

MOHAMMAD SHAHIDEHPOUR

Bodine Chair Professor and Director, Robert W. Galvin Center for Electricity Innovation
Illinois Institute of Technology, Chicago, Illinois 60616
Tel: (312) 567-5737, e-mail: ms@iit.edu
<http://www.ece.iit.edu/~ms>

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SUMMARY OF ACTIVITIES

Dr. Mohammad Shahidehpour is the Bodine Chair Professor in the Electrical and Computer Engineering (ECE) Department and Director of Robert W. Galvin Center for Electricity Initiative at Illinois Institute of Technology (IIT). He has been a faculty member at IIT for the last 29 years where he received the IIT's Excellence in Teaching Award. At IIT, he has also served as the Associate Provost for Research, Dean of the Graduate College, Associate Dean of Engineering for Research and Graduate Studies, and Chair of the ECE Department. Under his leadership in 2010, the ECE Department was bestowed the IIT's prestigious research award for "Highest Research Grant Dollars per Faculty."

Dr. Shahidehpour is an expert in **electric power system optimization and control** with specific interests in the modeling of **electricity markets with microgrids and sustainable energy applications**. He is currently the principal investigator (PI) of over **\$40 million grants** on smart grid and sustainable energy. His perfect power project which is funded by the Department of Energy (DOE) has converted the IIT campus to a smart microgrid with a 20% reduction in its base load consumption and 50% reduction in the peak load consumption. He is the PI for a consortium of industry and academic researchers which study the next generation of wind turbine technology. He is also the PI for a wind integration project which investigates the optimal locations for wind energy integration and its impact on the U.S. Eastern Interconnection.

He has worked with and supervised **95** visiting faculty and doctoral and master's degree students. He is the co-author of **380** technical papers and six books on electric power system planning, operation, and control. He is also the recipient of **three best paper awards** for his publications in IEEE Transaction on Power Systems. In 2011, he received the Association of Electrical Engineering Department Heads' Innovation Award, the IEEE PES/Chicago Chapter's Engineer of the Year Award, and the Illinois Technology Association's Technologist of the Year Award. . For his contributions to power system research and development, he was awarded the **IEEE T. Burke Hayes** Faculty Recognition Award and the Sigma Xi Outstanding Senior Faculty Research Award. He also received the **Edison Electric Institute's** Power Engineering Educator Award and the **C. Holmes MacDonald** Outstanding Young Electrical Engineering Professor Award for his contributions to research and education. Dr. Shahidehpour is a **Fellow of IEEE** for his contributions to optimal generation unit commitment algorithms in power systems.

Dr. Shahidehpour served on the Governing Board of the IEEE Power and Energy Society as **VP of Publications** and is currently the **Editor-in-Chief** of the IEEE Transaction on Smart Grid. He also served as an **Editor** of the IEEE Transactions on Power Systems for 13 years and the Guest Editor of IEEE Journals (seven times). He has been a member of the **Editorial Board of 11 journals**, and the organizing committee of several international conferences including the Technical **Program Chair** of the 2010 IEEE Innovative Smart Grid Technologies Conference. He served as the Chair of the IEEE Power System Operation Committee and received the Distinguished Service Award for serving on the Committee's Executive Council for eight years. He is also the recipient of six recognition awards for chairing and completing the mandated tasks of several IEEE/PES working groups. Dr. Shahidehpour is an **IEEE Distinguished Lecturer** and has delivered over 60 lectures across the globe on electricity restructuring and smart grid issues. He has been a keynote speaker in six International Conferences since 2007. He was the **president of the National Electrical Engineering Honor Society (HKN)**, served on its executive committee for eight years, and received several awards for his contributions to the Society.

Professor Shahidehpour received his PhD degree in electrical engineering from the University of Missouri in 1983. He is also the 2009 recipient of the **honorary doctorate** from the Polytechnic University of Bucharest. He is currently a **Research Professor** at King Abdulaziz University (Jeddah) and **Honorary Professor** in the North China Electric Power University (Beijing) and the Sharif University of Technology (Tehran). Dr. Shahidehpour was a member of the United Nations Commission on Microgrid Studies.

ACADEMIC APPOINTMENTS

Illinois Institute of Technology

Academic Positions in the Electrical and Computer Engineering Department

2005-present Bodine Chair Professor
1991-2005 Professor
1986-1991 Associate Professor
1983-1986 Assistant Professor

Administrative Positions at Illinois Institute of Technology

2010-Present Director, Robert W. Galvin Center for Electricity Innovation
2005-2010 Chair, ECE Department
2000-2005 Director, Electric Power and Power Electronics Center
1994-2000 Associate Provost for Research and Dean of the Graduate College
1993-1994 Associate Dean of Engineering for Research and Graduate Studies
1986-1991 Associate Chairman, Electrical and Computer Engineering Department
1985-1986 Director of Graduate Studies, Electrical and Computer Engineering Department

Other Appointments

2011-present Research Professor, King Abdulaziz University, Jeddah, Saudi Arabia
2006-present Honorary Professor, Sharif University of Technology, Iran
2002-present Honorary Professor, North China Electric Power University, Beijing

TEACHING AND RESEARCH INTERESTS

Research Interests: Power system planning and operation, microgrid design and operation, smart grid applications to sustainable energy, stochastic optimization of electric power systems, alternatives in electric power systems, off-shore wind energy integration, electricity market design, infrastructure interdependency analyses, computational economics, and decision analyses

Publications: over 360 technical articles and 6 books; 300 presentations, invited lectures, and conference chairmanship

Research Supervision and Activities: 34 doctoral dissertations, 35 post-doctoral fellows, and 26 Master's thesis students

Technical Courses Taught: Elements of Smart Grid, Microgrid Design and Operation, Market Operations in Power Systems, Operation and Control of Power Systems, Communication and Control in Power Systems, Renewable Electric Power Systems, Optimization Theory and Applications, Stochastic Methods Applied to Power Systems, Deregulated Power Systems, Power Systems Planning, Maintenance Scheduling in Power Systems, Control and Stability of Power Systems, Fault Tolerant Power Systems, Power System Reliability, Computational Methods in Power Systems, Power System Analysis, Linear Control Systems.

EDUCATION

- Ph.D. Electrical Engineering Department, University of Missouri, Columbia, 1981
M.S. Electrical Engineering Department, University of Missouri, Columbia, 1978
B.S. Electrical Engineering Department, Sharif University of Technology, Iran, 1977 (High Honors)

BOOKS

1. M. **Shahidehpour** and M. Marwali, Maintenance Scheduling in Restructured Power Systems, Springer, May 2000
2. M. **Shahidehpour** and M. Alomoush, Restructured Electrical Power Systems, Taylor and Francis, June 2001
3. M. **Shahidehpour**, H. Yamin and Z. Li, Market Operations in Electric Power Systems, John Wiley and Sons, March 2002
4. M. **Shahidehpour** and Y. Wang, Communication and Control of Electric Power Systems, John Wiley and Sons, June 2003
5. M. **Shahidehpour**, Z. Li and Y. Fu, Energy System Control and Operation, John Wiley and Sons, 2012
6. M. **Shahidehpour** and L. Wu, Stochastic Methods in Electric Power Systems, John Wiley and Sons, 2012

PATENT

- P. Ristanovic, M. Bjelogric, J. Frame, M. Aganagic, and M. **Shahidehpour**, "Exchange, Scheduling and Control System for Electrical Power," Patent #7343360, Issued on March 11, 2008.

HONORS AND AWARDS

Honors

- 2011 Research Professor, King Abdulaziz University, Jeddah, Saudi Arabia
- 2010 Honorary Professor, Sharif University of Technology, Iran
- 2010 Honorary Professor, North China Electric Power University, Beijing, China
- 2009 Honorary Doctorate, Polytechnic University of Bucharest, Romania, June 2009
- 2003 IEEE Distinguished Lecturer (has made 80 presentations in 25 countries)
- 2001 Fellow of IEEE (for contributions to Security-Constrained Unit Commitment)
- 2000 National President of HKN (Board President for the EE Honor Society)
- 1993 Listed as one of the 50 R&D Stars to Watch, Industry Week magazine

Teaching and Research Awards

- 2011 Technologist of the Year Award (Presented to the individual whose talent has championed true technology innovation, either through new application of existing technology or the development of technology to achieve a truly unique product or service), Illinois Technology Association
- 2011 IEEE PES Outstanding Engineer Award (for significant leadership and contributions towards IIT's Prefect power microgrid, the IIT's wind consortium, and the IIT's Smart Grid Education and Workforce Development), IEEE PES Chicago Chapter
- 2011 Innovative Program Award (for leadership in the development of an innovative energy research program at IIT), Electrical Engineering Department Head Association Annual Award
- 2010 IIT's First Research Leadership Award (in Recognition of Outstanding Accomplishments in Developing Strong Research Collaborations and Large Scale Research Projects)
- 2009 IEEE Chicago Section Distinguished Mentoring Award
- 2008 IEEE/PSO Transactions Prize Paper Award (GENCO's Risk-Constrained Hydrothermal Scheduling, IEEE Transaction on Power Systems, Vol. 23, No. 4, pp. 1847-1858, Nov. 2008)
- 2007 IEEE/PES T. Burke Hayes Faculty Recognition Award in Electric Power Engineering
- 2005 IEEE/PES Transactions Prize Paper Award (Short-term Scheduling of Combined Cycle Units, IEEE Transaction on Power Systems, Vol. 19, No. 3, pp. 1616-1625, Aug. 2004)
- 2004 IEEE/PSO Transactions Prize Paper Award
- 2003 Sigma Xi Outstanding Senior Faculty Research Award
- 1999 Best Technical Paper Award, North American Power Symposium
- 1993 Edison Electric Institute's Power Engineering Educator Award
- 1990 C. Holmes MacDonald Outstanding Young Electrical Engineering Professor Award
- 1990 University's Excellence in Teaching Award, IIT
- 1982 University's Distinguished Faculty Award, University of Michigan-Dearborn

Service Awards

- 2012 Distinguished Service Award, IEEE Power &Energy Society (For serving as General Chair of the 2012 IEEE Innovative Smart Grid Conference)
- 2011 Distinguished Service Award, IEEE Power &Energy Society (For serving as VP of Publications)
- 2009 Distinguished Service Award, IEEE Power &Energy Society (For chairing the Power System Operations Committee)
- 2009 IEEE/PES Recognition Award for Chairing the Working-Group on Perfect Power Systems
- 2008 IEEE/PES Recognition Award for Chairing the Working-Group on Power Transmission Planning
- 2007 IEEE/PES Recognition Award for Chairing the Working-Group on Aging Power Systems
- 2006 IEEE/PES Recognition Award for Chairing the Working-Group on Power Asset Management
- 2000 Outstanding IEEE/PES Subcommittee Chair Award
- 1995 Outstanding IEEE/PES Working-Group Award (Power System Restoration)
- 1994 Distinguished Service Award, American Power Conference
- 1988 Outstanding HKN Chapter Advisor Award

Recent Keynote Speeches

- 2011 2011 IEEE ISGT Conference-Australia, Perth, Australia
- 2011 2011 IEEE ISGT Conference-Middle East, Jeddah, Saudi Arabia
- 2011 Fourth DRPT Conference, Weihai, Shandong, China
- 2011 2011 ICEE Conference, Amirkabir University, Tehran, Iran
- 2010 2010 ISGT Conference, Gothenburg, Sweden
- 2010 2010 PMAPS Conference, Singapore
- 2010 Third Brazilian Symposium on Electrical Power Systems, Belem, Brazil
- 2010 41st Energy Information Dissemination Program, Oklahoma State University
- 2010 2010 ICEE, Isfahan University of Technology, Iran
- 2009 2009 Meeting of Italian Federation of Electrical Engineers, Catania
- 2009 2009 Asia T&D Conference, Seoul, South Korea
- 2009 2009 PowerTech Conference, Bucharest, Romania
- 2008 2008 Power System Conference, Tehran, Iran
- 2007 Industrial & Commercial Use of Energy Conference, Cape Town, South Africa
- 2003 National Power Engineering Conference, Malaysia

EDITORIAL BOARD MEMBERSHIP

IEEE Editorial Activities

2009-present	Editor-in-Chief, IEEE Transaction on Smart Grid
2008-2011	Vice President of Publications, IEEE Power and Energy Society
1995-2008	Editor, IEEE Transactions on Power Systems
2008	Guest Editor, IEEE Power and Energy Magazine (Energy Efficiency)
2007	Guest Editor, IEEE Power and Energy Magazine (Transmission System Planning)
2006	Guest Editor, IEEE Power and Energy Magazine (Aging Electricity Infrastructure)
2005	Guest Editor, IEEE Power and Energy Magazine (Asset Management)
2005	Guest Editor, IEEE Proceedings (Power Technology and Policy)
2004	Guest Editor, IEEE Power and Energy Magazine (Electricity Market)
2003	Guest Editor, Special Issue in IEEE Transaction on Power Systems

Member of Editorial Boards

2009-present	Member of the Editorial Board, The Electricity Journal
2009-present	Member of the Editorial Board, Energy Systems Journal
2004-present	Member of the Editorial Board, KIEE Journal of Power Engineering (Korea)
2004-present	Member of the Editorial Board, International Journal of Emerging Electric Power
2003-present	Member of the Editorial Board, IEEE Power and Energy Magazine
2000-2002	Member of the Editorial Board, HKN Bridge Magazine
2000-2002	Editor, Marcel Dekker Book Series in Power Systems
1998-2002	Member of the Editorial Board, IEEE CAP Journal
1997-2000	Member of the Editorial Board, IEEE Transactions on Systems, Man and Cybernetics
1997-2009	Member of the Editorial Board, Journal of Electric Power Systems Research
1997-2008	Member of the Editorial Board, IEEE Power Engineering Letters
1996-2000	Member of the Editorial Board, Journal of Electric Machines and Power Systems

RESEARCH AND DEVELOPMENT GRANTS AND CONTRACTS

1. A World-Class Smart Grid Education and Workforce Training Center, (\$12,600,000 total), DOE, 2010-2013, (PI)
2. Battery and Charging Stations for Perfect Power System, (\$1,000,000 total), DOE, 2011-2012 (PI)
3. Illinois Smart Grid Regional Innovation Cluster, \$1,300,000, Small Business Administration (SBA), 2010-2012 (Co-PI)
4. Perfect Power System at IIT, (\$12,000,000 total), DOE, 2008-2013 (PI)
5. A World-Class University-Industry Consortium for Wind Energy Research, Education, and Workforce Development, (\$9,000,000 total), DOE, 2010-2011 (PI)
6. Illinois Smart Solar Initiative, \$220,000, Illinois Department of Commerce and Economic Opportunity, 2012-2013, (PI)
7. Local Area Monitoring System (LAMS) for Microgrid, \$400,000, KERI, 2011-2013 (Co-PI)
8. Stochastic Optimization and Coordination Control of Demand Response for Enhancing the Secure and Economic Operation of Power Systems, (\$300,000), NSF, 2011-2014, (Co-PI)
9. Power Engineering Research and Education, \$5000,000, Grainger Foundation, 2007-2012 (PI)
10. Wind Integration in the U.S. Eastern Interconnection, \$750,000, DOE, 2009-2010 (PI)
11. Coordination of Renewable Hydro-Wind Units for Enhancing the Hydrothermal Power System Operation, \$350,000, National Science Foundation, 2008-2011 (Co-PI)
12. Security-Constrained Optimal Coordination of Generation and Transmission Maintenance Outage Scheduling, \$300,000, National Science Foundation, 2007-2010 (Co-PI)
13. Electricity Supply and Demand Analysis Model, Korea Power Exchange, \$130,000, 2007-2009 (PI)
14. Electrical Engineering Laboratory Development, \$80,000, Elite Electronics, 2006 (PI)
15. Wind Energy Technology Development in Illinois, \$50,000, Invenergy Corp, 2006 (PI)
16. Technical and Market Integration of Small Hydro Development, \$50,000, Orenco Corp. 2006 (PI)
17. Electrical Engineering Laboratory Development, \$400,000, Cherry Electronics, 2006 (PI)
18. Electrical Engineering Laboratory Development, \$500,000, Zebra Technology, 2005-2006 (PI)
19. Security Constrained Maintenance Scheduling, \$1,000,000, Siemens Corporation, 2006-2008 (PI)
20. Unit Commitment with AC Constraints, \$700,000, Nexant Corporation, 2004-2005 (PI)
21. Power Engineering Research, \$500,000, Grainger Foundation, 2004 (PI)
22. A Novel Approach for Improving Power Electronics and Electric Drives Curriculum, \$400,000, NSF, 2003 (Co-PI)
23. Leader Follower for Power Market Operations, \$150,000, NSF, 2003 (Co-PI)
24. PV-Battery System for Transmission Management, \$120,000, DOE, 2003 (PI)
25. Probabilistic Risk Evaluation of Transmission Systems, \$70,000, ComEd, 2002 (PI)
26. Virtual Counseling in Illinois High Schools, \$50,000, Illinois Board of Higher Ed, 2001 (PI)
27. Power Engineering Innovations, \$500,000, Grainger Foundation, (was matched by IIT for a total of \$1,000,000), 2000-2001 (PI)
28. Distributed Control of Power Systems, \$250,000, ONR, 1999 (Co-PI)
29. Illinois State Matching Grant Program, \$43,000, Illinois Board of Higher Education, 1999 (PI)
30. Power Engineering Laboratory Research, \$200,000, ComEd, 1998 (PI)
31. Interactive Risk-Based Planning for Dynamic Contingencies, \$150,000, EPRI, 1998 (Co-PI)
32. A Multi-Agent Approach to Feeder Reconfiguration, \$50,000, NSF, 1998 (Co-PI)

33. Grainger Power Engineering Laboratory at IIT, \$200,000, Grainger Foundation, 1997 (PI)
34. Derivatives and Generation Business Opportunities, \$32,000, EPRI, 1997 (Co-PI)
35. A WWW ALN for the Utility Industry, \$30,000, Sloan Foundation, 1997
36. Knowbots for Internet-Based Combat Training, \$125,892, ARO, 1996 (Co-PI)
37. Application of Game Theory to Power Systems, \$43,500, Siemens Corporation, 1996 (PI)
38. Real-Time Control and Operation of Electric Power Systems, \$155,000, DOE, 1995 (PI)
39. A Massively Parallel Population-Based Approach to Operations Scheduling, \$72,687, NSF, 1995 (PI)
40. Application of Fuzzy Set Theory to Security Constrained Optimal Reactive Power Control in a Multi-Area, \$49,000, NSF, 1994 (PI)
41. Railroad Transportation Curriculum Development for Enhancing the U.S. Infrastructure, \$180,000, NSF, 1993 (Co-PI)
42. Resource Scheduling and Commitment, \$25,000, Commonwealth Edison Company, 1993 (PI)
43. Special Machine Design, \$20,000, C.E. Neihoff Corporation, 1991 (Co-PI)
44. Electric Power Distribution Innovation, \$20,000, Commonwealth Edison Company, 1991 (PI)
45. Application of Fuzzy Logic to Power Plant Scheduling, \$7,500, TCC, 1991 (PI)
46. Application of Artificial Neural Networks in Multi-Area Generation Scheduling with Fuzzy Data, \$60,400, EPRI, 1990 (PI)
47. Scheduling of Power Interchange Between Interconnected Utilities, \$9,600, TCC, 1990 (PI)
48. Application of Expert Systems to Generation Control and Scheduling in Large Power Plants, \$24,000, TCC, 1989 (PI)
49. Expert System for Operational Scheduling and Generation Control, \$49,200, EPRI, 1988 (PI)
50. Application of Expert Systems to Operational Reliability Analysis in a Large Plant, \$10,000, ERIF, 1987 (PI)
51. Surge Protection of Underground Distribution Systems, \$22,500, Commonwealth Edison Company, 1986 (PI)

INDUSTRIAL ACTIVITIES

2003-present President, Global Energy Market Solutions

Recent consulting activities include:

American Wind Connection, CA, 2011-present

Offshore Wind Integration Studies
HVDC Modeling

Adica, Downers Grove, IL, 2010-present

Illinois Power Agency Studies
Smart Homes

TransElect, Chicago, IL, 2008-present

Wind Power Integration Planning

Acciona, Chicago, IL, 2008-present

Wind Power Integration Planning

Korea Power Exchange, Korea, 2007-2009

Power System Planning

American Transmission Company, Waukesha, WI, 2006-2008

Security-Constrained Unit Commitment
Optimal Transmission Maintenance Scheduling

LCG Consulting, Los Altos, CA, 2007-2009

Security-Constrained Unit Commitment for Greece.

Siemens Energy Automation, Minneapolis, MN, 1994-2008

Security-Constrained Unit Commitment
Optimal Transmission Maintenance Scheduling
Optimal Generation Maintenance Scheduling
Security-Constrained Integrated Maintenance Scheduling

New England ISO, Holyoke, MA, 2006-2007

Security-Constrained Unit Commitment
Optimal Transmission Maintenance Scheduling

Nexant Corporation, San Francisco, CA, 2003-2006

Day-ahead Security-Constrained Unit Commitment with AC Network Constraints
Reliability-Centered Generation and Transmission Maintenance Scheduler
Market Power Monitoring

Exelon Corporation, Chicago, IL, 1990-2002

Probabilistic Transmission Risk Analysis for the ComEd's Control Area

KEMA Consulting, Fairfax, VA, 2001

Evaluation of commercial software capabilities for current and future generation scheduling projects

Open Access Technology International, Inc., 2000

Locational Marginal Price (LMP) Calculation
Inter-zonal and Intra-zonal Congestion Management
Firm Transmission Right (FTR) Auction
Price-based Unit Commitment (PBUC)
Value at Risk (VaR) Calculation

INVITED TALKS AT EDUCATIONAL INSTITUTIONS AND INDUSTRY

(Sponsored by the host or the IEEE Distinguished Lecture program)

1. University of Texas at Arlington (2012)
2. King Abdulaziz University, Jeddah, Saudi Arabia (2012)
3. Annual Meeting of Electrical Engineering Department Head Association, Austin (2012)
4. PJM Interconnection (2012)
5. Sharif University of Technology, Tehran, Iran (2011)
6. King Abdulaziz University, Jeddah, Saudi Arabia (2011)
7. K.N. Toosi University, Tehran, Iran (2011)
8. Cigre Conference on Electric Power System of Future, University of Bologna, Italy (2011)
9. Tianjin University, Tianjin, China (2011)
10. Annual Meeting of Electrical Engineering Department Head Association, Phoenix (2011)
11. University of Nevada, Reno (2011)
12. Illinois Science & Technology Coalition Meeting at the U.S. Capitol, Washington, DC (2011)
13. U.S. Department of Energy Workshop on Workforce Development, Washington, DC (2011)
14. National Renewable Energy Laboratory, Boulder (2011)
15. Achievement Rewards for College Scientists (ARC) Foundation, Chicago (2011)
16. Stuart School of Business, IIT, Chicago (2011)
17. IIT Alumni Association, Anaheim (2011)
18. Petroleum Institute, Abu Dhabi (2010)
19. Korea University, Seoul (2010)
20. KEPCO Electric Power Research Institute, Daejeon, Korea (2010)
21. 2010 Nebraska Research and Innovation Conference, Lincoln, Nebraska (2010)
22. 2010 EEI Transmission and Distribution Conference, Denver (2010)
23. Chalmers University, Sweden (2010)
24. Federal University of Para, Belem, Brazil (2010)
25. Oklahoma State University (2010)
26. IEEE Chicago Section (2010)
27. Isfahan University of Technology, Iran (2010)
28. Sharif University of Technology, Iran (2010)
29. Nanyang Technological University, Singapore (2010)
30. National Seoul University, South Korea (2009)
31. University of Bologna, Italy (2009)
32. British Columbia Hydro, Canada (2009)
33. Polytechnic University of Bucharest, Romania (2009)
34. University of São Paulo, San Carlos, Brazil (2008)
35. Federal University do Rio Grande do Sul, Porte Alegre, Brazil (2008)
36. Pontifical Catholic University, Porte Alegre, Brazil (2008)
37. Tehran University, Iran (2008)
38. Sharif University of Technology, Iran (2008)

39. Cape Peninsula University of Technology, Cape Town South Africa (2008)
40. University of the Witwatersrand, Johannesburg, South Africa (2008)
41. Regulatory Authority for Energy, Athens, Greece, (2007)
42. American Transmission Company, Wisconsin (2007)
43. Electricity Engineers Association of New Zealand, Auckland (2007)
44. University of Auckland, New Zealand (2007)
45. Transpower New Zealand, Ltd, Wellington, New Zealand (2007)
46. Citadel Group, Illinois (2007)
47. American Transmission Company, Wisconsin (2006)
48. University of Waterloo, Canada (2006)
49. Sharif University of Technology, Iran, (2006)
50. Korea Power Exchange, Seoul (2006)
51. IEEE India Power Conference, Delhi (2006)
52. IEEE Qatar Section, Qatar (2006)
53. IEEE Dhahran Section, Saudi Arabia (2006)
54. King Fahd University of Petroleum and Minerals, Saudi Arabia (2006)
55. Polytechnic University of Tehran, Iran (2006)
56. Grid Management Corporation, Iran (2006)
57. Istanbul Technical University, Turkey (2005)
58. Mohandes Society, Toronto, Canada (2005)
59. University of Ireland (2005)
60. University of London, U.K. (2005)
61. Technical University of Bucharest, Romania (2005)
62. IEEE Chicago Section of PES, Chicago (2005)
63. IEEE Fox Valley Section, Illinois (2004)
64. University of Engineering and Technology, Lahore, Pakistan (2004)
65. Central Electricity Authority HQ, Delhi, India (2004)
66. Indian Institute of Technology, Madras, India (2004)
67. Federation of Andhra Pradesh Chambers of Commerce, Hyderabad, India (2004)
68. Jadavpur University, Calcutta, India (2004)
69. National Power Engineering Conference (keynote Speaker), Malaysia (2003)
70. American University of Beirut, Lebanon (2003)
71. Nexant Corporation, Arizona (2003)
72. OM Corporation, California (2003)
73. California ISO, Sacramento (2003)
74. American Transmission Company, Wisconsin (2003)
75. Sargent and Lundy Corporation, Illinois (2003)
76. Pars Corporation, California (2003)
77. North China Electric Power University, Beijing (2003)
78. Kolej Universiti Teknikal Kebangsaan Maleka, Malaysia (2003)
79. Exelon Corporation, Illinois (2002)

80. Yarmouk University, Jordan (2002)
81. Energy Transmission Company, Jordan (2002)
82. North China Electric Power University, China (2002)
83. Tsinghua University, China (2002)
84. Electric Power Research Institute, China (2002)
85. Tehran University, Iran (2002)
86. Energy Research Center, Ministry of Energy, Iran (2001)
87. Sharif University, Tehran, Iran (2001)
88. Ferdowsi University, Iran (2000)
89. Michigan Technological University (2000)
90. Southern Illinois University (2000)
91. OATI Corporation, Minnesota (1999)
92. Argonne National Laboratory, Illinois (1998)
93. University of Missouri-Rolla, Missouri (1997)
94. San Juan University, Argentina (1996)
95. Commonwealth Edison Company, Illinois (1995)
96. Marquette University, Wisconsin (1994)

GRADUATE STUDENTS AND VISITING SCHOLARS

(The list includes 95 PhD students, visiting professor and scholars, and master's students)

Ph.D. Students (Date of graduation is given in parenthesis)

1. K. Aflaki (ongoing) Power System Operation
2. M. Khodayar (ongoing) Power System Operation
3. M. Ghamdi (ongoing) Power System Operation and Planning
4. W. Tian (2011) Simulation of Large Wind Integration in the Eastern Interconnection
5. A. Khodaei (2010) Transmission Switching in Power System Operation and Planning
6. S. Bahramirad (2010) Design and Implementation of Hydrokinetic Run-of-River Turbines
7. S. Kamalinia (2010) Expansion Planning of Fast-Response Units for Wind Integration
8. C. Liu (2010) Interdependency of Gas and Electricity in Restructured Power Systems
9. A. Lotfju (2009) DC Transmission System Integration for Enhancing Deliverability
10. L. Wu (2008) Stochastic Security-Constrained Unit Commitment
11. L. Abreu (2008) Wind Energy Coordination and Control
12. J. Roh (2008) Power System Planning in Restructured Power Systems
13. J. Wang (2007) Market Design Tools in Restructured Power Systems
14. H. Daneshi (2006) Market Simulation in Electric Power Systems
15. Y. Fu (2006) Security-Constrained Operational Planning in Power Systems
16. T. Li (2006) Competition and Risk Management in Power Markets
17. B. Lu (2004) SCUC with Flexible Operating Conditions
18. Z. Li (2002) Asset Valuation and Risk Analysis in Electric Power Systems
19. H. Yamin (2001) Options for Pricing Ancillary Services in a Deregulated System
20. M. Alomoush (1999) Auctionable Fixed Transmission Rights for Congestion Management
21. E. Rezanian (1998) Contingency Constrained Available Transfer Capability Calculations
22. J. Kavicky (1997) Application of Parallel Path in Transmission Open Access
23. M. Marwali (1997) Coordinated Transmission and Generation Maintenance Scheduling
24. H. Ma (1997) Decomposition Techniques for AC Unit Commitment
25. R. Ferrero (1997) Game Theory Applications to Deregulated Power System Operation
26. K. Abdul-Rahman (1994) Applications of Fuzzy Sets to Power Systems Operation and Planning
27. C. Wang (1992) Generation Scheduling of Hydro-Thermal Systems with Uncertain Data
28. C. Nwankpa (1990) Stochastic Models for Power System Dynamic Stability Analysis
29. Z. Ouyang (1990) Artificial Intelligence for Short Term Power Generation Scheduling
30. N. Deeb (1989) Decomposition Approach to Optimal Reactive Power Dispatch
31. S. Tong (1989) Generation Scheduling in Large Scale Hydro Thermal Power Systems
32. N. Abbasy (1988) Optimal Set of Measurements for Estimation of System States
33. S. Shah (1988) Expert Systems Application to Power Network Security Analysis
34. J. Qiu (1987) Effect of Random Perturbations on Power Systems Reliability Evaluation
35. J. Banda (1985) Surge Protection in Underground Distribution Systems

Visiting Faculty and Post-doctoral Scholars

1. Professor Q. Yan, North China Electric Power University (2011-2012), Electric Vehicles
2. Professor K. Nikraves, Amirkabir University (2011-2012), Power System Stability
3. Professor K. Li, Hebei University of Technology (2011-2012), Microgrid Design
4. Dr. W. Tian, GEMS Corporation (2011-2012), Large Scale Wind Integration
5. Dr. A. Khodaei, GEMS Corporation (2011-2012), Power System Planning
6. Dr. H. Wu, Xian Jiaotong University (2011-2013), Demand Response and Energy Efficiency Studies
7. Professor J. Shu, China Electric Power University, China, (2009-2010): Power System Planning
8. Professor Z. Tan, North China Electric Power University, China, (2008-2009): Economics of Electricity Markets
9. Professor M. Pantos, University of Ljubljana, Slovenia, (2008-2009): Power System Planning
10. Professor Y.H. Song, University of Liverpool, (2008-2009): Computational Intelligence in Power Systems
11. Professor J. Liu, Sichuan University, China, (2008-2009): Market Operation of Electric Power Systems in China
12. Dr. T.K. Hahn, Kyungwon University, Korea, (2008-2010): Market Operation of Electric Power Systems in Korea
13. Mr. C. Sahin, Middle East Technical University, (2008-2009): Gas &Electricity Interdependencies
14. Mr. Farrokh Aminfar, Sharif University, (2009-2010): Reliability Evaluation of PMUs
15. Professor J. Choi, Gyeongsang National University, Korea, (2007-2009): Power System Planning
16. Professor J. Mantovani, Sao Paulo State University, Brazil, (2006-2007): Power System Operation
17. Dr. Y. Fu, GEMS Corporation, (2006-2007) Outage Management in Electricity Markets
18. Dr. T. Li, GEMS Corporation, (2006-2007): Strategic Bidding in Electricity Markets
19. Mr. O. Tor, Middle East Technical University, (2004-2005): Restructuring Models for Turkey
20. Dr. H. Kim, Pusan University, Korea, (2004-2006): Simultaneous Auction of Energy
21. Dr. Z. Li, GEMS Corporation, (2002-2003): Probabilistic Transmission Risk Analysis
22. Dr. Y. Wang, Tianjin University, PRC, (1999-2003): Distributed Energy Management Systems
23. Dr. H. Shانهchi, Ferdowsi University, Iran, (2001): Distributed Generation Technologies
24. Dr. M. Alomoush, Yarmouk University of Jordan, (1999-2000): Supervisory Control of a Deregulated Power System
25. Dr. M. Marwali, Agency for the Assessment and Application of Technology, Indonesia, (1998): Reliability-Centered Maintenance Scheduling in Deregulated Power Systems
26. Dr. X. Wang, Harbin Institute of Technology, PRC (1995-1996): Power Systems Voltage Stability
27. Dr. R. Ferrero, University of San Juan, Argentina (1994-1996): Game Theory Applications to Power Systems
28. Prof. S. Zhu, Tsinghua University, PRC (1994-1995): Power Plants Control and Operation
29. Dr. X. Bai, Electric Power Research Institute, Beijing, PRC (1994-1995): Hydro-thermal Power Systems
30. Dr. K. Abdul-Rahman, Siemens Corporation (1993-1994): Optimal Generation Scheduling by Augmented Relaxation Method
31. Dr. I. Roytelman, Kiev Research and Design Institute, Kiev, USSR (1992-1993): Power Distribution Automation Techniques

32. Prof. M. Pourkermani, Technical University of Stuttgart, Germany (1991-1992): Special Purpose Synchronous Machines
33. Dr. S. Li, Research Institute of Electric Light Source Material, Nanjing, PRC (1990-1991): Objected Oriented Graphics in Power Systems
34. Prof. S. Sun, Tsinghua University, PRC (1986-1989): Power Systems Planning Techniques in China

M.S. Thesis Students (Date of graduation is given in parenthesis)

1. Joan Camprubi (2011) Sustainable Stadiums
2. H. Noohi (2010) Wind Integration in the Eastern Interconnection
3. B. Noohi (2009) Cyber Security issues in Power Systems
4. S. Duggirala (2006) Transmission Planning in Restructured Power Systems
5. A. Khan (2006) Wind Speed Forecasting using Wavelets
6. V. Ellia (2005) Agents in Electric Power System Operation
7. D. Patil (2005) Design of Batteries for Electric Cars
8. J. Bui (2005) Hydrogen Economy
9. M. Phadke (2004) Equivalent Energy Function Approach to Photovoltaic-Utility Systems
10. A. Koshi (2004) Superconductors in Electric Power Systems
11. N. Sriram (2004) Biomass in Electric Power Systems
12. A. Joseph (2004) Battery and Storage in Electric Power Systems
13. S. Kullanthasamy (2004) Asset Management in Power Systems
14. S. Sood, (2004) Power Generation at Brownfields
15. S. Sheth (2004) Geothermal Energy in Power Systems
16. R. Pegallapati (2004) Small Hydro as Green Power
17. P. Ganesan (2003) Transmission Management in Restructured Power Systems
18. G. Ponnuvel (2003) Impact of Losses on Transmission Pricing
19. A. Eybalin (2002) Restructuring Models for European Countries
20. M. Albaijat (1999) Optimal Power Flow Calculation with Evolutionary Programming
21. N. Maricar (1998) Object Oriented Programming Approach to Power System Visualization
22. D. Mardijino (1998) Application of Artificial Neural Networks to Short-Term Load Forecasting
23. M. Marwali (1994) Fuzzy Least Median Square Estimator in Power Systems
24. M. Yesiloglu (1993) Adaptive Control of Nonlinear Systems by Artificial Neural Networks
25. K. Labudda (1992) Fuzzy Linear Programming Approach to Power System State Estimation
26. J. Qiu (1985) A New Approach to Power Loss Minimization

TECHNICAL PUBLICATIONS

(This list represents 368 published papers including 209 journal papers and 159 conference papers and journal correspondence)

Invited Articles

1. J. Roh, M. **Shahidehpour**, and Y. Fu, "Market-based Coordination of Transmission and Generation Capacity Planning," IEEE Transaction on Power Systems, Vol. 22, No. 4, pp. 1406-1419, November 2007
2. M. **Shahidehpour**, "Impact of Electricity Markets on Electric Power Systems," 4th International Conference on Electrical and Electronics Engineering, Turkey, December 2005
3. M. **Shahidehpour**, W. Tinney, and Y. Fu, "Impact of Security on Power System Operation," IEEE Proceedings, Vol. 93, No. 11, pp. 2013 – 2025, Nov. 2005
4. M. **Shahidehpour** and R. Ferrero, "Chronological Strategies in Power Systems Asset Management," IEEE Power and Energy Magazine, Vol. 3, No. 3, pp. 32 - 38 2005, May 2005
5. M. **Shahidehpour**, Y. Fu, and T. Wiedman, "Impact of Natural Gas Infrastructure on Electric Power Systems," IEEE Proceedings, Vol. 93, No. 5, pp. 1042 – 1056, May 2005
6. B. Lu and M. **Shahidehpour**, "Impact of Phase Shifters on Locational Prices," Special Issue, ASCE Journal of Energy Engineering, Vol. 131, No. 1, pp. 52-71, April 2005
7. M. **Shahidehpour**, "Cool Currents: Evolution of Superconductors in Electric Power Systems," IEEE Power and Energy Magazine, Vol. 3, No. 2, pp. 17-19, March 2005
8. M. **Shahidehpour** and Yong Fu, "Benders Decomposition," IEEE Power and Energy Magazine, Vol. 3, No. 2, pp. 20-21, March 2005
9. Y. Fu and M. **Shahidehpour**, "Profit-based Generation Resource Planning," IMA Journal of Management Mathematics, (Oxford University Press), Vol. 15, No. 4, pp. 273-289, 2004
10. T. Li and M. **Shahidehpour**, "Market Power Analysis in Electricity Markets using Supply Function Equilibrium Model," IMA Journal of Management Mathematics (Oxford University Press), Vol. 15, No. 4, pp. 339-354, 2004
11. E. Vaahedi and M. **Shahidehpour**, "Tools for Managing Restructured Energy Systems," Special Section, IEEE Transaction on Power Systems, Vol. 19, No. 4, pp. 1999-2005, Nov. 2004
12. M. **Shahidehpour**, "The Business of Power," Guest Editorial, IEEE Power and Energy Magazine, Vol. 2, No. 4, pp. 26-28, July 2004
13. M. Marwali and M. **Shahidehpour**, "Role of Fuzzy Sets in Power System State Estimation," International Journal of Emerging Electric Power Systems, Vol. 1, May 2004
14. M. **Shahidehpour**, F. Schwatz, "Don't Let the Sun Go Down on PV," IEEE Power and Energy Magazine, pp. 40-48, May 2004
15. M. **Shahidehpour**, "Investing in Expansion: The Many Issues that Cloud Electricity Planning," IEEE Power and Energy Magazine, pp. 14-18, Jan 2004
16. E. Rezanian and M. **Shahidehpour**, "Available Transfer Capacity Calculation by Interior Point," IEEE/PICA Tutorial on Applications of Interior Point Method to Power System Operation, 1999
17. M. **Shahidehpour** and H. Yamin, "Risk Management using Game Theory in Transmission Constrained Unit Commitment within a Deregulated Power Market," chapter in IEEE/PES Tutorial on Applications of Gaming Methods to Power System Operation, 1999

18. M. **Shahidehpour** and M. Marwali, "Power Transmission Network," chapter in Wiley Encyclopedia of Electrical and Electronics Engineers, 1999
19. M. **Shahidehpour** and R. Ferrero, "Electricity Supply Industry," chapter in Wiley Encyclopedia of Electrical and Electronics Engineers, 1999
20. M. **Shahidehpour** and M. Alomoush, "Decision Making in a Deregulated Power Environment Based on Fuzzy Sets," book chapter in AI Applications to Power Systems, Kluwer Publishers, 1999
21. M. **Shahidehpour** and R. Ferrero, "Fuzzy Systems Approach to Short-Term Power Purchases Considering Uncertain Prices," book chapter in Electric Power Applications of Fuzzy Systems, IEEE Press, pp. 321-338, 1998
22. M. **Shahidehpour** and VC Ramesh, "Nonlinear Programming Algorithms and Decomposition Strategies for OPF," chapter in IEEE/PES Tutorial on Optimal Power Flow, 1996
23. M. **Shahidehpour** and C. Wang, "Applications of Artificial Neural Networks in Multi-Area Generation Scheduling with Fuzzy Data," EPRI Publication TR-104219, July 1994
24. M. **Shahidehpour**, "Enhancing Traditional Power System Computing Using AI Techniques," chapter in IEEE/PES Tutorial on Knowledge-Based System Techniques with Applications to Power Systems, 1993

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26. A. Khodaei, M. **Shahidehpour**, L. Wu, and Z. Li, "Coordination of Short-Term Operation Constraints in Multi-Area Expansion Planning," IEEE Transactions on Power Systems, Vol. 27, 2012
27. A. Lotfjou, Y. Fu, and M. **Shahidehpour**, "Hybrid AC/DC Transmission Expansion Planning," IEEE Transactions on Power Delivery, Vol. 27, 2012
28. L. Abreu, M. Khodayar, M. Shahidehpour, L. Wu, "Risk-Constrained Coordination of Cascaded Hydro Units with Volatile Wind Power Generation" IEEE Transactions on Sustainable Energy, Vol. 3, 2012
29. F. Aminifar, M. Fotuhi-Firuzabad, M. **Shahidehpour**, and A. Safdarian, "Impact of WAMS Malfunction on Power System Reliability Assessment," IEEE Transactions on Smart Grid, 2012
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31. C. Sahin, M. **Shahidehpour**, and I. Erkmén "Generation Risk Assessment in Volatile Conditions with Wind, Hydro, and Natural Gas Units" Applied Energy, 2012
32. A. Khodaei and M. **Shahidehpour**, "Security-Constrained Transmission Switching with Voltage Constraints," International Journal of Electrical Power and Energy Systems, Vol. 35, No. 1, pp. 74-82, Feb. 2012
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45. A. Khodaei and M. **Shahidehpour**, Y. Fu, "Transmission Switching in Security-Constrained Unit Commitment," IEEE Transactions on Power Systems, Vol. 25, No. 4, pp. 1937-1945, Nov. 2010
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53. L. Wu and M. **Shahidehpour**, "A Hybrid Model for Price Forecasting," IEEE Transactions on Power Systems, Vol. 25, No. 3, pp. 1519-1530, Aug. 2010
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55. C. Liu, M. **Shahidehpour**, and L. Wu, "Extended Benders Decomposition for Two-Stage SCUC," IEEE Transactions on Power Systems, Vol. 25, No. 2, pp. 1192-1194, May 2010
56. S. Kamalinia and M. **Shahidehpour**, "Capacity Adequacy Calculation by Considering Locational Capacity Prices," IET Journal on Generation, Transmission & Distribution, Vol. 4, No. 3, pp. 376-385, Feb. 2010
57. A. Lotfjou and M. **Shahidehpour**, "Security-Constrained Unit Commitment with AC/DC Transmission Systems," IEEE Transactions on Power Systems, Vol. 25, No. 1, pp. 531-543, Feb. 2010
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59. Y. Fu, Z. Li, M. **Shahidehpour**, T. Zhang, and E. Litvinov, "Coordination of Midterm Outage Scheduling with Short-term Security-Constrained Unit Commitment," IEEE Transactions on Power Systems, Vol. 24, No. 4, Nov. 2009, pp. 1818-1830
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64. J. Guo, Y. Fu, Z. Li, and M. **Shahidehpour**, "Direct calculation of Line Outage Distribution Factors," IEEE Transactions on Power Systems, Vol. 24, No. 3, pp. 1633-1634, Aug. 2009
65. J. Wang, M. **Shahidehpour**, and Z. Li "Contingency-Constrained Reserve Requirements in Joint Energy and Ancillary Services Auction," IEEE Transactions on Power Systems, Vol. 24, No. 3, pp. 1457-1468, Aug. 2009
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68. J. Wang, M. **Shahidehpour**, and Z. Li "Strategic Generation Capacity Expansion Planning with Incomplete Information," IEEE Transactions on Power Systems, Vol. 24, No. 2, pp. 1002-1010, May 2009
69. C. Liu, M. **Shahidehpour**, and Z. Li "Component & Mode Models for the Short-term Scheduling of Combined-Cycle Units," IEEE Transactions on Power Systems, Vol. 24, No. 2, pp. 976-990, May 2009
70. A. Rajabi-Ghahnavieh, M. Fotuhi-Firuzabad, M. **Shahidehpour**, R. Feuillet, "Optimal Allocation of Available Transfer Capability in Operating Horizon," IEEE Transactions on Power Systems, Vol. 24, No. 2, pp. 967-975, May 2009
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72. F. Aminifar, M. Fotuhi-Firuzabad, and M. **Shahidehpour**, "Unit Commitment with Probabilistic Spinning Reserve and Interruptible Load Considerations," IEEE Transactions on Power Systems, Vol. 24, No. 1, pp. 388-397, Feb. 2009
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12. J. Park; L. Wu, J. Choi, A. El-Keib, M. **Shahidehpour**, and R. Billinton, “A Probabilistic Reliability Evaluation of a Power System including Solar/Photovoltaic Cell Generator,” in Proceedings of 2009 IEEE Power & Energy Society General Meeting, Calgary, July 2009
13. **M. Shahidehpour**, “Stochastic Security-Constrained Unit Commitment,” in Proceedings of the 2006 IEEE General Meeting, Tampa, FL, June 2007
14. J. Roh, **M. Shahidehpour**, and Y. Fu, “Security-Constrained Resource Planning in Electricity Markets,” in Proceedings of the Market Design 2007 Conference, Stockholm, June 2007
15. O. Tor and M. **Shahidehpour**, “Power Distribution Asset Management,” in Proceedings of the 2006 IEEE General Meeting, Montreal, June 2006
16. Joseph and M. **Shahidehpour**, “Battery Storage Systems in Electric Power Systems,” in Proceedings of the 2006 IEEE General Meeting, Montreal, June 2006

17. T. Ratajczak and M. **Shahidehpour**, “Emerging Technologies For Coal-Fired Generation,” in Proceedings of the 2006 IEEE General Meeting, Montreal, June 2006
18. O. Tor and M. **Shahidehpour**, “Electric Power Distribution Asset Management,” in Proceedings of the 4th International Conference on Electrical and Electronics Engineering, Bursa, Turkey, December 2005
19. M. **Shahidehpour**, “Simultaneous Energy and Transmission Auction,” in Proceedings of the 2005 IEEE General Meeting, San Francisco, CA, June 2005
20. R. Pegallapati, F. Schwartz, and M. **Shahidehpour**, “Small Hydro as Renewable Energy,” in Proceedings of the 2005 IEEE General Meeting, San Francisco, CA, June 2005
21. S. Sheth and M. **Shahidehpour**, “Tidal Energy in Electric Power Systems,” in Proceedings of the 2005 IEEE General Meeting, San Francisco, CA, June 2005
22. S. Sood, S. Kullanthasamy, and M. **Shahidehpour**, “Solar Power Transmission from Space to Earth,” in Proceedings of the 2005 IEEE General Meeting, San Francisco, CA, June 2005
23. N. Sriram and M. **Shahidehpour**, Renewable Biomass Energy,” in Proceedings of the 2005 IEEE General Meeting, San Francisco, CA, June 2005
24. O. Tor and M. **Shahidehpour**, “Restructuring in Turkey,” in Proceedings of the 2004 IEEE General Meeting, San Francisco, CA, June 2004
25. S. Sheth, and M. **Shahidehpour**, “Geothermal Energy in Power Systems,” in Proceedings of the 2004 IEEE General Meeting, Denver, CO., June 2004
26. M. Oloomi Buygi, **M. Shahidehpour**, H. Modir Shanechi, and, G. Balzer “Market based Transmission Planning under Uncertainties,” in Proceedings of 2004 IEEE PES PMAPS Conerence., Ames, Iowa, 2004
27. M. Oloomi Buygi, G. Balzer, H. Modir Shanechi, and **M. Shahidehpour**, “Market based Transmission Expansion Planning: Fuzzy Risk Assessment,” in Proceedings of 2004 IEEE PES DPRT Conference, Hong Kong, 2004
28. M. Oloomi Buygi, G. Balzer, H. Modir Shanechi, and **M. Shahidehpour**, “Market based Transmission Expansion Planning: Stakeholders’ Desires,” in Proceedings of 2004 IEEE PES DPRT Conference, Hong Kong, 2004.
29. S. Williamson, A. Emadi, and M. **Shahidehpour**, “Distributed Fuel Cell Generation in Restructured Power Systems,” in Proceedings of the 2004 IEEE General Meeting, Denver, CO., June 2004
30. S. Sood, S. Kullanthasamy, and M. **Shahidehpour**, “Power Generation at Brownfields,” in Proceedings of the 2004 IEEE General Meeting, Denver, CO., June 2004
31. A. Keyhani and M. **Shahidehpour**, “Integrated Load Management and Solar Energy Systems for a Small Home,” in Proceedings of the Power Systems Conference, Tehran, Iran, October 2003
32. S. Bekiarov and M. **Shahidehpour**, “Electricity Restructuring in Bulgaria,” in Proceedings of the 2003 IEEE General Meeting, Toronto, Canada, July 2003
33. N. Maricar and M. **Shahidehpour**, “An Object-Oriented Graphical Representation for Engineering Network Analysis in Power System,” in Proceedings of the 2003 IEEE General Meeting, Toronto, Canada, July 2003
34. A. Eybalin and M. **Shahidehpour**, “Electricity Restructuring in France,” in Proceedings of the 2003 IEEE General Meeting, Toronto, Canada, July 2003

35. R. Ferrero and M. **Shahidehpour**, "Optimal Reserve Allocation and Pricing," in Proceedings of the 2003 IEEE Summer Meeting, Toronto, Canada, July 2003
36. A. Eybalin and M. **Shahidehpour**, "Electricity Restructuring in Iberian Peninsula," in Proceedings of the 2003 IEEE General Meeting, Toronto, Canada, July 2003
37. H. Daneshi and M. **Shahidehpour**, "Application of Fuzzy Dynamic Programming and Neural Network in Generation Scheduling," in Proceedings of the 2003 IEEE Bologna Conference, Bologna, Italy, June 2003
38. M. Oloomi Buygi, H. M. Shanechi, G. Balzer and M. **Shahidehpour**, "Transmission Planning Approaches in Restructured Power Systems," in Proceedings of 2003 IEEE PES Power Tech Conference, Italy, 2003
39. M. Fakhoury, A. Al-Hersh, H. Yamin, and M. **Shahidehpour**, "GUI for Arbitrage by Strategist in the Deregulated Power Markets," in Proceedings of the 2003 LASCOPE Conference, Montreal, Canada, May 2003
40. R. Ferrero, M. **Shahidehpour** and H. Yamin, "Transmission Losses and Constraints in Restructured Power Systems," in Proceedings of the 2003 LASCOPE Conference, Montreal, Canada, May 2003
41. H. Daneshi and M. **Shahidehpour**, "Neural Network Application to Unit Commitment by Gray Code," in Proceedings of 2002 IEEE Transmission and Distribution Conference, Yokohama, Japan, Oct. 2002
42. H. Yamin, K. Al-Tallaq, and M. **Shahidehpour**, "FERC 2000," in Proceedings of LESCOPE, Halifax, Canada, July 2002
43. H. Yamin, K. Al-Tallaq, and M. **Shahidehpour**, "FERC 2000," in Proceedings of the 2002 Large Engineering Systems Conference on Power Engineering, Nova Scotia, Canada, June 2002
44. M. **Shahidehpour**, "Teaching Restructuring Courses at Illinois Institute of Technology," in Proceedings of the 2002 IEEE Summer Meeting, Chicago, IL, July 2002
45. M. **Shahidehpour**, "Distributed Resources for Transmission Congestion and Expansion Planning," in Proceedings of the 2002 IEEE Summer Meeting, Chicago, IL, July 2002
46. M. **Shahidehpour**, "Operational Reliability: Objective or Constraint," in Proceedings of the 2002 IEEE Summer Meeting, Chicago, IL, July 2002
47. A. Sedaghati, H. Shanechi, M. **Shahidehpour**, "Transmission Pricing in Restructured Power Systems," in Proceedings of 10th Iranian Conference on Electrical Engineering, Iran, May 2002
48. A. Sedaghati, H. Shanechi, and M. **Shahidehpour**, "A Novel Method for Allocation of Transmission Network Revenue Requirement in a Competitive Power Market," in Proceeding of the 10th Iranian Conference on Electrical Engineering, Iran, May 2002
49. M. **Shahidehpour**, H. Daneshi, "Market Tools in Electric Power Systems," in Proceedings of 10th International Conference on Electrical Engineering, Tehran, Iran, May 2002
50. R. Ferrero, M. **Shahidehpour**, "Generation Reserve Allocation and Pricing," in Proceedings of the IASTED Conference on Power and Energy Systems, Marina Del Rey, CA, May 2002
51. H. Daneshi, S. Afsharnia, M. **Shahidehpour**, "Applications of ANN to Power Generation Scheduling," in Proceedings of the 16th International Power Systems Conference, Tehran, Iran, Oct. 2001

52. H. Daneshi, S. Afsharnia, M. **Shahidehpour**, “Applications of Fuzzy Sets to Power Generation Scheduling,” in Proceedings of the 16th International Power Systems Conference, Tehran, Iran, Oct. 2001
53. S. Zhu, S. Shen, Y. Zhen, Q. Ai, L. Li, and M. **Shahidehpour**, “The Study of genetic Algorithm for Load Modeling,” in Proceedings of IPEC 99, Singapore, pp. 787-792, Oct. 1999
54. H. Yamin and M. **Shahidehpour**, “Competitive Energy and Ancillary Service Markets,” in Proceedings of the 31st North American Power Symposium, San Luis Obispo, CA, Oct. 1999
55. Alomoush, M., and **Shahidehpour**, M., “Impact of Wheeling Transactions on Zonal Congestion with FTR,” in Proceedings of the 1999 Large Engineering Systems Conference on Power Engineering, Nova Scotia, Canada, pp. 231-236, June 1999
56. M. Alomoush and M. **Shahidehpour**, “Exact Extension of Contingency Area using Successive Solutions and Distribution Factors,” in Proceedings of the 1999 American Power Conference, Chicago, IL, Apr. 1999
57. N. Maricar and M. **Shahidehpour**, “Visualization Approach to Power System Operation,” in Proceedings of the 1999 American Power Conference, Chicago, IL, Apr. 1999
58. H. Yamin and M. **Shahidehpour**, “Risk Management in Electricity Pricing in a Deregulated Power Market Utilizing a Probabilistic Model,” in Proceedings of the Third Electrical Engineering Conference, Mutah University, Jordan, Apr. 1999
59. M. Albaijat and M. **Shahidehpour**, “Fuzzy Applications to Power System,” in Proceedings of the Third Electrical Engineering Conference, Mutah University, Jordan, Apr. 1999
60. M. Albaijat and M. **Shahidehpour**, “Evolutionary Programming to Solve Optimal Power Flow,” in Proceedings of the 1999 American Power Conference, Chicago, IL, Apr. 1999
61. H. Yamin and M. **Shahidehpour**, “An Overview of Ancillary Services and Alternative Auction Designs in a Deregulated Environment,” in Proceedings of the 1999 American Power Conference, Chicago, IL, Apr. 1999
62. N. Maricar and M. **Shahidehpour**, “An Object Oriented Programming Approach to Power System Network Analysis Through Visualization,” in Proceedings of the Third workshop on Electro-Communication and Information, Japan, Mar. 1999
63. N. Maricar and M. **Shahidehpour**, “Digraph Method: A Graphical Representation for Engineering Network Analysis in Power Systems,” in Proceedings of the Third workshop on Electro-Communication and Information, Japan, Mar. 1999
64. H. Yamin, M. **Shahidehpour** and A. Keyhani, “Electricity Pricing Utilizing Transmission Constrained Unit Commitment and Game Theory in a Deregulated Power Marketplace,” in Proceedings of 1999 International Conference on System Sciences, Hawaii, Jan. 1999
65. H. Yamin and M. **Shahidehpour**, “Generation Scheduling in an Uncertain Environment for Deregulated Systems Based on Game Theory,” in Proceedings of the 1998 Large Engineering Systems Conference on Power Engineering, pp. 311-316, Nova Scotia, Canada, June 1998
66. M. Alomoush and M. **Shahidehpour**, “Decision in a Deregulated Power Environment Based on Fuzzy Approach,” in Proceedings of the 1998 Large Engineering Systems Conference on Power Engineering, pp. 305-310, Nova Scotia, Canada, June 1998
67. E. Rezanian and M. **Shahidehpour**, “A New Bounding Method for Contingency Analysis using Exact Generalized Real Power Distribution Factor,” in Proceedings of the 1998 Large Engineering Systems Conference on Power Engineering, pp. 236-240, Nova Scotia, Canada, June 1998

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69. J. Kavicky and M. **Shahidehpour**, "Characterizing and Modeling Subarea-Level Energy Transactions," in Proceedings of the 1998 American Power Conference, pp. 441-445, Chicago, IL, April 1998
70. H. Ma and M. **Shahidehpour**, "Transmission Constrained Unit Commitment based on Benders Decomposition," in Proceedings of the 1997 American Control Conference, pp. 104-109, Albuquerque, NM, June 1997
71. J. Kavicky and M. **Shahidehpour**, "Simplifying Generator Siting and Contractor Options," in Proceedings of the 1997 American Power Conference, pp. 120-131, Chicago, IL, April 1997
72. E. Rezaia and M. **Shahidehpour**, "A Fast Contingency Screening Method for Determination of Available Transfer Capability in Deregulated Environment," in Proceedings of the 1997 American Power Conference, pp. 104-109, Chicago, IL, April 1997
73. M. Marwali and M. **Shahidehpour**, "A Decomposition Approach to Generation Maintenance Scheduling with Network Constraints," in Proceedings of the 1997 American Power Conference, pp. 104-109, Chicago, IL, April 1997
74. E. Rezaia and M. **Shahidehpour**, "Transfer Capability of Power Systems Using an Efficient Predictor-Corrector Primal-Dual Interior Point Algorithm," in Proceedings of Conference on Energy, Electrical Power Systems, water resources and Agriculture, pp. 131-140, New York, NY, Sept. 1996
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78. N. Ong, V. Ramesh and M. **Shahidehpour**, "Parallel Approach for Probabilistic Short-Circuit Studies," in Proceedings of the 1995 American Power Conference, pp. 636-641, Chicago, IL, April 1995
79. N. Ong, C. Beck and M. **Shahidehpour**, "Analysis of Simultaneous Unbalanced Faults Using Three-Port Network Theory," in Proceedings of the 1995 American Power Conference, pp. 642-647, Chicago, IL, April 1995
80. V. Ramesh and M. **Shahidehpour**, "Scheduling Power with Infrastructure Bottlenecks," in Proceedings of NSF Workshop on Electric Power Systems Infrastructure, Pullman, WA, Oct. 1994
81. K. Abdul-Rahman, M. **Shahidehpour** and N. Deeb, "Effect of EMF on Minimum Cost Power Transmission," in Proceedings of 1994 IEEE T&D Conference, Chicago, IL, Apr. 1994
82. K. Abdul-Rahman and M. **Shahidehpour**, "Applications of Artificial Intelligence to Optimal Var Control in Electric Power Systems," in Proceedings of EPRI Conference on Applications of Expert systems in the Power Industry, Phoenix, AZ, Dec. 1993
83. C. Wang and M. **Shahidehpour**, "Optimal Generation Scheduling with Ramping Constraints," in Proceedings of the 1993 Power Industry Computer Applications (PICA) Conference, Phoenix, AZ, May 1993

84. K. Abdul-Rahman and M. **Shahidehpour**, "Application of Fuzzy Sets to Optimal Reactive Power Planning with Security Constraints," in Proceedings of the 1993 Power Industry Computer Applications (PICA) Conference, Phoenix, AZ, May 1993
85. K. Abdul-Rahman and M. **Shahidehpour**, "Optimal Reactive Power Dispatch with Fuzzy Variables," in Proceedings of 1993 IEEE International Symposium on Circuits and Systems, Chicago, IL, May 1993
86. C. Wang, M. **Shahidehpour** and R. Adapa, "Optimal Power Generation Scheduling," in Proceedings of the 1993 American Power Conference, Chicago, IL, April 1993
87. K. Labudda and M. **Shahidehpour**, "A Fuzzy Multi-Objective Approach to Power System State Estimation," in Proceedings of International Conference on Expert System Applications to Power Systems, Melbourne, Australia, Jan. 1993
88. C. Nwankpa and M. **Shahidehpour**, "Effect of Probabilistic Line Outages on Small Disturbance Stability Analysis," in Proceedings of 1992 IEEE International Conference on Systems, Man and Cybernetics, Chicago, IL, Oct. 1992
89. C. Wang and M. **Shahidehpour**, "A Fuzzy Artificial Neural Network for Multi-Area Optimal Power Generation Scheduling with Transmission Losses," in Proceedings of 1992 American Power Conference, Chicago, IL, Apr. 1992
90. C. Wang and M. **Shahidehpour**, "A Fuzzy Set Approach to Tie line Flow Computation in Optimal Power Flow Scheduling," in Proceedings of 1992 American Power Conference, pp. 1443-1450, Chicago, IL, Apr. 1992
91. C. Wang and M. **Shahidehpour**, "Multi-Area Unit Commitment with Ramp Limits," in Proceedings of 1992 American Power Conference, pp. 1075-1083, Chicago, IL, Apr. 1992
92. Z. Ouyang, M. **Shahidehpour** and R. Adapa, "A Hybrid Neural Network Dynamic Programming Algorithm for Multi-Area Generation Scheduling," in Proceedings of 1992 American Power Conference, Chicago, IL, Apr. 1992
93. S. Li, M. **Shahidehpour** and R. Adapa, "Classification of Units in Short-Term Generation Scheduling by Expert Systems," in Proceedings of 1991 EPRI Conference on Expert System Applications for the Electric Power Industry, Boston, MA, Sept. 1991
94. M. **Shahidehpour**, "A Fuzzy Set Approach to Heuristic Power Generation Scheduling with Uncertain Data," in Proceedings of 1991 NSF/EEI Workshop, Norman, OK, July 1991
95. C. Nwankpa and M. **Shahidehpour**, "Analysis of Various Random Perturbations of Transmission Lines in Power System Studies," in Proceedings of 1991 American Control Conference, Boston, MA, June 1991
96. N. Deeb and M. **Shahidehpour**, "Multi-Area Reactive Power Control Using Cross Decomposition," in Proceedings of 1991 American Control Conference, Boston, MA, June 1991
97. M. **Shahidehpour**, "Probabilistic Assessment of Hydrothermal Generation Capacity in a Less Regulated Environment," in Proceedings of NSF Workshop on the Impact of a Less Regulated Utility Environment on Power System Control and Security, Madison, WI, Apr. 1991
98. C. Wang and M. **Shahidehpour**, "Application of Neural Networks in Generation Scheduling with Fuzzy Data," in Proceedings of 1991 American Power Conference, Chicago, IL, Apr. 1991
99. C. Nwankpa and M. **Shahidehpour**, "A New Approach to the Indication of Voltage Collapse in Electric Power Systems," in Proceedings of 1990 Power Systems Computation Conference, Graz, Austria, Aug. 1990

100. C. Nwankpa and M. **Shahidehpour**, "Effect of Small Load Fluctuations on Power System Voltage Stability Studies," in Proceedings of the 1990 American Control Conference, pp. 2106-2110, San Diego, CA, May 1990
101. C. Nwankpa and M. **Shahidehpour**, "A Class of Power Network Reliability Problems Via Colored Noise Modeling," in Proceedings of the 1990 IEEE International Symposium on Circuits and Systems, pp. 164-167, New Orleans, LA, May 1990
102. Z. Ouyang and M. **Shahidehpour**, "Generation Scheduling Decision Supported by Neural Networks," in Proceedings of the 1990 EPRI Conference on Decision Support Methods for the Electric Power Industry, Cambridge, MA, May 1990
103. C. Wang and M. **Shahidehpour**, "Unit Commitment by Neural Networks," in Proceedings of 1990 American Power Conference, Vol. 52, pp. 245-250, Chicago, IL, Apr. 1990
104. M. **Shahidehpour**, "Multi-Stage Unit Commitment by Artificial Neural Networks," in Proceedings of the NSF Workshop on Artificial Neural Networks, pp. 66-70, Clemson, SC, Apr. 1990
105. Z. Ouyang and M. **Shahidehpour**, "Power Generation Scheduling Using an Expert System," in Proceedings of the Sixth IASTED Conference on Expert Systems, pp. 134-137, Los Angeles, CA, Dec. 1989
106. C. Nwankpa and M. **Shahidehpour**, "A Probabilistic Approach to Bulk Power Transmission Reliability," in Proceedings of the 1989 North American Power Symposium, pp. 88-94, Rolla, MO, Oct. 1989
107. A. Behera and M. **Shahidehpour**, "Dynamics of Power Systems in Reliability Studies," in Proceedings of 32nd Midwest Symposium on Circuits and Systems, pp. 268-272, Urbana, IL, Aug. 1989
108. M. **Shahidehpour**, "Power System Restoration-An Expert System Approach," Presented at the 1989 IEEE Power Engineering Society Summer Power Meeting, Long Beach, CA, July 1989
109. C. Nwankpa and M. **Shahidehpour**, "Inclusion of Small Random Perturbations in a Structure Preserving Model for Power System Reliability Studies," in Proceedings of the 1989 IASTED International Conference on Power, pp. 471-475, Valencia, Spain, July 1989
110. N. Deeb and M. **Shahidehpour**, "Modeling of Protection System in Composite Power Systems Reliability Evaluation," in Proceedings of the 16th International RAM Conference for the Electric Power Industry, pp. 415-421, Monterey, CA, June 1989
111. S. Shah and M. **Shahidehpour**, "A Rule Based Load Shedding Strategy in Electric Power Systems," in Proceedings of the EPRI Conference on Expert Systems in Power, Orlando, FL, June 1989
112. S. Tong and M. **Shahidehpour**, "An Innovative Approach to Generation Scheduling in Large- Scale Power Systems with Fuel Constrained Units," in Proceedings of the 1989 IEEE Power Industry Computer Applications Conference, pp. 188-196, Seattle, WA, June 1989
113. N. Deeb and M. **Shahidehpour**, "Calibration of Measurement Sets in an Electric Power System Using an Updated Broyden Method," in Proceedings of the 1989 American Power Conference, Chicago, IL, Apr. 1989
114. N. Deeb and M. **Shahidehpour**, "Economic Allocation of Reactive Power Supply in an Electric Power Network," in Proceedings of the 1989 IEEE International Symposium on Circuits and Systems, pp. 1859-1862, Portland, OR, May 1989
115. M. **Shahidehpour**, "Utilities' Concern for the Design of a Power System Security Analyzer," Presented at the 1988 Annual Meeting of the American Association for Artificial Intelligence, Minneapolis, MN, Aug. 1988

116. S. Shah and M. **Shahidehpour**, "Application of Expert System in the Design of Power System Security Analyzer," in Proceedings of the 1988 IASTED International Conference on Expert System Theory and Applications, pp. 14-18, Geneva, Switzerland, June 1988
117. J. Qiu and M. **Shahidehpour**, "Application of Singular Perturbation in Modeling Load Disturbances and Its Effect on Power Systems Reliability Evaluation," Presented at the 1988 SIAM Annual Meeting, Minneapolis, MN, May 1988
118. S. Shah and M. **Shahidehpour**, "Automated Reasoning: A New Concept in Power System Security Analysis," in Proceedings of the IEEE International Workshop on Artificial Intelligence for Industrial Applications, pp. 58-63, Hitachi City, Japan, May 1988
119. N. Abbasy and M. **Shahidehpour**, "An Overview of Power Systems Static State Estimation," in Proceedings of the 4th International Conference on Advanced Science and Technology, pp. 286-296, Chicago, IL, March 1988
120. N. Abbasy and M. **Shahidehpour**, "Power System State Estimation: A Mathematical Programming Approach," in Proceedings of the 1988 IASTED International Conference on High Tech in Power Industry, pp. 56-61, Tempe, AZ, Feb. 1988
121. S. Shah and M. **Shahidehpour**, "Application of Expert Systems to Power System Security Analysis," in Proceedings of the 49th Annual Meeting of the American Power Conference, pp. 780-788, Chicago, IL, Apr. 1987
122. G. Kraft and M. **Shahidehpour**, "Application of Artificial Intelligence to Distributed Processing in a Power System Environment," in Proceedings of the 6th Power Plant Dynamics, Control and Testing Conference, Knoxville, TN, June 1986
123. J. Banda and M. **Shahidehpour**, "Underground Distribution Surge Protection," in Proceedings of the 48th Annual Meeting of the American Power Conference, pp. 657-664, Chicago, IL, Apr. 1986
124. G. Kraft and M. **Shahidehpour**, "Recovery Techniques in a Distributed Power Environment," in Proceedings of the 1985 Power Plant Digital Control and Fault-Tolerant Microcomputers Conference, (Electric Power Research Institute), Phoenix, AZ, Sept. 1985
125. M. **Shahidehpour**, "Benefits of Interconnection in Three-Area Power Systems, in Proceedings of the 1985 Midwest Power Symposium, Houghton, MI, Oct. 1985
126. F. Samouhi and M. **Shahidehpour**, "Effect of Forced Oscillation on Transient Stability of Power Systems by Direct Method of Liapunov," in Proceedings of the 1984 Midwest Power Symposium, Philadelphia, PA, Oct. 1984
127. M. **Shahidehpour**, J. Tudor and C. Harbourt, "Multi-Area Power Reliability Evaluation," in Proceedings of the 1982 Reliability and Maintainability Symposium, pp. 132-137, Los Angeles, CA, Dec. 1982
128. M. **Shahidehpour** and J. Tudor, "Determination of LOLP and the Effect of Tie Capacity on Area Reserve Requirements," in Proceedings of the 1980 Midwest Power Symposium, Purdue University, West Lafayette, IN, Oct. 1980

PROFESSIONAL ACTIVITIES

IEEE Activities

- 2004-2006 Chairman, Transactions Committee, IEEE Technical Activities Board
- 2003-2006 Member, IEEE Fellows Committee

IEEE/PES Activities

- 2008-present Editor-in-Chief, IEEE Transactions on Smart Grid
- 2008-2012 Vice President-Publications, IEEE Power and Energy Society
- 2003-2009 IEEE/PES Power System Operations Committee (Chair, Vice-Chair, Secretary)
- 2002-2007 Chairman, IEEE/PES Prize Paper Awards Committee
- 1996-1998 Chairman of the Operation Methods Subcommittee of the IEEE/PES
- 1987-1993 Chairman of the IEEE/PES Task Force on Power System Protection Reliability

IEEE/PES Chicago Section Activities

- 1992-1993 Chairman of the Chicago Chapter of IEEE Systems, Man & Cybernetics Society
- 1992-1993 Chairman of the IEEE Region 4 Student Paper Contest
- 1992-1993 Member of the IEEE Admissions and Advancement Committee (Reviewed nominations for the IEEE Senior membership)
- 1986-1987 Seminar Chairman of the Chicago Chapter of the IEEE/PES
- 1985-1986 Program Chairman of the Chicago Chapter of the IEEE/PES
- 1985-1987 Member of the IEEE Task Forces on Bibliography and Bulk Transmission Reliability
- 1984-1989 Secretary of the IEEE/PES Subcommittee on Applications of Probability Methods
- 1983- Present Member of IEEE/PES Subcommittees on Power Systems Control, Power Systems Operation, Power System Economics, Applications of Probability Methods (Chaired / organized 50 technical sessions, presented 200 technical papers and seminars)

International Conference Activities

- 2012 General Chair, IEEE Smart Grid Technologies Conference, Washington, DC
- 2012 Member of the Technical Committee of the 2013 PowerTech Conference, France
- 2011 Co-Chair, IEEE Smart Grid Technologies Conference, California
- 2010 Member of the Technical Committee of ISGT Europe, Sweden
- 2010 Technical Program Chair, IEEE Smart Grid Technologies Conference, Maryland
- 2010 Member of the Technical Committee of PSCC'11, Greece
- 2007 Member of the Advisory Committee of the DRPT 2007, China
- 2007 Member of the Technical Committee of the ELECO 2007, Turkey
- 2006 Member of the Technical Committee of IEEE SMC, Taiwan
- 2005 Member of the Technical Committee of the ELECO 2005, Turkey
- 2005 Member of the Technical Program Committee of JIEEE05, Jordan
- 2003 Member of the Technical Program Committee of LASCOPE03, Canada
- 2003 Member of the Technical Committee of the ELECO 2003, Turkey

2003	Member of the Technical Committee of the IEEE SMC Conference
1994-2002	Member of the Technical Committee of the IEEE PICA Conference
1993-1994	Member of the Executive Committee of the IEEE T&D Conference
1991-1992	Vice-Chairman of the IEEE Systems, Man and Cybernetics Conference
1984-1991	Associate Director of the American Power Conference
1991-2000	Member of the Advisory Board of the American Power Conference

Activities at National Electrical Engineering Honor Society (HKN)

2007-2011	Chair, Distinguished Service Award Committee
1995-2000	Member of the HKN's Outstanding Professor Award Committee
1993-2000	Member of the HKN's National Board of Directors
1992-1994	President and vice-president of the IIT's Sigma Xi Society

Other Activities

2011	Member of the United Nations Commission on Microgrid Studies
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External Examiner of PhD Programs

1. Member of the PhD Board of Examiners, Indian Institute of Technology, (Kanpur, Bombay, Kharagpur), University of Waterloo, San Juan University (Argentina), National Institute of Technology-Kurukshetra, (India), University of Calgary.
2. External Reviewer, American University of Beirut Graduate Degree program in Computer and Communication Engineering
3. External Reviewer of Research Projects at the Kuwait University, University of Petroleum and Minerals in Saudi Arabia
4. External Reviewer for Promotion and Tenure Cases at
 - University of Manchester-Institute of Science and Technology
 - Yarmouk University, Jordan
 - American University of Beirut
 - University of Wisconsin
 - University of Nebraska
 - University of Missouri
 - Drexel University
 - Michigan Technological University
 - Texas A&M University
 - Southern Illinois University
 - San-Juan University, Argentina
 - Sultan Qaboos University, Oman
 - Tulane University
 - Michigan State University
 - New Mexico Tech
 - Clemson University
 - Petra University, Malaysia
 - Nanyang Technical University, Singapore
 - Mississippi State University
 - University of Oklahoma

Technical Review Activities

Technical reviewer (reviewed 800 papers) for IEEE Transactions on Power Systems, IEEE Transactions on Power Delivery, IEEE Transactions on Circuits and Systems, IEEE Transactions on Systems, Man and Cybernetics, IEE Proceedings, Journal of Optimization Theory and Applications, Canadian Electrical and Computer Engineering Journal, International Journal of Electrical Power and Energy Systems, Journal of Optimal Control Applications, Journal of Intelligence Systems Review, Kluwer Publishers, Academic Press Publishing Company, Journal of Electric Machines and Power Systems IFAC Symposium, International Conference on Systems, Man and Cybernetics, Power Industry Computer Applications Conference, International Symposium on Circuits and Systems, American Control Conference, Power System Computation Conference, Journal of Electric Power Systems Research

Technical reviewer for John Wiley, Qatar Foundation, EPRI, DOE, AFOSR, NSF and ONR (reviewed technical proposals and participated in workshops and review panels)

Technical Sessions Organized at National Meetings

5. Load Management: 1984 American Power Conference, Chicago, IL
6. Environment: 1985 American Power Conference, Chicago, IL
7. System Reliability Evaluation: 1985 IEEE/PES Summer Meeting, Vancouver, Canada
8. Transmission System Reliability: 1986 IEEE/PES Summer Meeting, Mexico City
9. Electrical Transmission: 1986 American Power Conference, Chicago, IL
10. Expert Systems in Power Systems: 1988 International Conference on Expert Systems, Switzerland
11. Production Costing: 1990 IEEE/PES Winter Meeting, Atlanta, GA
12. Power System Operations Topics: 1990 IEEE/PES Winter Meeting, Atlanta, GA
13. Real and Reactive Power Dispatch: 1991 IEEE/PES Summer Meeting, Minneapolis, MN
14. Neural Networks: 1991 American Power Conference, Chicago, IL
15. Bulk Power System Reliability: 1991 IEEE/PES Summer Meeting, San Diego, CA
16. Power Electronics Applications: 1991 North American Power Symposium, Carbondale, IL
17. Real Time Pricing and Optimal Scheduling: 1992 IEEE/PES Winter Meeting, New York, NY
18. System Operations Topics: 1992 IEEE/PES Winter Meeting, New York, NY
19. Advances in Reliability Computation: 1992 IEEE/PES Winter Meeting, New York, NY
20. Power System Economic Evaluation: 1992 IEEE/PES Summer Meeting, Seattle, WA
21. Power Systems Dynamics: 1992 IEEE International Conference on SMC, Chicago, IL
22. Poster Panel Session: 1992 American Power Conference, Chicago, IL
23. Fuzzy Systems: 1993 Conference on Expert Systems Applications to Power Systems, Australia
24. Poster Panel Session: 1993 American Power Conference, Chicago, IL
25. System Operations Topics: 1993 IEEE/PES Summer Meeting, Vancouver, Canada
26. System Operations: 1994 IEEE/PES Winter Meeting, New York, NY
27. Power System Stability: 1994 American Power Conference, Chicago, IL
28. Operations Support-ANN Topics: 1994 IEEE/PES Winter Meeting, New York, NY
29. Hydro Scheduling: 1995 PICA, Salt Lake City, UT
30. Economic Generation Dispatch: 1996 IEEE/PES Summer Meeting, Denver, CO
31. Risk Management in Deregulated Systems: 1996 IEEE/PES Summer Meeting, Denver, CO
32. Unit Commitment: 1997 PICA, Columbus, Ohio
33. State Estimation: 1998 Large Engineering Systems Conference, Halifax, Canada

34. Operation Methods: 1999 IEEE/PES Winter Meeting, New York, NY
35. Hydro Applications: 1999 PICA, Santa Clara, CA
36. Analytical Methods: 1999 PICA, Santa Clara, CA
37. Tools for Restructured Power Systems: 2003 IEEE/PES Annual Meeting, Toronto, Canada
38. Power Market Operations: 2010 IEEE Smart Grid Innovation Technologies, Gaithersburg, MD
39. Storage: 2011 Cigre Conference on Electric Power System of the Future, Bologna, Italy

PERSONAL INFORMATION

Date of birth: July 27, 1955 (Tehran, Iran)

Marital status: Married (three sons, ages 22, 21, and 16)

Home address: 225 Faial Woods Court, Naperville, IL 60565

Citizenship: United States