

## 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  
**Phone:** +966541944717  
**Email:** [ymk@k-space.org](mailto:ymk@k-space.org), [ykadah@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>  
**YouTube Channel:** <http://www.youtube.com/channel/UCCjd1mv3I0JdRSWALyYYcjA>

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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, 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: January 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: September 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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## 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 Programme (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 #2

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**Project Title:** Design and development of a high-end beamformer for ultrasound imaging applications  
**Value of Contract:** EGP 850,000.00  
**Principal Investigator:** 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 Programme (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 (In Progress)  
**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 (In Progress)  
**Awarding Authority:** STDF (Capacity Building Grant Program)

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# TEACHING ACTIVITY

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- Medical Equipment I/II/III/IV (BME junior and senior levels), 2007-now.
- 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)

**(Total Number of Supervised Project Students: 216 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 CEO of Inovia 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 assistant professor at Cairo University
7. Mai Mabrook (Ph.D., 2008): Now an assistant professor at Misr University for Science and Technology.
8. Rania Aboulseoud (Ph.D., 2008): Now an assistant professor at Fayoum University.
9. Mohamed Alolfe (Ph.D., 2009): Now an assistant professor in Yemen.
10. Fadhl Alakwaa (Ph.D., 2009): Now an assistant professor in Yemen.
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 Modern University.
14. Vidan Ghoneim (Ph.D., 2011): Now an assistant professor at Misr University for Science and Technology.
15. Tamer Nassef Ph.D., 2012): Now an assistant professor at Misr University for Science and Technology.
16. Mawia Hassan (Ph.D., 2011): Now an assistant professor in Sudan.
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 CHI and MUST

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#### MASTER 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 assistant 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 CEI of Philips Medical Systems, Egypt.
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 assistant professor at Helwan University.



20. Mai Mabrook (M.Sc. 2004): Now an assistant 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 a PhD student at Cairo University.
23. Mohamed Al-Olfe (M.Sc. 2006): Now a Biomedical Engineer 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 assistant professor at Cairo University.
26. Ahmed Ehab (M.Sc. 2006): Now an assistant 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 an assistant professor in Sudan.
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 Axxelera.
60. Yassin Amer (M.Sc., 2013): Now a Lecturer Assistant at Cairo University.



61. Marwan Hussein (M.Sc., 2013): Now a PhD student at the Johns Hopkins University.
62. Meena Makary (M.Sc., 2013): Now a PhD student at Kyung Hee 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

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## INTERNATIONAL CONFERENCE PRESENTATIONS

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- 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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## HONORS AND PROFESSIONAL AFFILIATIONS

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- Associate Editor, Biomedical Engineering Online (Biomed Central) (Since May 2011).
- Associate Editor, Journal of Engineering and Applied Science (Cairo University Press) (Since January 2011)
- Associate Editor, Journal of Medical Imaging and Health Informatics (American Scientific Publishers) (since August 2010).
- Lead Guest Editor, International Journal of Biomedical Imaging Special Issue on Parallel Processing in Medical Imaging Applications, to appear in October 2011.
- 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.
- Elected Senior Member, Institute of Electrical and Electronic Engineers (IEEE), 2003.
- Awarded a Research Achievement Award from Cairo University, 2003.
- Awarded the E.K. Zaviosky 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

(reviewed more than 80 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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- 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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3. 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.
4. 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.
5. 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.
6. 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.
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8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.

15. 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.
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21. 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.
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- Arbitrary  $k$ -Space Trajectories," *Magnetic Resonance in Medicine*, vol. 56, no. 6, pp. 1182-91, December 2006.
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  40. 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.
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49. Meena M. Makary and **Yasser M. Kadah**, "Spectral Subtraction Denoising Improves Accuracy of Slow Cortical Potential Based Brain-Computer Interfacing," To Appear in *Proc. Cairo International Biomedical Engineering Conference (CIBEC 2015)*, Cairo, December 2014.
50. 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.
51. Meena M. Makary and **Yasser M. Kadah**, "Improving P300 and SCP-Based Brain Computer Interfacing by Spectral Subtraction Denoising," To Appear in *Proc. 2nd Middle-East Conference of Biomedical Engineering (MECBME 2014)*, Doha, pp. 228-231, February 2014.

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52. 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.

53. 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. 30<sup>th</sup> National Radio Science Conference*, Cairo, pp. 549-556, 2013.
54. M.H. Hussein and **Y.M. Kadah**, "Ultrasound elastography as a motion estimation problem," *Proc. Int. Conf. Computer Medical Applications (ICCM)*, Tunisia, pp. 503-509, 2013.
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58. 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.
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60. 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.
61. Ahmed Abdel Salam, Fadwa Fawzy, Norhan Shaker, and **Yasser M. Kadah**, "High performance compressed sensing MRI image reconstruction," *Proc. 29<sup>th</sup> National Radio Science Conference*, Cairo, pp. 627-631, 2012.
62. Nagwan Abdel Samee, Nahed H. Solouma, Nahed and **Yasser M. Kadah**, "Gene network construction and pathways analysis for high throughput microarrays," *Proc. 29<sup>th</sup> National Radio Science Conference*, Cairo, pp. 699-704, 2012.
63. Mostafa El-Tager, Ehab El-Alamy, Amir Mahdy, Islam Yousef, Medhad Nour El-Dien, and **Yasser M. Kadah**, "Embedded real time ultrasound system," *Proc. 29<sup>th</sup> National Radio Science Conference*, Cairo, pp. 705-712, 2012.
64. 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.
65. Mawia A. Hassan and **Yasser M. Kadah**, "Synthetic transmit aperture medical ultrasound imaging," *Proc. 29<sup>th</sup> National Radio Science Conference*, Cairo, pp. 641-648, 2012.

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