Now an assistant professor in Sudan.
24. Ahmed Nokrashy (PhD, 2014): Now as assistant professor at Benha University.
25. Dina A. Salem (PhD, 2015): Now as assistant professor at Misr University for Science and Technology.
26. Fayroz Farouk (PhD, 2017): Now an assistant researcher at National Research Center.

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#### MASTER'S DEGREE STUDENTS

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1. Ahmed S. Fahmy (M.Sc. 2000): Now an Associate Professor at Cairo University.
2. Khaled Z. Abdel-Monem (M.Sc. 2000): Now a Researcher at National Institutes of Health, U.S.A.
3. Abdel-Monem Al-Sharkawy (M.Sc. 2001): Now a research faculty at the Johns Hopkins University.
4. Ahmed M. Ghanem (M.Sc. 2001): Now an assistant professor at Suez Canal University.
5. Ayman M. Khalifa (M.Sc. 2001): Now an associate professor at Helwan University.
6. Ahmed H. Abou-Zeid (M.Sc. 2001): Now a Marketing manager, Chemilab Medical.
7. Nour S. Shabrawy (M.Sc. 2002): Now manager of a Biomedical Consultations company.
8. Ayman A. Abaza (M.Sc. 2002): Now a research faculty at the University of West Virginia.
9. Diaa Yosry (M.Sc. 2002): Now a Research Manager at IBM, Canada.
10. Ahmed M. Nasr (M.Sc. 2002): Now Service Manager, Fatemia Medical.
11. Mohamed Mostafa (M.Sc. 2002): Now the CEO of Philips Medical Systems, Saudi Arabia.
12. Momen Abou-Alwafa (M.Sc. 2002): Now a Manager at Philips Medical Systems, Egypt.
13. Mona Hamed (M.Sc. 2002): Now a Ph.D. student at Cairo University.
14. Tamer Youssef (M.Sc. 2003): Now a research associate at Harvard University.
15. Refaat E. Gabr (M.Sc. 2003): Now an assistant professor at the University of Texas at Houston.
16. Zyad Farouk (M.Sc. 2003): Now a manager at a software company based in Cairo.
17. Nader Metwalli (M.Sc. 2004): Now a research associate at National Institutes of Health, U.S.A.
18. Haitham Mohamed (M.Sc. 2004): Now a Product Specialist with Siemens Medical Systems.

19. Walid Atabany (M.Sc. 2004): Now an associate professor at Helwan University.
20. Mai Mabrook (M.Sc. 2004): Now an associate professor at Misr University for Science and Technology.
21. Ashraf Mahroos (M.Sc. 2005): Now as assistant professor at Menia University
22. Islam Abdel-Azeem (M.Sc. 2006): Now an assistant professor at a Saudi university.
23. Mohamed Al-Olfe (M.Sc. 2006): Now an assistant professor in Yemen.
24. Asmaa Farahat (M.Sc. 2006): Now an assistant researcher at the Electronics Research Institute, Egypt.
25. Inas Yassine (M.Sc. 2006): Now an associate professor at Cairo University.
26. Ahmed Ehab (M.Sc. 2006): Now an associate professor at Cairo University.
27. Vidan Ghoneim (M.Sc. 2006): Now an assistant professor at MUST.
28. Heba Afifi (M.Sc. 2006): Now a an assistant professor at Modern University.
29. Mawia Hassan (M.Sc. 2006): Now a research associate professor at university of Texas, Dallas.
30. Akram Amara (M.Sc. 2007): Now a PhD student in Sudan.
31. Mohamed Omar (M.Sc. 2007): Now an assistant professor at MUST.
32. Omer Gaddoura (M.Sc. 2007): Now a PhD student in China.
33. Mohsen Gabr (M.Sc. 2007): Now a senior engineering manager at Fresenius, Egypt.
34. Ahmed Elnokrashy (M.Sc. 2007): Now a senior design engineer at IBE Tech, Egypt.
35. Diaa Al-Rahman Mahmoud (M.Sc. 2007): Now a senior engineer at Toshiba Egypt.
36. Haitham Alhathik (M.Sc. 2007): Now a field engineer at CASBEC, Cairo University
37. Nora Negm (M.Sc. 2007): Now a research assistant at Laser Institute, Cairo University.
38. Banzier Abraham (M.Sc. 2007): Now an assistant professor in Sudan.
39. Zeinab Mohammed (M.Sc. 2007): Now an assistant professor in Sudan.
40. Osama Hassan (M.Sc. 2007): Now a Lecturer Assistant in Sudan.
41. Tamer Naseif (M.Sc. 2007): Now an assistant professor at MUST.
42. Eman Khier (M.Sc. 2007)
43. Hamed Hussein (M.Sc. 2008): Now a senior service engineer at Toshiba, Egypt.
44. Shaimaa Saad (M.Sc. 2008): Now a PhD student at Cairo University
45. Michael Ghaly (M.Sc. 2008): Now a PhD student at Johns Hopkins University.
46. Kawther Tom (M.Sc. 2008): Now a Lecturer Assistant in Sudan.
47. Mazen Abugroon (M.Sc. 2008): Now a Lecturer Assistant in Sudan.
48. Marwa Tawfik (M.Sc. 2008): Now a PhD student at the university of Louisville.
49. Azza Sayed (M.Sc. 2008): Now a Lecturer Assistant at Helwan University.
50. Abeer Selim (M.Sc. 2009): Now a senior engineer at IBM.
51. Michael Habib (M.Sc. 2009): Now a PhD student in Australia
52. Enas Ismail (M.Sc. 2009): Now a PhD student in Italy.
53. Kamel Taofek (M.Sc. 2010): Now a PhD student at Cairo University.
54. Reeham Gabr (M.Sc. 2010): Now a senior biomedical engineer at Sheikh Zayed Hospital.
55. Osama Elsayed (M.Sc. 2010): Now a Design Center Manager at Egyptian Space Program
56. Montasir Mansour (M.Sc. 2011): Now a Lecturer Assistant in Sudan.
57. Mostafa Farghaly (M.Sc. 2011): Now a senior biomedical engineer in a local company.
58. Fayroz Farouk (M.Sc. 2011): Now a Lecturer Assistant in Modern University.

59. Basem Barakat (M.Sc., 2012): Now a senior design at Valeo.
60. Yassin Amer (M.Sc., 2013): Now a Ph.D. student at University of Pittsburgh.
61. Marwan Hussein (M.Sc., 2013): Now a PhD student at the Johns Hopkins University.
62. Meena Makary (M.Sc., 2013): Now a post-doc fellow at Yale university.
63. Mohamed Altaher (M.Sc., 2013): Now a Biomedical Engineer in Saudi Arabia.
64. Zaid Alsaidy (M.Sc., 2014): Now a Ph.D. student at Cairo University
65. Eman Ayman (M.Sc., 2014): Now a Ph.D. student at Cairo University
66. Mohammed Almasani (M.Sc., 2015): Now a PhD student at Kyung-Hee Univ., Korea
67. Mugahed Al-Antari (M.Sc., 2015): Now a PhD student at Kyung-Hee Univ., Korea
68. Aya Fawzy (M.Sc., 2015): Now a PhD student at the University of Pittsburgh
69. Khaled Sayed (M.Sc., 2015): Now a PhD student at the University of Pittsburgh
70. Hesham Abouelsaoud (M.Sc., 2015): Now a PhD student at Cairo University
71. Mostafa Altager (M.Sc., 2016): Now a teaching assistant at American University in Cairo
72. Mohamed Moselhy (M.Sc., 2016): Now a senior engineer at Valeo.
73. Hesham Elsayem (M.Sc. 2016): Now a lecturer assistant at Cairo University
74. Ola Sarhan (M.Sc. 2017): Now Now a lecturer assistant at Cairo University
75. Hani Bu-Omer (M.Sc. 2017): Now a doctoral candidate

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## INTERNATIONAL CONFERENCE PRESENTATIONS

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- The Cairo International Biomedical Engineering Conference (CIBEC 2014), Cairo Egypt, 2014) (1 presentation).
- The 4th International Conference on Image Processing Theory, Tools and Applications (IPTA) (Paris, France, 2014) (1 presentation).
- The Second Middle East Conference on Biomedical Engineering (MECBME 2014), Sharjah, UAE (2 presentations).
- The 30<sup>th</sup> Annual National Radio Science Conference (NRSC'2013), Cairo, Egypt, 2013 (2 presentations).
- International Conference on Computer Medical Applications (ICCMA), Tunisia, 2013 (1 presentation).
- The Cairo International Biomedical Engineering Conference (CIBEC 2012), Cairo Egypt, 2012) (5 presentations).
- The 29<sup>th</sup> Annual National Radio Science Conference (NRSC'2012), Cairo, Egypt, 2012 (5 presentations).
- The 28<sup>th</sup> Annual National Radio Science Conference (NRSC'2011), Cairo, Egypt, 2011 (6 presentations).
- The First Middle East Conference on Biomedical Engineering (MECBME 2011), Sharjah, UAE (8 presentations).
- SPIE Medical Imaging 2010, San Diego, U.S.A. (4 presentations).

- The 27<sup>th</sup> Annual National Radio Science Conference (NRSC'2010), Menouf, Egypt, 2010 (10 presentations).
- 2009 IEEE International Ultrasonics Symposium, Rome, Italy, 2009 (2 presentations).
- International Society of Magnetic Resonance in Medicine 17<sup>th</sup> Annual Scientific Meeting, Honolulu, U.S.A., 2009 (1 presentation).
- IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology, Nashville, U.S.A., 2009 (1 presentation).
- The 26<sup>th</sup> Annual National Radio Science Conference (NRSC'09), Cairo, Egypt, 2009 (8 presentations).
- The 4<sup>th</sup> Cairo International Biomedical Engineering Conference (CIBEC'08), Cairo Egypt, 2008 (10 presentations).
- The 25<sup>th</sup> Annual National Radio Science Conference (NRSC'08), Tanta, Egypt, 2008 (4 presentations).
- The 2007 International Conference on Computer Engineering & Systems (ICCES'07), Cairo, Egypt (3 presentations).
- IEEE Engineering in Medicine and Biology Conference (EMBC), 2007, Lyon, France (1 presentation)
- Cairo International Biomedical Engineering Conference 2006 (CIBEC'06), Cairo, Egypt (17 presentations).
- ISMRM 14<sup>th</sup> Scientific Meeting, Seattle, U.S.A., 2006 (1 presentation)
- National Radio Science Conference 2006, Menouf, Egypt (4 presentations).
- ISMRM 13<sup>th</sup> Scientific Meeting, Miami, U.S.A., May 2005 (1 presentation)
- SPIE Medical Imaging 2005, San Diego, U.S.A., February 2005 (1 presentation)
- 2<sup>nd</sup> Cairo International Biomedical Engineering Conference, Cairo, December 2004 (4 presentations)
- ISMRM 12<sup>th</sup> Scientific Meeting, Kyoto, Japan, May 2004 (4 presentations)
- ISMRM 11<sup>th</sup> Scientific Meeting, Toronto, Canada, July 2003 (3 presentations)
- SPIE Medical Imaging 2003, San Diego, U.S.A., February 2003 (8 presentations)
- ISMRM 10<sup>th</sup> Scientific Meeting, Honolulu, U.S.A., May 2002 (5 presentations)
- SPIE Medical Imaging 2002, San Diego, U.S.A., February 2002 (5 presentations)
- IEEE Engineering in Medicine and Biology Society Conference (EMBC-2001), Istanbul, Turkey, October 2001 (4 presentations)
- ISMRM 9<sup>th</sup> Scientific Meeting, Glasgow, Scotland, April 2001 (2 presentations)
- SPIE Medical Imaging 2001, San Diego, U.S.A., February 2001 (6 presentations)
- ISMRM 8<sup>th</sup> Scientific Meeting, Denver, U.S.A., April 2000.
- ISMRM 4<sup>th</sup> Scientific Meeting, New York, U.S.A., May 1996. (1 presentation)
- IEEE 1995 International Ultrasonics Symposium, Seattle, U.S.A., October 1995 (2 presentations)
- IEEE Engineering in Medicine and Biology Society Conference (EMBC-95), Montreal, Canada, September 1995 (2 presentations)
- Second IASTED International Conference on Computer Applications in Industry, Alexandria, Egypt, May 1992 (one presentation).

- Mediterranean & African Ultrasound Society Meeting, Cairo, Egypt, January 1990 (one presentation).

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## TRAINING COURSES/CERTIFICATIONS

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- Radiographic equipment instrumentation and safety course, Wuestec Medical, Mobile, Alabama, U.S.A., 1998.
- Radiographic Society of North America (RSNA) 1998 Meeting, Chicago, U.S.A.
- Radiographic Society of North America (RSNA) 1999 Meeting, Chicago, U.S.A.
- ISMRM Workshop on MRI Hardware Design, Cleveland, Ohio, U.S.A., 2001.
- ISMRM 2-Day Educational Courses, Honolulu, Hawaii, U.S.A., 2002.
- MRI Sequence Programming Course, Siemens Medical, Cary, North Carolina, U.S.A., 2002.
- IRB Basic Certification A for handling human subjects in clinical investigation, Emory University, Atlanta, Georgia, U.S.A. 2003.
- Training course on Teaching to Large and Small Groups, Cairo University, 2006.
- Training course on Management of Scientific Research, Cairo University, 2006.
- Training course on Bioinformatics Principles and Applications, MUST University, 2006.
- Training course on Decision Making and Problem Solving Skills, Cairo University, 2007.
- Training course on Time and Work Stress Management, Cairo University, 2007.
- Training course on Using Technology in Teaching, Cairo University, 2007.
- Training course on Development of Management Skills, Cairo University, 2007.

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## TEXTBOOKS

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1. **Yasser Kadah**, *Novel Reconstruction techniques for Magnetic Resonance Imaging*, Scholars' Press, Germany, 2015. (ISBN: 978-3-639-76196-2)
2. Mohammed Almasani and **Yasser Kadah**, *3D Image Reconstruction Techniques for Cone Beam Computed Tomography*, Scholars' Press, Germany, 2015. (ISBN: 978-3-639-76408-6)  
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3. Mugahed Al-Antari and **Yasser Kadah**, *Computer-Aided Breast Cancer Diagnosis from Digital Mammograms*, Scholars' Press, Germany, 2015. (ISBN: 978-3639763829)
4. Mohamed Elmannan and **Yasser Kadah**, *Computer Aided Diagnosis System for Digital Mammography*, Scholars' Press, Germany, 2015. (ISBN: 978-3639763881)
5. Meena M. Makary and **Yasser M. Kadah**, *Processing Methodologies For Brain Computer Interface*, LAP Lambert Academic Publishing, Germany, 2014. (ISBN: 978-3-659-56019-4)
6. Azza Hassanein, **Yasser Kadah**, Mohamed Eladawy, *Molecular Classification Of Cancer By Gene Expression Monitoring*, LAP Lambert Academic Publishing, Germany, 2013. (ISBN: 978-3-659-35455-7)

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- Xiaoping Hu and **Yasser M. Kadah**, *Method and apparatus for spatial encoding using pseudo-Fourier imaging*, United States Patent 6,573,714 (Issued June 3, 2003).

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1. 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. (IF: 0.989)
2. 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. (IF: 0.989)
3. 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. (IF: 2.214)
4. 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. (IF: 0.621)
5. 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. (IF: 1.031)
6. Mugahed A. Al-antari, Mohammed A. Al-masni, **Yasser M. Kadah**, "Hybrid Model of Computer-Aided Breast Cancer Diagnosis from Digital Mammograms," *Journal of Scientific and Engineering Research*, vol. 4, no. 2, pp. 114-126, 2017.
7. Fayroz F. Farouk, Nourhan Zayed, Mahmoud Fakhr, Manal A. Wahed and **Yasser M. Kadah**, "Predictive Models for Alzheimer's Disease using Integrated Statistical and Biological Epistasis Interactions," *International Journal of Biology and Biomedical Engineering*, vol. 11, pp. 11-24, 2017.
8. 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. (IF: 1.031)
9. 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. (IF: 0.621)

10. 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. (IF: 0.621)
11. 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. (IF: 1.683)
12. 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. (IF: 0.621)
13. 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. (IF: 0.621)
14. Mawia A. Hassan and **Yasser M. Kadah**, "Digital Signal Processing Methodologies for Conventional Digital Medical Ultrasound Imaging System," *American Journal of Biomedical Engineering*, vol. 3, no. 1, pp. 14-30, 2013.
15. Dina A. Salem, Rania A. Abulseoud, and **Yasser M. Kadah**, "Conformational B-cell epitopes classification using machine learning techniques," *Journal of Engineering and Applied Science*, August 2013.
16. Sulieman M. S. Zobly and **Yasser M. Kadah**, "Clutter Rejection for Doppler Ultrasound Based on Blind Source Separation," *Journal of Medical Imaging and Health Informatics*, vol. 3, pp. 187-194, 2013. (IF: 0.621)
17. Nagwan M. Abdel Samee, Nahed H. Solouma, and **Yasser M. Kadah**, "Detection of biomarkers for Hepatocellular Carcinoma using a hybrid univariate gene selection methods," *Theoretical Biology and Medical Modelling*, vol. 9, no. 34, 2012. (IF: 1.46)
18. Zeinab A. Mustafa, Banazier A. Abraham, Inas A. Yassine, Nourhan Zayed and **Yasser M. Kadah**, "Wavelet Domain Bilateral Filtering with Subband Mixing for Magnetic Resonance Image Enhancement," *Journal of Medical Imaging and Health Informatics*, vol. 2, pp. 230-237, 2012. (IF: 0.621)
19. Banazier A. Abraham, Zeinab A. Mustafa, Inas A. Yassine, Nourhan Zayed, and **Yasser M. Kadah**, "Hybrid Total Variation and Wavelet Thresholding Speckle Reduction for Medical Ultrasound Imaging," *Journal of Medical Imaging and Health Informatics*, vol. 2, pp. 114-124, 2012. (IF: 0.621)
20. Fayroz F. Sherif, Mahmoud El-Hefnawy, **Yasser M. Kadah**, "Influenza subtyping and host classification using profile hidden markov models," *Journal of Mechanics in Medicine and Biology*, vol. 12, no. 2, pp. 1240009, 2012. (IF: 0.934)
21. Fadhl M. Alakwaa, Nahed H. Solouma, **Yasser M. Kadah**, "Construction of Gene Regulatory Networks using biclustering and Bayesian networks," *Theoretical Biology and Medical Modelling*, vol. 8, no. 39, 2011. (IF: 1.46)
22. Khaled S Ahmed, Nahed H Saloma, **Yasser M Kadah**, "Improving the prediction of yeast protein function using weighted protein-protein interactions," *Theoretical Biology and Medical Modelling*, vol. 8, no. 11, 2011. (IF: 1.46)
23. Ahmed A. Hameed Sayed, Nahed H. Solouma, Amal A. El-Berry, and **Yasser M. Kadah**, "Finite element models for computer simulation of intrastromal photorefractive keratectomy," *Journal of Mechanics in Medicine and Biology*, vol. 11, No. 4, 2011. (IF: 0.934)



24. Samir M. Badawi, Wael Abou EL-wafa. Ahmed, **Yasser M. Kadah**, "Magnetized water and saline as a Contrast agent to Enhance MRI Images," *Life Science Journal*, Volume 8, Issue 1, 2011.
25. Wael Abou EL-wafa. Ahmed, **Yasser M. Kadah**, Samir M. Badawi, "Monte Carlo method and the Ising model for magnetized and non-magnetized water as MRI contrast agent," *Journal of American Science*, vol. 7, no. 1, 2011.
26. Moustafa Bani Hasan, Fatma Elhefnawy, Mohamed E. Rasmy, and **Yasser M. Kadah**, "Model-Based Parameter Estimation Applied on Electrocardiogram Signal," *Journal of Computational Biology and Bioinformatics Research*, vol. 3, no.2, pp. 25-28, 2011.
27. Khaled S. Ahmed, Nahed H. Solouma, **Yasser M. Kadah**, "Determining The Relations Between Protein Sub-Function Categories Based On Overlapping Proteins," *Journal of Communication and Computer*, 2011.
28. **Yasser M. Kadah**, "Overlapped k-space acquisition and reconstruction technique for motion artifact reduction in magnetic resonance imaging," *Journal of Medical Imaging and Health Informatics*, vol. 1, no. 1, pp. 61-65, 2011. (IF: 0.621)
29. Moustafa A. Bani-Hasan, **Yasser M. Kadah**, and Fatma M. El-Hefnawi, " Identification of Cardiac Arrhythmias using Natural Resonance Complex Frequencies," *International Journal of Biological and Life Sciences*, vol. 6, no. 3, pp. 143-149, 2010.
30. **Yasser M. Kadah** and Inas A. Yassine, "Multi-component fiber track modelling of diffusion-weighted magnetic resonance imaging data," *Journal of Advanced Research*, vol. 1, pp. 26-38, 2010.
31. S.M. El-Metwally, K.Z. Abd-Elmonem, A.M. Youssef, and **Y.M. Kadah**, "Rapid cardiac MRI using random radial trajectories," *Journal of Engineering and Applied Science*, vol. 55, no. 5, pp. 441-456, 2008.
32. Mai S. Mabrouk, Nahed H. Solouma, Abou-Bakr M. Youssef, and **Yasser M. Kadah**, "Eukaryotic Gene Prediction by an Investigation of Nonlinear Dynamical Modeling Techniques on EIIP Coded Sequences," *International Journal of Biological and Life Sciences*, vol. 3, no. 4, pp. 225-230, 2007.
33. Rania A. Abul Seoud, Nahed H. Solouma, Abou-Bakr M. Youssef, and **Yasser M. Kadah**, "PIELG: A Protein Interaction Extraction System using a Link Grammar Parser from biomedical abstracts," *International Journal of Biological and Life Sciences*, vol. 3, no. 3, pp. 169-179, 2007.
34. Mohammed A. Alolfe, Abou-Bakr M. Youssef and **Yasser M. Kadah**, "Optimal Design of Selective Excitation Pulses in Magnetic Resonance Imaging using Genetic Algorithms," *International Journal of Biological and Life Sciences*, vol. 3, no. 2, pp. 129-141, 2007.
35. **Yasser M. Kadah**, "Fast Segmented Reconstruction Technique for Magnetic Resonance Imaging under B0 Inhomogeneity," *Journal of Bioinformatics and Medical Engineering*, vol. 8, no. 1, pp. 7-15, 2008.
36. **Y. Kadah**, "Motion artifact suppression in MRI using registration of segmented acquisitions," *Journal of Engineering and Applied Science*, vol. 54, no. 6, pp. 673-688, Dec. 2007.
37. N.S. Shabrawy, A.S. Mohamed, A.M. Youssef and **Y.M. Kadah**, "Robust ICA analysis for event-related functional magnetic resonance imaging data," *Journal of Engineering and Applied Science*, vol. 54, no. 4, pp. 463-479, Aug. 2007.

38. Shereen M. El-Metwally, **Yasser M. Kadah**, Ahmed S. Fahmy, and Nael F. Osman, "Comparison of two clustering techniques of myocardium using C-SENC Images," *Journal of Al Azhar University Engineering Sector*, vol. 2, no. 4, pp. 783-787, July 2007.
39. Refaat E. Gabr, Pelin Aksit, Paul A. Bottomley, Abou-Bakr M. Youssef, and **Yasser M. Kadah**, "Deconvolution-Interpolation Gridding (DING): Accurate Reconstruction for Arbitrary  $k$ -Space Trajectories," *Magnetic Resonance in Medicine*, vol. 56, no. 6, pp. 1182-91, December 2006.
40. Mai S. Mabrouk, Nahed H. Solouma, and **Yasser M. Kadah**, "Survey of Retinal Image Segmentation and Registration," *ICGST International Journal on Graphics, Vision and Image Processing*, vol. 6, no. 2, pp.1-11, September 2006.
41. **Yasser M. Kadah**, Ahmed Fahmy, Refaat Gabr, Keith Heberlein, and Xiaoping Hu, "Progressive magnetic resonance image reconstruction based on iterative solution of a sparse linear system," *International Journal of Biomedical Imaging*, vol. 2006, pp. 1-9, 2006.
42. Dmitriy M. Niyazov, Andrew J. Butler, **Yasser M. Kadah**, Charles M. Epstein, and Xiaoping P. Hu, "Comparison of motor maps obtained with functional magnetic resonance imaging and transcranial magnetic stimulation: Effects of motor imagery, movement, and coil orientation," *Clinical Neurophysiology*, vol. 116, no. 7, pp. 1601-10, Jul. 2005.
43. **Yasser M. Kadah**, AbdEl-Monem El-Sharkawy, and Abou-Bakr M. Youssef, "Navigator echo motion artifact suppression in synthetic aperture ultrasound imaging," *IEEE Trans. on Biomedical Engineering*, vol. 52, no. 1, pp. 127-131, Jan. 2005.
44. **Yasser M. Kadah**, "Adaptive denoising of event-related functional magnetic resonance imaging data using spectrum subtraction," *IEEE Trans. on Biomedical Engineering*, vol. 51, no. 11, pp. 1944-53, Nov. 2004.
45. N. Shabrawy, A.S. Mohamed, A.M. Youssef and **Y. M. Kadah**, "Study of the origin of contrast in functional magnetic resonance imaging using Monte Carlo methods," *Journal of Engineering and Applied Science*, vol. 51, no. 1, pp. 139-156, Feb. 2004.
46. **Yasser M. Kadah**, Ayman Abaza, Ahmed Fahmy, Abou-Bakr M. Youssef, Keith Heberlein, and Xiaoping Hu, "Floating navigator echo (FNAV) for in-plane 2D translational motion estimation," *Magnetic Resonance in Medicine*, vol. 51, pp. 403-407, Feb. 2004.
47. Xiangyang Ma, **Yasser M. Kadah**, Stephen M. LaConte, and Xiaoping Hu, "Enhancement of measured diffusion anisotropy in Gray matter by eliminating CSF contamination with FLAIR," *Magnetic Resonance in Medicine*, vol. 51, pp. 423-427, Feb. 2004.
48. Yasser S. Fawzi, Abo-Bakr M. Youssef, Mohamed H. El-Batanony, and **Yasser M. Kadah**, "Determination of the optical properties of a two-layer tissue model by detecting photons migrating at progressively increasing depths," *Applied Optics*, vol. 42, no. 31, pp. 6398-6411, Nov. 2003.
49. Khaled Z. Abdel-Monem, Abou-Bakr M. Youssef and **Yasser M. Kadah**, "Real-time speckle reduction and coherence enhancement in ultrasound imaging via nonlinear anisotropic diffusion," *IEEE Trans. on Biomedical Engineering*, vol. 49, no. 9, pp. 997-1014, Sept. 2002.
50. Nahed H. Solouma, Abou-Bakr M. Youssef, Yehia A. Badr, and **Yasser M. Kadah**, "A new real-time retinal tracking system for image-guided laser treatment," *IEEE Trans. on Biomedical Engineering*, vol. 49, no. 9, pp. 1059-1067, Sept. 2002.

51. Mohamed I. Owis, Ahmed Hammad, Abou-Bakr M. Youssef, and **Yasser M. Kadah**, "Study of features based on nonlinear dynamical modeling in ECG arrhythmia detection and classification," *IEEE Trans. on Biomedical Engineering*, vol. 49, no. 7, pp. 733-736, July 2002.
52. Mohamed I. Owis, Abou-Bakr M. Youssef, and **Yasser M. Kadah**, "Characterization of ECG signals based on blind source separation," *Med. Biol. Eng. Comput.*, vol. 40, 2002.
53. **Yasser M. Kadah** and Xiaoping Hu, "Algebraic reconstruction for magnetic resonance imaging under B0 inhomogeneity," *IEEE Trans. Med. Imag.*, vol. 17, no.3, pp. 362-70, 1998.
54. **Yasser M. Kadah** and Xiaoping Hu, "Simulated phase evolution rewinding (SPHERE): a technique for reducing B0 inhomogeneity distortion in MRI," *Magnetic Resonance in Medicine*, vol. 38, pp. 615-627, 1997.
55. **Yasser M. Kadah** and Xiaoping Hu, "Pseudo-Fourier imaging: A technique for spatial encoding in MRI," *IEEE Trans. Medical Imaging*, vol. 16, no. 6, pp.893-902, Dec. 1997.
56. **Yasser M. Kadah** and Ahmed H. Tewfik, "Efficient design of ultrasound true-velocity flow mapping," *IEEE Engineering in Medicine and Biology Magazine*, vol. 15, no. 5, pp. 118-125, Sept. 1996.
57. **Yasser M. Kadah**, Jacek M. Zurada, Ahmed M. Badawi, and Abou-Bakr M. Youssef, "Classification algorithms for quantitative tissue characterization of diffuse liver disease from ultrasound images," *IEEE Trans. Medical Imaging*, vol. 15, no. 4, pp. 466-478, August 1996.

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## PEER-REVIEWED CONFERENCE PUBLICATIONS

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58. Ahmed F. Elnokrashy and **Yasser M. Kadah**, "4D Ultrasound Adaptive Image Pre-processing," *Proc. National Radio Science Conference (NRSC 2018)*, Cairo, pp. 214-222, 2018.
59. Mukhtar Alansari, Mahmoud Kamel, Bandar Hakim, and **Yasser Kadah**, "Study of Wavelet-Based Performance Enhancement for Motor Imagery Brain-Computer Interface," *Proc. 2018 6th International Conference on Brain-Computer Interface (BCI) Conference*, GangWon, South Korea, pp. 1-4, Jan. 2018.

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60. Hisham A. Alsayem, **Yasser M. Kadah**, "Image Restoration Techniques in Super-Resolution Reconstruction of MRI images," Accepted for publication in *Proc. 34<sup>th</sup> National Radio Science Conference*, Aswan, Egypt, 2016.
61. M. A. Al-antari, M. A. Al-masni, S. U. Park, J. H. Park, **Y. M. Kadah**, S. M. Han, and T.-S. Kim, "Automatic Computer-Aided Diagnosis of Breast Cancer in Digital Mammograms via Deep Belief

Network," Proc. Global Conference on Engineering and Applied Science (GCEAS), Hokkaido, Japan, pp. 1306-1314, 2016.

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#### 2015

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62. Khaled S. Sayed, Aya F. Khalaf, and **Yasser M. Kadah**, "Arrhythmia detection based on novel distance series transform of phase space trajectories," *Proc. IEEE Eng Med Biol Conf*, Milano, 2015
63. Mohamed Eltahir Elmanana and **Yasser M. Kadah**, "Implementation of Practical Computer Aided Diagnosis System for Classification of Masses in Digital Mammograms," *Proc. ICCNEEE 2015*, Khartoum, 2015.

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#### 2014

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64. Eman A. Hassan, **Yasser M. Kadah**, "Study of compressed sensing application to low dose computed tomography data collection," *Proc. 4th International Conference on Image Processing Theory, Tools and Applications (IPTA)*, Paris, pp. 1-5, 2014.
65. Meena M. Makary and **Yasser M. Kadah**, "Spectral Subtraction Denoising Improves Accuracy of Slow Cortical Potential Based Brain-Computer Interfacing," *Proc. Cairo International Biomedical Engineering Conference (CIBEC 2014)*, Cairo, December 2014.
66. Abeer E. Selim, Manal Abdel Wahed, and **Yasser M. Kadah**, "Electrode Reduction Using ICA and PCA in P300 Visual Speller Brain-Computer Interface System," *Proc. 2nd Middle-East Conference of Biomedical Engineering (MECBME 2014)*, Doha, pp. 357-360, February 2014.
67. Meena M. Makary and **Yasser M. Kadah**, "Improving P300 and SCP-Based Brain Computer Interfacing by Spectral Subtraction Denoising," *Proc. 2nd Middle-East Conference of Biomedical Engineering (MECBME 2014)*, Doha, pp. 228-231, February 2014.

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#### 2013

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68. Marwan H. Hussein, **Yasser M. Kadah**, "Motion Estimation for Ultrasound Elastography Using Optimized Block Matching with Lateral Continuity Correction," *Proc. 30th National Radio Science Conference*, Cairo, pp. 503-509, 2013.
69. Mohamed S. ElBially, Mohamed S. Ahmed, Mohamed H. AbdelGawwad, Fatma A. Ali, Fady S. Botros, **Yasser M. Kadah**, "Hand-Held Computer Aided Diagnosis System with Application in Mammography," *Proc. 30th National Radio Science Conference*, Cairo, pp. 549-556, 2013.
70. M.H. Hussein and **Y.M. Kadah**, "Ultrasound elastography as a motion estimation problem," *Proc. Int. Conf. Computer Medical Applications (ICCMA)*, Tunisia, pp. 503-509, 2013.
71. S. Zobly and **Y.M. Kadah**, "Multiple measurements vectors compressed sensing for Doppler ultrasound signal reconstruction," *Proc. 2013 Int. Conf. Computing, Electrical and Electronics Engineering (ICCEEE)*, Sudan, pp. 319-322, 2013.

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72. Amer, Y.A. ; El-Tager, M.A. ; El-Alamy, E.A. ; Abdel-Salam, A. ; **Kadah, Y.M.**, "Embedded Magnetic Resonance Image Reconstruction Using Compressed Sensing," *Proc. 2012 Cairo Int. Biomed. Eng. Conf. (CIBEC 2012)*, Cairo, pp. 35-38, 2012.
73. Saleh, S. ; Abdellah, M. ; Raouf, A.A.A. ; **Kadah, Y.M.**, "High performance CUDA-based implementation for the 2D version of the Maximum Subarray Problem (MSP)," *Proc. 2012 Cairo Int. Biomed. Eng. Conf. (CIBEC 2012)*, Cairo, pp. 60-63, 2012.
74. Elnokrashy, A.F. ; Hassan, M. ; Hosny, T. ; Ali, A. ; Megawer, A. ; **Kadah, Y.M.**, "Multipass GPU surface rendering in 4D ultrasound," *Proc. 2012 Cairo Int. Biomed. Eng. Conf. (CIBEC 2012)*, Cairo, pp. 39-43, 2012.
75. Zobly, S.M.S. ; **Kadah, Y.M.** , "A new clutter rejection technique for Doppler ultrasound signal based on principal and independent component analyses," *Proc. 2012 Cairo Int. Biomed. Eng. Conf. (CIBEC 2012)*, Cairo, pp. 56-59, 2012.
76. Zobly, S.M.S. ; **Kadah, Y.M.**, "Orthogonal matching pursuit & compressive sampling matching pursuit for Doppler ultrasound signal reconstruction," *Proc. 2012 Cairo Int. Biomed. Eng. Conf. (CIBEC 2012)*, Cairo, pp. 52-55, 2012.
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80. Zeinab Mustafa, Banazier Abraham and **Yasser Kadah**, "Modified hybrid median filter for image denoising," *Proc. 29<sup>th</sup> National Radio Science Conference*, Cairo, pp. 705-712, 2012.
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82. Sulieman M. S. Zobly and **Yasser M. Kadah**, "Compressed Sensing: Doppler Ultrasound Signal Recovery by Using Random Sampling and Non-uniform Sampling," *Proc. 28<sup>th</sup> National Radio Science Conference*, 2011.
83. Khaled Sayed, Nahed Solouma, **Yasser Kadah**, "Increasing the Reliability of Protein-Protein Interactions and Protein Function Prediction Based on the Experimental Identification Methods," *Proc. 28<sup>th</sup> National Radio Science Conference*, 2011.
84. Ashraf Mahroos and **Yasser M. Kadah**, "Brain Causality Investigation Based on FMRI Images Time Series Using Dynamic Causal Modelling Augmented by Granger Causality," *Proc. 28<sup>th</sup> National Radio Science Conference*, 2011.
85. Fayroz Farouk, Mahmoud Elhefnawy and **Yasser M. Kadah**, "Genomic signatures and associative classification of the Hemagglutinin protein for Human versus Avian versus Swine Influenza A viruses," *Proc. 28<sup>th</sup> National Radio Science Conference*, 2011.

86. Banazier A. Ibrahim, Zeinab A. Mustafa, **Yasser M. Kadah**, "Modified Non-local Means Filter for Effective Speckle Reduction in Ultrasound Images," *Proc. 28<sup>th</sup> National Radio Science Conference*, April 2011.
87. Vidan Fathi Ghoneim, Nahed H. Solouma, **Yasser M. Kadah**, "Evaluation of Missing Values Imputation in cDNA Microarrays Based on Downstream Data Analysis," *Proc. 28<sup>th</sup> National Radio Science Conference*, April 2011.
88. Mawia A. Hassan, Abou-Bakr M. Youssef, **Yasser M. Kadah**, "Embedded Digital Signal Processing for Digital Ultrasound Imaging," *Proc. 28<sup>th</sup> National Radio Science Conference*, Cairo, Egypt, April 2011.
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