

ATEF Z. ELSHERBENI
IEEE Life Fellow - ACES Fellow
IEEE APS Distinguished Lecturer (2020-2023)

General Information:

Nationality: American Citizen
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ARC Lab: <https://arc.elsherbeni.com/>

**College Level Education:**

- B.Sc., with Honor, Electronics and Communications, Cairo University, Faculty of Engineering, Cairo, Egypt, July 1976
- B.Sc., with Honor, Applied Physics, Cairo University, Faculty of Science, Cairo, Egypt, May 1979
- M. Eng., Engineering Physics, Cairo University, Faculty of Engineering, Cairo, Egypt, October 1982
- Ph.D., Electrical Engineering, University of Manitoba, Faculty of Engineering, Winnipeg, Manitoba, Canada, February 1987

Academic Experience:

- **Professor**, Colorado School of Mines, August 2013 - present.
- **Distinguished Lecturer**, IEEE Antennas and Propagation Society (APS), 2020-2023
- **Dobelman Distinguished Chair Professor of Electrical Engineering**, Colorado School of Mines, August 2013- August 2021
- **Professor and Department Head of Electrical Engineering Department**, Colorado School of Mines, July 2016- August 2018.
- **Professor and Interim Department Head of Electrical Engineering and Computer Science Department**, Colorado School of Mines, August 2015- June 2016
- **Associate Dean of Engineering for Research and Graduate Programs**, School of Engineering, University of Mississippi, July 2009 – August 2013
- **Professor**, Department of Electrical Engineering, University of Mississippi, August 1997 – July 2013
- **Director**, Center for Applied Electromagnetic Systems Research (CAESR), University of Mississippi, August 2011 – July 2013
- **Director**, the School of Engineering CAD Lab, University of Mississippi, August 2002 - 2013
- **Finland Distinguished Professor**, Tampere University of Technology, the Academy of Finland, May 2009- March 2012
- **Adjunct Professor**, The Department of Electrical Engineering and Computer Science of the L.C. Smith College of Engineering and Computer Science at Syracuse University, January 2004- 2013
- **Visiting Professor**, Department of Electrical Engineering, Magdeburg University, Magdeburg, Germany, May 2005
- **Visiting Associate Professor**, Department of Electrical Engineering, University of California, Los Angeles (UCLA), January 1996 - August 1996

- **Associate Professor**, Department of Electrical Engineering, University of Mississippi, June 1991 - May 1997
- **Assistant Professor**, Department of Electrical Engineering, University of Mississippi, August 1987 - May 1991
- **Post-Doctoral Fellow**, Electrical Engineering Department, University of Manitoba, Canada, January 1987 - August 1987

Professional Non-Academic Experience:

- Software and System Design Engineer, Part Time (PT), Automated Data System Center, Cairo, Egypt, March 1980 - December 1982
- Communication System Engineer (PT), United Group Company, Cairo, Egypt, May 1977 - March 1980

Thesis and Dissertation:

- “Critical Survey of the Analysis of Corner Reflector Antennas,” Master's Thesis, Department of Engineering Mathematics and Physics, **Cairo University**, Cairo, Egypt, October, 1982.
- “Diffraction by Two Conducting Wedges,” Ph.D. Dissertation, Electrical Engineering Department, **University of Manitoba**, Winnipeg, Manitoba, Canada, February 1987.

Areas of Professional Interest:

- Numerical Techniques for Electromagnetics Applications,
- Acceleration of Numerical Techniques using Graphical Processing Units (GPUs),
- RFID Systems and Tag Designs for Medical, Sensors, and Localization Applications,
- Printed Microstrip and Aperture Antennas for Radars, UAVs, and Personal Wireless Applications,
- Reflectarray (RA), Transmitarray (TA), and Reconfigurable Intelligent Surfaces (RIS),
- Scattering, Diffraction and Propagation of Electromagnetic Waves,
- Educational Multimedia and Software Development including Computer Animation and Visualization of Electromagnetic Waves,
- Human Body Tissue Characterization and Simulations with Integrated Antennas,
- Software development for Electromagnetics and Antenna Educations.

IEEE Fellow Citation:

For contributions to computational electromagnetics, antenna and microwave applications, and engineering education.

Teaching/Research Awards:

- IEEE Antennas and Propagation Society, 2023 Harrington-Mitra Computational Electromagnetics **Award for contributions to computational electromagnetics with hardware acceleration techniques**
- IEEE Antennas and Propagation Society Distinguished Lecturer (2020-2023)
- The 2013 Applied Computational Electromagnetic Society (ACES) Technical Achievement Award
- The 2012 University of Mississippi Distinguished Research and Creative Achievement Award
- The 2011 School of Engineering Senior Research Award, Outstanding Performance in Research
- The 2006 School of Engineering Senior Research Award, Outstanding Performance in Research
- The 2005 School of Engineering Faculty Service Award, Outstanding Performance in Service
- The 2003 Mississippi Academy of Science, Outstanding Contributions to Science Award
- The 2002 IEEE, Region 3, Joseph Biedenback Outstanding Engineering Educator Award

- The 2002 School of Engineering, Outstanding Engineering Faculty of the Year Award
- The 2001 Department of Electrical Engineering, Researcher/Scholar of the Year Award
- The 1996 IEEE Memphis Section, Outstanding Engineering Educator Award

Service Awards:

- The 2019 Applied Computational Electromagnetic Society (ACES) Outstanding Service Award for contributions to the ACES Journal and conferences.
- The 2014 Applied Computational Electromagnetic Society (ACES) Outstanding Service Award as 2013 ACES Symposium Chair
- The 2004 Applied Computational Electromagnetic Society (ACES) Valued Service Award for Outstanding Service as 2003 ACES Symposium Chair
- The 2003 Applied Computational Electromagnetic Society (ACES) Exemplary Service Award for Leadership and Contributions as Electronic Publishing Managing Editor and as a Journal Editor-in-Chief
- The 2001 Applied Computational Electromagnetic Society (ACES) Exemplary Service Award for Leadership and Contributions as Electronic Publishing Managing Editor 1999-2001

Joint Awards with Graduate Students:

- Madison Le, First place in Modeling and Simulation category, Mines GRADS Competition, "Sub-gridding errors in Standard and Hybrid Higher Order FDTD Simulations", 2020.
- Rachel Lumnitzer and Allison Tanner, Second place in Engineering Category, Mines GRADS Competition, "One Dimensional FDTD in Dispersive Media for Biomedical Imaging Applications", 2020.
- Madison Le, third position of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Miami, FL, April 2019.
- Robert Jones, and Joseph Denier, third position of IEEE APS Student Design Contest, "CubeSat Antenna Design", presented at the 2017 IEEE APS-URSI Symposium, San Diego, CA, July 2017.
- First position of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Monterey, CA, March 2013
- Third position of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Monterey, CA, March 2013
- Third position of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Monterey, CA, March 2009
- First position of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Verona, Italy, March 2007
- First place of best student presentation, Sigma Xi, Engineering IV, The University of Mississippi, Oxford, MS, March 2007
- Second place award for student paper presented at the International Center for Radio Science Conference, India, December 2006
- First place of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Miami, Florida, March. 2006
- First place of best paper, Engineering and Physics Division in Mississippi Academy of Science (MAS), 2004
- First place of best Student Paper Award presented at the Applied Computational Electromagnetics Society (ACES) Symposium, Hawaii, March. 2004

Major Academic Achievements:

Funded Research Grants with a total amount of over **\$13 million**, **70** graduate students advised (**45** MS and **25** PhD), **16** books, **35** book chapters, **229** journal publications, **112** invited seminars/presentations, **308** proceedings publications, **213** conference abstracts and presentations, **43** short courses offered, **17** developed software packages, **75** technical reports.

Graduate Advisees at Mines (4 Ph.D and 12 M.Sc):

Yiming Chen **Ph.D** 2024, Collin T. Kringlen **M.Sc.** 2024, Rachel S. Lumnitzer **M.Sc.** 2023, Joshua Kast **Ph.D.** 2022, Alec Weiss **Ph.D.** 2022, Zahid Hasan **M.Sc.** 2022, Andres Velasco **M.Sc.** 2021, Robert Jones **M.Sc.** 2021, Antonio P. Thomson **M.Sc.** 2020, Abdulla Algarni **Ph.D.** 2020, Yuhao Feng **M.Sc.** 2020, Madison Le **M.Sc.** 2020, Alec Weiss **M.Sc.** 2018, Joshua Kast **M.Sc.** 2018, Joseph Diener **M.Sc.** August 2017, Kyle Patel **M.Sc.** May 2017.

Graduate Advisees at OleMiss (21 Ph.D and 33 M.Sc):

Walker Hunsiker **Ph.D.** 2014, Ahmed Hassan **Ph.D.** 2014, Yilin Mao **Ph.D** 2014, Fatih Kaburcuk **Ph.D.** 2014, Qian Qiao **Ph.D.** February 2014, Ahmed Khidre **Ph.D** Jan 2014, Matthew Inman, **Ph.D.** July 2013, Payam Nayeri **Ph.D.** June 2012, Gokhan Aydin **Ph.D.** December 2010, Khaled ElMahgoub **Ph.D.** December 2010, Bassem H. Henin **Ph.D.** November 2009, Chye H. Loo **Ph.D.** December 2008, Roger D. Hasse **M.Sc.** December 2008, Tejaswi Makineni **M.Sc.** August 2007, Wei-Chung Weng **Ph.D.** June 2007, Mesut Gökten **Ph.D.** December 2007, Walker Hunsicker **M.Sc.** December 2007, Mohamed H. Al Sharkawy **Ph.D.** 2006, Aik Min Choong **M.Sc.** 2006, Lukman Kuzou **Ph.D.** 2006, Santosh Parakkal **M.Sc.** 2004, Abdelnasser Eldek **Ph.D.** 2004, Samatha Parupalli **M.Sc.** 2004, Sahithi Ginne **M.Sc.** 2004, Veysel Demir **Ph.D.** 2004, Matthew J. Inman **M.Sc.** 2003, Mohamed Al Sharkawy **M.Sc.** 2003, Terry Gerald **M.Eng.** 2003, Ashwini Anand Almad **M.Sc** 2002, Cuthbert Martindale Allen **M.Sc** 2002, Po-Loong Chin **M.Sc.** July 2002, Guiping Zheng **M.Sc.** July 2002, Bradford N. Baker **M.Sc.** 2001, Xuexun Hu **M.Sc.** 2001, Chun-Wen Paul Huang **Ph.D.**, 1999, Vicente Rodriguez-Pereyra **Ph.D.** 1999, Nithya L. Iyer **M.Sc.** 1998, Adel M. Abdin, **Ph.D.** 1998, Jianbing (James) Chen **M.Sc.** 1997, Asem Mokaddem **M.Sc.** 1997, Liang Xu **M.Sc.** July 1996, Clayborne D. Taylor, Jr. **M.Sc.** 1996, Chun-Wen Paul Huang **M.Sc.** 1996, Vicente Rodriguez-Pereyra **M.Sc.** 1996, Shixiong Dai **M.Sc.** 1995, Omar D. Khan **M.Sc.** 1995, Y. Ying **M.Sc.** 1994, Bassam Moumneh **M.Sc.** 1993, G. Tian **M.Sc.** 1991, S. Zeng **M.Sc.** 1991, Shi-Dong He **M.Sc.** 1991, L. Jin **M.Sc.** 1990, Rajan P. Parrikar **M.Sc.** 1990, M. A. Kolbehdari **M.Sc.** 1988.

Scholarship Contributions:

Although I had several years of administrative responsibilities, I managed to keep my research productivity active. As a result, my Google Scholar index is consistently improving and the number of citations to my research publications as of December 2024 is 13770 with an h-index of 57.

[Atef Z. Elsherbeni - Google Scholar](https://scholar.google.com/citations?user=AtefZ.Elsherbeni)



Atef Z. Elsherbeni

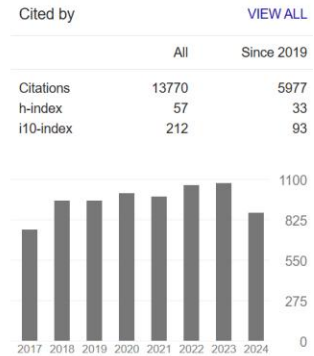
Professor, EE Department, [Colorado School of Mines](#)
 Verified email at mines.edu - [Homepage](#)

[Antennas](#) [Electromagnetics](#) [Microwaves](#) [RFID - Numerical Techniques](#) [Educational Software](#)

 FOLLOW

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TITLE	CITED BY	YEAR
The Finite-Difference Time-Domain in Electromagnetics AZ Elsherbeni, V Demir SciTech Publishing Inc	665	2015
MATLAB simulations for radar systems design BR Mahafza, A Elsherbeni Chapman and Hall/CRC	632	2003
Reflectarray antennas: theory, designs, and applications P Nayeri, F Yang, AZ Elsherbeni John Wiley & Sons	586	2018
Transmission phase limit of multilayer frequency-selective surfaces for transmitarray designs	359	2013



I will continue my efforts to secure research funds through proposal collaborations and communications with surrounding industry. I am in close contact with NIST from which I have funding for MS and PhD students and ARDC which is funding 4 undergraduate researchers. I am also continuing my research collaboration with one professor at CU Boulder, one professor at Northern Illinois University, one professor at McMaster University, and one professor at KAUST.

In late 2014 I started an electromagnetic group in the state of Colorado (Co-EM). The group consists of professors from Colorado Universities and electromagnetics and antenna specialists from Colorado companies and government institutions. The first meeting of the group took place at Colorado school of Mines, the following meetings took place at Colorado State University in Fort Collins, University of Colorado in Boulder, NIST, University of Colorado in Denver, and University of Colorado in Colorado Springs. I am leading this effort to bring recognition to Mines and to the efforts and research productivity of the antennas and wireless communication group (AWC) that I have established at Mines EE department. Among the participants of this CO-EM group, aside from university professors, are experts and professionals from Lockheed Martins, NIST, Frist RF, LGS, Ball Aerospace, Keysight, and Altair.

Service to Professional Scientific Organizations:

- **Invited Seminars**, IEEE Antennas and Propagation Society Distinguished Lecturer program (2020-2023)
- **Conference Technical Program Chair**, Applied Computational Electromagnetics Society (ACES), Miami, 2019
- **Conference Technical Program Co-Chair**, Applied Computational Electromagnetics Society (ACES), Denver, 2018
- **Conference Technical Program Co-Chair**, Applied Computational Electromagnetics Society (ACES), Italy, 2017
- **Conference General Co-Chair**, Applied Computational Electromagnetics Society (ACES), China, 2017
- **Conference General Co-Chair**, Applied Computational Electromagnetics Society (ACES), Hawaii, 2016
- **President**, Applied Computational Electromagnetic Society (ACES), 2013-2015
- **General Chair**, The 2014 Int. Symp. on IEEE Antennas and Propagation and USNC/URSI Radio Science Meeting, Memphis, TN, July 2014
- **Vice President**, Applied Computational Electromagnetic Society (ACES), 2011-2013

- **Electronic Publishing Managing Editor**, Applied Computational Electromagnetics Society (ACES), 1999-Present
- **Editor-in-Chief**, Applied Computational Electromagnetics Society (ACES) Journal, 2002- Present
- **Electronic Publishing Managing Editor**, Applied Computational Electromagnetics Society (ACES), 1999- Present. Setting up and maintaining the Society server and the data base system
- **Editorial Board**, Journal of Electromagnetic Waves and Applications, 1996-present
- **Conference Co-Chair**, the Applied Computational Electromagnetics Society (ACES), Monterey, CA, 2013
- **Conference Technical Program Co-Chair**, Applied Computational Electromagnetics Society (ACES), Columbus, Ohio, 2012
- **Board of Director**, Applied Computational Electromagnetic Society (ACES) electronic publication activities, 2008-2011
- **Conference Technical Program Chair**, Applied Computational Electromagnetics Society (ACES), Williamsburg, VA, 2011
- **Co-organizer of a special session** for the 2011 Int. Symp. on IEEE Antennas and Propagation and USNC/URSI National Radio Science Meeting, "Reflectarray and Transmitarray Antennas: Theory, Designs, and Applications," Spokane, Washington, July 3–8, 2011. (with Dr. Fan Yang)
- **Conference Technical Program Chair**, Applied Computational Electromagnetics Society (ACES), Finland, 2010.
- **Associate Editor**, Radio Science Journal, 2003-2009
- **Co-organizer of a special session** for the 2009 Int. Symp. on IEEE Antennas and Propagation and USNC/URSI National Radio Science Meeting, "Hardware Accelerated Computational Techniques for Electromagnetics Applications," Charleston, SC June 1-5, 2009
- **Conference Technical Program Chair**, Applied Computational Electromagnetics Society (ACES), 2008
- **Conference Technical Program Chair**, Applied Computational Electromagnetics Society (ACES), 2007
- **Conference Technical Program Co-Chair**, MidSouth Area Engineering and Science Conference (MAESC), 2007
- **Conference Technical Program Chair**, Applied Computational Electromagnetics Society (ACES), 2006
- **Conference Co-Chair**, the Applied Computational Electromagnetics Society (ACES), 2005
- **Conference Co-Chair**, the Applied Computational Electromagnetics Society (ACES) 2004
- **Conference Chair**, the Applied Computational Electromagnetics Society (ACES) 2003
- **Chairman**, the IEEE Region 3 Educational Activity Committee, Jan. 2000- Dec. 2001
- **Vice Chairman**, the IEEE Region 3 Educational Activity Committee, Jan. 1998 - Dec. 1999
- **Chairman**, the Software Exchange Committee of the (ACES), March 1996 - 1999

Membership in Scientific and Professional Organizations:

- **Board of Director Member**, Applied Computational Electromagnetic Society (ACES), 2020-2026
- **President** of the Applied Computational Electromagnetic Society (ACES), 2013-2015
- **Fellow Member**, Applied Computational Electromagnetics Society (ACES), 2008-Present
- **Fellow Member**, Institute of Electrical and Electronic Engineers (IEEE), 2007-Present
- **Fellow Member**, The Electromagnetics Academy, The Institute for Theory and Computation
- **Member**, the International Union of Radio Science (URSI) Commission B, 1998-Present
- **Senior Member**, Institute of Electrical and Electronic Engineers (IEEE), 1991-2006
- **Member**, the IEEE Educational Activities Board, Jan. 2000-Dec. 2001

- **Member**, the Applied Computational Electromagnetic Society (ACES), 1995-Present
- **Member**, the Institute of Electrical and Electronic Engineers (IEEE), 1986-1991
- **Member**, the editorial board of the Book Series on Progress in Electromagnetic Research
- **Past Member**, the editorial board of the Computer Applications in Engineering Education Journal
- **Past Member**, the editorial board of the IEEE Microwave Theory and Techniques Journal

Special Honors, Scholarships and Fellowships:

- Listed in Who's Who in America (in the South and Southwest).
- Listed in Strathmore's Who's Who for leadership and Achievement
- Listed in Who's Who in Electromagnetics
- Listed in Who's Who in Science and Engineering
- University of Manitoba Post Doctoral Fellowship, January - August 1987
- University of Manitoba Graduate Fellowship, May 1984 - December 1986
- Distinction Award, Faculty of Science, Cairo University, September 1977-May 1979
- Distinction Award, Faculty of Engineering, Cairo University, September 1971-July 1976

Technical Reviewer:

- Institute of Electrical and Electronic Engineers (IEEE)
 - Transactions on Antennas and Propagation
 - Antennas and Propagation Magazine
 - Transactions on Microwave Theory and Techniques
 - Transactions on Electromagnetic Compatibility
 - Transactions on Education
 - Transactions on Circuits and Systems
 - Transactions on Magnetics
- Radio Science Journal
- Institute of Electrical Engineers - Proceedings-H, Microwave, Antennas, and Propagation
- Journal of Electromagnetic Waves and Applications
- Journal of Computer Physics Communications
- Center on Computer Applications in Electromagnetics Education (CAEME)
- Natural Sciences and Engineering Research Council of Canada (NSERC)
- IEEE-Southeastcon '92 conference
- IEE Electronics Letters
- Idaho Board of Education
- City University of Hong Kong
- Journal of the Franklin Institute
- The Applied Computational Electromagnetic Society (ACES), 2001-2012
- Louisiana Space Consortium Program Developing Aerospace Research and Technology (DART)
- National Science Foundation, Panel Review, 2006,2008,2009,2010
- IEEE CEFC conference, 2006,2010
- IEEE APS-URSI conference, 2005,2006,2007,2008,2009,2010,2011,2012
- IEEE IMS conference, 2006,2007,2008,2009,2010,2011,2012

University Committees: (* means chairman of the committee)

- Graduate Council: 2022-Present
- Budget Committee: 2016-2018

- Grievance Committee: 2016-2018
- Sabbatical Review Committee: 2011-2012
- School of Engineering, Curriculum and Policy Committee: 2011*,2012*
- School of Engineering, Graduate Coordinators Committee: 2011*,2012*
- School of Engineering, Strategic Planning Committee: 2011,2012
- Research Board Committee: 1993-2000, 2005-2006, 2009-2012
- School of Engineering, Network Administrator Search Committee: 2007*,2008*,2009*
- School of Engineering, Dean Search Committee: 2008
- School of Engineering, Civil Engineering Chair Search Committee: 2010
- School of Engineering Dean's Awards Committee: 2007, 2008, 2009, 2010
- Research Advisory Board: 2000-2001
- Academic Program Review committee: 2002-2004
- Research Board Committee: 1993-2000, 2009-2011
- Tenure and Promotion Review Committee: 1995-1999, 2001-2003
- Tenure and Promotion Dean's Advisory Committee: 2001-2002
- Graduate Council Faculty Representative for the School of Engineering-Alternate: 96-99
- Multimedia Classroom Champions Committee: 95-96
- Faculty Senate: 97-99
- Assessment Committee: 1997-2000, 2001-2002, 2003*
- Student Financial Aid Committee: 98-99

Departmental Committees: (* means chairman of the committee)

- Graduate Committee*: 2022-2024
- Research Committee: 2014-2015
- Faculty Search committee: 2022-2023*
- Lab Coordinator Search Committee: 2012*
- Curriculum Committee: 2006-2007*
- Faculty Search Committee: 89-90, 2002, 2004*, 2014*, 2021, 2022*
- Circuits and Systems: 87-91, 91-98, 99*-2000*
- Digital Systems: 91-93
- Material Science, Devices and Models: 87-90
- Analysis and Design: 87-95
- Computer Laboratory: 87-90, 90-91*, 95-96
- Electromagnetic Theory: 89-91, 2007, 2008
- Graduate Study Coordinator: 90-96, 96-97*, 97-2000
- Comprehensive Ph.D. Exam coordinator: 91-95*, 95-96, 96*-99*

Other Professional Activities:

- Co-Chairman of the "Finite-Difference Time-Domain Session", session in the International 2023 IEEE/AP-S Symposium, Portland, Oregon, July 2023
- Member of the Technical Program Committee for the 2014 IEEE Microwave Theory and Techniques Society International conference
- Member of the Technical Program Committee for the 2014 IEEE Antennas and Propagation Society International Symposium and USNC/URSI Conference
- Member of the Technical Program Committee for the 2013 IEEE Microwave Theory and Techniques Society International conference

- Member of the Technical Program Committee for the 2013 IEEE Antennas and Propagation Society International Symposium and USNC/URSI Conference
- Member of the Technical Program Committee for the 2012 IEEE Microwave Theory and Techniques Society International conference
- Member of the Technical Program Committee for the 2012 IEEE Antennas and Propagation Society International Symposium and USNC/URSI Conference
- Co-Chairman of the “Microstrip Antennas and printed Devices”, session in the International 2011 IEEE/AP-S Symposium, Spokane, Washington, July 2011
- Co-Chairman of the “Reflectarray and Transmitarray Antennas”, special session in the International 2011 IEEE/AP-S Symposium, Spokane, Washington, July 2011
- Co-Chairman of the “Antennas for RFID Applications”, session in the International 2011 IEEE/AP-S Symposium, Spokane, Washington, July 2011
- Member of the Technical Program Committee for the 2011 IEEE Antennas and Propagation Society International Symposium and USNC/URSI Conference
- Member of the Technical Program Committee for the 2011 IEEE Microwave Theory and Techniques Society International conference
- Honorary Judge, best paper prize, IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE 2010), Port Dickson, Malaysia, November 2010
- Co-Chairman of the “Electromagnetic Education”, session in the International 2010 IEEE/AP-S Symposium, Toronto, Canada, July 2010
- Co-Chairman of the “Finite Difference Time Domain Method II”, session in the International 2010 IEEE/AP-S Symposium, Toronto, Canada, July 2010
- Member of the Technical Program Committee for the IEEE Antennas and Propagation Society International Symposium and USNC/URSI Conference, 2010
- Member of the Technical Program Committee for the 2010 IEEE Microwave Theory and Techniques Society International Conference
- Poster papers judge, IEEE CEFC Conference, Chicago, Illinois, 2010
- Co-Chairman of the “Hardware Accelerated Computational Techniques for EM Applications”, session in the International IEEE/AP-S Symposium, Charleston, SC, June 2009
- Co-Chairman of the “Optimization and Antenna Design”, session in the International IEEE/AP-S Symposium, Charleston, SC, June 2009
- Co-Chairman of the “Reconfigurable Antennas”, session in the International IEEE/AP-S Symposium, Charleston, SC, June 2009
- Member of the Technical Program Committee for the 2009 IEEE Microwave Theory and Techniques Society International conference
- Member of the Technical Program Committee for the 2009 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Member of the Technical Program Committee for the 2008 IEEE Microwave Theory and Techniques Society International conference
- Member of the Technical Program Committee for the 2008 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Honorary Judge, Asia Pacific Microwave Conference (APMC) best paper prize, Hong Kong, 2008
- International Advisory Board member, Asia Pacific Microwave Conference (APMC), Hong Kong, 2008
- Co-Chairman of the “FDTD and Applications”, session in the International IEEE/AP-S Symposium, San Diego, CA, June 2008

- Co-Chairman of the “Statistical and New Optimization Applications”, session in the International IEEE/AP-S Symposium, Honolulu, Hawaii, June 2007
- Co-Chairman of the “Transient Numerical analysis”, session in the International IEEE/AP-S Symposium, Honolulu, Hawaii, June 2007
- Co-Chairman of the “Problems of Scale and Hybrid Modeling in Time Domain Electromagnetics”, session in the International IEEE Microwave Theory and Techniques Symposium, Honolulu, Hawaii, June 2007
- Member of the Technical Program Committee for the 2007 IEEE Microwave Theory and Techniques Society International conference
- Member of the Technical Program Committee for the 2007 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Technical Co-Chair for the Mid-South Area Engineering and Science Conference (MAES2007)
- Member of the Technical Program Committee for the 2006 IEEE Microwave Theory and Techniques Society International conference
- Member of the Technical Program Committee for the 2006 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Member of the Technical Program Committee for the 2006 IEEE CEFC conference
- Member of the Technical Program Committee for the 2005 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Co-Chairman of the “Beam Forming Network”, session in the International IEEE/AP-S Symposium, Washington DC, June 2005
- Co-Chairman of the “Modeling Using FDTD and FEM”, session in the International IEEE/AP-S Symposium, Washington DC, June 2005
- Member of the Technical Program Committee for the 2004 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Co-Chairman of the “Multi-Band/Wideband Dielectric Resonator Antennas”, session in the International IEEE/AP-S Symposium, Monterey, CA, June 2004
- Co-Chairman of the “Slotted Waveguide Arrays”, session in the International IEEE/AP-S Symposium, Monterey, CA, June 2004
- Co-Chairman of the “Digital Beam Forming Array Design”, session in the International IEEE/AP-S Symposium, Monterey, CA, June 2004
- Chairman of the “MEMS/NEMS and Alternative Nanoscale Sensors”, IEEE Nano scale Devices and System Integration Conference, Miami, FL, February 2004
- Co-Chairman of the “Recent Advances in the FDTD Method”, session in the International IEEE/AP-S Symposium, Columbus, OH, June 2003
- Member of the Technical Program Committee for the 2003 IEEE Antennas and Propagation Society International Symposium and USNC/URSI conference
- Member of the organizing committee for the Memphis Area Engineering and Science Conference (MAES 2003)
- Chairman of the “Electrical Engineering Session C1”, the Memphis Area Engineering and Science Conference (MAES 2003), May 2003
- Chairman of the “Electrical Engineering Session C3”, the Memphis Area Engineering and Science Conference (MAES 2003), May 2003
- Chairman of the “Electromagnetic Waves in Complex Media” Session in the Progress in Electromagnetics Research Symposium (PIERS), Boston, MA, July 2002
- Chairman of the “Bandwidth Enhancement and Minimization of Antennas” session in the International IEEE/AP-S Symposium, San Antonio, Texas, June 2002

- Member of the organizing committee for the Memphis Area Engineering and Science Conference (MAES 2002)
- Chairman of the “Electrical Engineering Session A3”, the Memphis Area Engineering and Science Conference (MAES 2002), May 2002
- Chairman of the “Electrical Engineering Session B3”, the Memphis Area Engineering and Science Conference (MAES 2002), May 2002
- Publication Chair for the Annual Review of Progress in Applied Computational Electromagnetic Society Meeting (ACES), March 2002
- Chairman of the “Finite Difference” session, (ACES) conference, March 2002
- Judge, Mississippi Region VII Science and Engineering Fair, March 2002
- Chairman of the “Finite Methods and Integral Equation Methods” Session in the International Conference on Electromagnetics in Advanced Applications (ICEAA01), Torino, Italy, September 2001
- Chairman of the “Computational Electromagnetics” Session in the Progress in Electromagnetics Research Symposium (PIERS), Osaka, Japan, July 2001
- Member of the organizing committee for the Memphis Area Engineering and Science Conference (MAES 2001)
- Chairman of the “Numerical Techniques” session in Antenna Technology and Applied Electromagnetics Symposium (ANTEM'2000), Winnipeg, Canada, August 2000.
- Chair of the Educational Activities Committee Region 3 of IEEE, January 2000 - December 2001
- Member of the organizing committee for the IEEE-APS Conference on Antennas and Propagation for Wireless Communications (AWPC2000)
- Member of the organizing committee for the Memphis Area Engineering and Science Conference (MAES), 2000
- Publication Chair for the Annual Review of Progress in Applied Computational Electromagnetic Society
- Organizer of the “Antennas” session in the IEEE-APS Conference on antennas and propagation for wireless Communications, November 2000
- Participation in the IEEE Admission and Advancement Committee meeting, Memphis, May 2000
- Chairman of the “Applications of the Finite Difference Time Domain Technique” session, the Applied Computational Electromagnetic Society (ACES) conference, March 2000
- Chairman of the “Finite Difference” session, (ACES) conference, March 1999
- Co-chairman of the “Guided Waves” session in the International IEEE/AP-S Symposium, Orlando, Florida, July 1999
- Chairman of the “FDTD” session, (ACES) conference, March 1998
- Member of the organizing committee for the IEEE-APS Conference on Antennas and Propagation for Wireless Communications (AWPC1998)
- Chairman of the “Finite Methods” session in the International Radio Science Meeting URSI-B, June 1996
- Chairman of the software exchange committee of the Applied Computational Electromagnetic Society (ACES), 1996-2000
- Co-chairman of the “Analysis and Synthesis of Microstrip Patch Antennas” session in the International IEEE/AP-S Symposium, Newport Beach, CA, June 1995
- Co-chairman of the “Multilayer Microstrip Antennas and Surface Wave Suppression” session in the International IEEE/AP-S Symposium, Seattle, WA, June 1994

- Organizer and Chairman of the “Recent Advances in the Computation of the Scattering and Diffraction of Electromagnetic Waves” Session in the third Progress in Electromagnetics Research Symposium (PIERS), Pasadena, CA, July 1993
- Organizer and Chairman of the “Scattering and Diffraction of Electromagnetic Waves” Session in the third Progress in Electromagnetics Research Symposium (PIERS), Pasadena, CA, July 1993
- Organizer and Chairman of the “Scattering From Composite Structures” session in the Second Progress in Electromagnetics Research Symposium (PIERS), Boston, MA, July 1991
- Chairman of the “Scattering and Diffraction” session in the International IEEE/AP-S Symposium, London, Canada, June 1991
- Chairman of the “Transient Electromagnetic Theory” session in Antenna Technology and Applied Electromagnetics Symposium (ANTEM'90), Winnipeg, Canada, August 1990
- Chairman of the “Numerical Methods II” session in the International Union of Radio Science meeting (URSI), Dallas, TX, May 1990

Publications, Books, book chapters, and presentations are available in separate documents and can be available upon request.