

Kazem Mazlumi's Curriculum Vitae

Personal Information

First name: Kazem

Last name: Mazlumi

Place of birth: Tehran

Age: 37

Postal address: Department of Electrical Engineering, Faculty of Engineering, University of Zanjan, University Boulevard, 45371-38791, Zanjan, Iran.

Homepage: http://www.znu.ac.ir/members/Mazlumi_Kazem.html

Email: kmazlumi@znu.ac.ir , kmazlumi@aut.ac.ir , kmazlumi@yahoo.com , kmazlumi@gmail.com

Phone: +98 24 33054067 (work), +98 930 3317887 (cell), +98 24 33052762 (Fax)

Academic Records

- Ph.D. in Electrical Engineering, AmirKabir University of Technology, Tehran, Iran, 2009.
- M.S. in Electrical Engineering, Sharif University of Technology, Tehran, Iran, 2002.
- B.S. in Electrical Engineering, AmirKabir University of Technology, Tehran, Iran, 2000.

Professional Records

- Assistant Professor, University of Zanjan, Zanjan, Iran, since March 2009.
- Head of Electrical Engineering Department, University of Zanjan, Zanjan, Iran, since April 2014.
- Vice-chair of Electrical Engineering Department, University of Zanjan, Zanjan, Iran, since October 2011-April 2014.
- Project Manager working on Investigation of possible methods for reduction of the internal electric energy consumption of the Yazd combined cycle power plant and suggestion of feasible technical and economical approaches, Yazd Regional Electric Company, Yazd, Iran, since March 2012.
- Lecturer on High Voltage Substation Design, Power and Water University of Technology, Zanjan, Iran, 2012-2013.
- Lecturer on High Voltage Substation Design, Amirkabir University of Technology, Tehran, Iran, 2010.
- Research Engineer working on Iran Dispatching Process Preparation, Amirkabir University of Technology, Tehran, Iran, 2010-2011.
- Research Engineer working on Optimal Locating of Protection Devices in Karaj Distribution Network, Amirkabir University of Technology, Tehran, Iran, 2010-2011.
- Research Engineer working on Optimal Loss Reduction in Kerman (Sirjan) Distribution Network, Amirkabir University of Technology, Tehran, Iran, 2009-2010.
- Research Engineer working on Loss Reduction in Zanjan Transmission and Sub-Transmission Network, Amirkabir University of Technology, Tehran, Iran, 2007-2009.
- Lecturer, University of Zanjan, Zanjan, Iran, 2003-2009.
- Power System Protection Lab. Instructor, Amirkabir University of Technology, Tehran, Iran, 2007-2008.
- Research Engineer working on Power System Protection, Iran Grid Management Company (IGMC), 2007.
- Advisor Engineer, Zanjan Regional Electric Company, Zanjan, Iran, 2006-2007.
- Advisor Engineer working on power quality, Moshanir Company, Tehran, Iran, 2005-2007.

- Research Engineer working on Setting and Coordination of Tehran Transmission Network Relays and Analyzing Power Swing, AmirKabir University of Technology, Tehran, Iran, 2005-2007.
- Instructor, Sadra Institute of Higher Education, Tehran, Iran, 2005.
- Teaching Assistant, AmirKabir University of Technology, Tehran, Iran, 2005-2006.
- Research Engineer working on Types of High Voltage Dividers, Niroo Research Institute, Tehran, Iran, 2003-2004.
- Research Engineer working on Fault Indicators in 20 kV Distribution Systems, Niroo Research Institute, Tehran, Iran, 2001-2003.
- Designer of electronic circuits, RasekhAfzar Company, Tehran, Iran, 1998-2000.
- Designer of electronic circuits, Etrat Foundation, Tehran, Iran, 1998.

Scientific Societies Membership

- Member of the Power & Energy Society (PES-IEEE) since 2012.
- Member of the Institute of Electrical and Electronics Engineers (IEEE) since 2011.
- Member of Scientific Committee of the 18th Iranian Conference on Electrical Engineering (ICEE 2010).
- Member of Scientific Committee of the 19th Iranian Conference on Electrical Engineering (ICEE 2011).
- Member of Scientific Committee of the 5th Power Systems Protection & Control Conference (PSPC 2011).

Computer Skills

- Plenty of experience in:
 - Mathematical Packages: MATLAB, Mathematica, SPSS, Lingo, and GAMS.
 - Programming languages: C, Pascal, Basic, and VBasic.
 - Power engineering software: PScad, EMTP-rv, ATP, Etap, DigSILENT (DPL programming), and MATLAB SIMULINK.
 - Electronics software: OrCad, Protel, and PSpice.

Research Interests

- Power System Protection
- Smart Power Grids
- Power System Reliability
- Power Quality and Monitoring
- Micro grids
- Power System Analysis

Certificates

- Electrical Project in Brief, Total Co. and AmirKabir University of Technology, 2-3 December 2003.

Graduate Thesis Supervision

- 50 B.Sc. theses
- 19 M.S. theses
- 1 Ph.D. thesis

Courses Taught

- Advanced Power System Protection

- Transients in Power Systems
- Power System Analysis (I , II)
- Power System Protection
- High Voltage Substation Design
- Power System Protection Lab.
- Power System Analysis Lab.

Publications

Journal Papers

- F. Hojjati Parast, **K. Mazlumi**, A. Amiri, “Overcurrent Relays Coordination and Proposing an Adaptive Method of Coordination of Relays Considering of Network Changes,” International Journal on Technical and Physical Problems of Engineering (IJTPE), Volume 6, Number 1, Pages 198-203, March 2014.
- P. Ebrahimi Fard Zanjan, **K. Mazlumi**, F. Merrikh Bayat, “Optimal Protection Coordination for Micro Grids with Grid Connected and Islanded Capability,” International Journal on Technical and Physical Problems of Engineering (IJTPE), Volume 6, Number 1, Pages 204-209, March 2014.
- S. H. Mousavi Motlagh, **K. Mazlumi**, “Optimal Overcurrent Relay Coordination Using Optimized Objective Function,” ISRN Power Engineering Journal, Volume 2014, Pages 1-10, April 2014.
- M. Pakdel, **K. Mazlumi**, “A Novel Approach to Reliability Analysis Using Petri Nets and Ladder Logic Diagrams,” International Journal of Scientific Engineering and Technology Volume 3, Issue 3, Pages 227 – 230, March 2014.
- M. Pakdel, **K. Mazlumi**, “Load Shedding Transient Stability Analysis of a Power System Using ETAP and EMTP,” International Journal of Emerging Technology & Research (IJETR), Volume 1, Issue 2, Pages 1 -5, February 2014.
- P. Farhang, **K. Mazlumi**, “Low Frequency Power System Oscillation Damping Using HBA Based Coordinated Design of IPFC and PSS Output Feedback Controllers,” Transactions of the Institute of Measurement and Control, Volume 36, Issue 2, Pages 184–195, April 2014.
- H. Hashemi Dezaki, H. Askarian Abyaneh, M. Garmrudi, H. Mahdinia, **K. Mazlumi**, “A Novel Approach Based on Reliability Sensitivity Analysis to Allocate the Protective Devices,” Turkish Journal of Electrical Engineering & Computer Science, Volume 22, Issue 2, Pages 315–326, 2014.
- **K. Mazlumi**, M. Azari, “Robust Evolutionary Approach to Mitigate Low Frequency Oscillation in a Multi-machine Environment,” International Journal on Electrical and Power Engineering, Volume 4, Issue 3, Pages 25-18, 2013.
- M. Gilvanejad, H. Askarian Abyaneh, **K. Mazlumi**, “A Three-Level Temperature Curve for Power Cables Aging Failure Rate Estimation Incorporating Load Cycling,” European Transactions on Electrical Power (ETEP), Volume 23, Issue 6, Pages 853 – 866, 2013.
- V. Farahani, S. H. H. Sadeghi, H. Askarian Abyaneh, S. M. Mousavi Agah, **K. Mazlumi**, “Energy Loss Reduction by Conductor Replacement and Capacitor Placement in Distribution Systems,” IEEE Transactions on Power Systems, Volume 28, Number 3, Pages 2077-2085, August 2013.
- M. Gilvanejad, H. Askarian Abyaneh, **K. Mazlumi**, “Estimation of the Overload-related Outages in Distribution Networks Considering the Random Nature of the Electrical loads,” IET Generation, Transmission & Distribution, Volume 7, Number 8, Pages 855-865, August 2013.
- M. Gilvanejad, H. Askarian Abyaneh, **K. Mazlumi**, “Estimation of Cold Load Pickup Occurrence Rate in Distribution Systems,” IEEE Transactions on Power Delivery, Volume 28, Number 2, Pages 1138-1147, April 2013.

- **K. Mazlumi**, M. Darabian, M. Azari, “Adaptive Fuzzy Synergetic PSS Design to Damp Power System Oscillations,” *Journal of Operation and Automation in Power Engineering (JOAPE)*, Volume 1, Issue 1, Pages 43-53, 2013.
- **K. Mazlumi**, M. Sabouri, M. Azari, H. Abedi, “Proper Designing of Passive LCL-filters via Imperialist Competitive Algorithm,” *International Journal on Technical and Physical Problems of Engineering (IJTPE)*, Volume 5, Issue 14, Pages 24-29, March 2013.
- **K. Mazlumi**, M. Azari, S. Beheshti, “Optimal Multistage Scheduling of PMU Placement for Power System Observability,” *International Journal on Technical and Physical Problems of Engineering (IJTPE)*, Volume 4, Number 4, Pages 119 – 124, December 2012.
- M. Gilvanejad, H. Askarian Abyaneh, **K. Mazlumi**, “Fuse Cutout Allocation in Radial Distribution System Considering the Effect of Hidden Failures,” *International Journal of Electrical Power & Energy Systems (IJEPES)*, Volume 42, Pages 575 – 582, November 2012.
- H. Hashemi Dezaki, H. Askarian Abyaneh, **K. Mazlumi**, “Efficiency and Reliability Improvement of Distribution Systems Using Multi-objective Optimization of Protective and Switching System,” *Iranian Electric Industry Journal of Quality and Productivity*, Volume 1, Issue 1, Pages 10 – 19, November 2012.
- R. Eslami, H. Askarian Abyaneh, E. Azad Farsani, **K. Mazlumi**, “An Improved Distribution Network Reconfiguration Method for Loss Reduction Considering Stochastic Nature of Wind Turbines and Loads,” *Archive of Science*, Volume 68, Number 8, Pages 55 – 66, August 2012.
- H. Hashemi Dezaki, H. Askarian Abyaneh, A. Agheli, **K. Mazlumi**, “Optimized Switch Allocation to Improve the Restoration Energy in Distribution Systems,” *Journal of Electrical Engineering*, Volume 63, Number 1, Pages 47 – 52, 2012.
- A. H. Ghaemi, H. Askarian Abyaneh, **K. Mazlumi**, “Harmonic Indices Assessment by Wavelet Transform,” *International Journal of Electrical Power & Energy Systems (IJEPES)*, Volume 33, Issue 8, Pages 1399 – 1409, October 2011.
- **K. Mazlumi**, H. Vahedi, “Optimal Placement of PMUs in Power Systems Using Mixed Integer Non Linear Programming and Bacterial Foraging Algorithm,” *ECTI Transactions on Electrical Engineering, Electronics, and Communications*, Volume 9, Issue 1, Pages 150 – 156, February 2011.
- I. Rahimi Pordanjani, H. Askarian Abyaneh, S. H. H. Sadeghi, **K. Mazlumi**, “Risk Reduction in Special Protection Systems by Using an Online Method for Transient Instability Prediction,” *International Journal of Electrical Power & Energy Systems (IJEPES)*, Volume 32, Issue 2, Pages 156–162, February 2010.
- **K. Mazlumi**, H. Askarian Abyaneh, “Relay Coordination and Protection Failure Effects on Reliability Indices in an Interconnected Sub-transmission System,” *Electric Power Systems Research (EPSR)*, Volume 79, Issue 7, Pages 1011-1017, July 2009.
- **K. Mazlumi**, H. Askarian Abyaneh, “Overcurrent Relay Coordination Effects on Reliability Indices,” *South African Journal of Industrial Engineering*, Volume 19, Issue 2, pages: 109-123, November 2008.

Conference papers

- N. Khodabakhshi Javinani, H. Askarian Abyaneh, K. Mazlumi, “Filtering and Processing of Harmonic Signals Using Averaging Technique in Digital Relays,” *IEEE International Conference on Smart Energy Grid Engineering (SEGE’13)*, Oshawa, Canada, 28 - 30 August 2013.
- M. Gilvanejad, H. Askarian Abyaneh, K. Mazlumi, “Stochastic Modeling of Effective Parameters in Flashover Causing by Lightning and the Role of the Surge Arresters in Distribution Networks,” *Proceedings of the 8th Power Systems Protection & Control Conference (PSPC 2014)*, Tehran, Iran, 15–16 January 2014.

- M. Darabian, K. Mazlumi, S. Molaei, M. Mokhtarifard “Determine of Optimal Placement and Capacity of Distributed Generations by Uncertainty Loads to Improve the Properties of Network,” 3th Iranian Conference on Renewable Energy and Distributed Generation (ICREDG 2013), Isfahan, Iran, 10 - 11 April 2013.
- M. Ojaghi, M. Azari, K. Mazlumi, “New adaptive scheme for calculating zone-3 setting of distance relay,” IEEE International Conference on Industrial Technology (ICIT 2013), Cape Town, South Africa, 25 – 27 February 2013.
- S. Ghahremanian, K. Mazlumi, “Adaptive Distance Protection of the Parallel transmission Lines Using Neural Networks,” 7th Power Systems Protection and Control Conference (PSPC 2013), Tehran, Iran, 1-2 January 2013.
- M. Jafarnejad, K. Mazlumi, “A Novel Algorithm to Retrieve the Distorted Secondary Current of CT in the Case of Saturation,” 7th Power Systems Protection and Control Conference (PSPC 2013), Tehran, Iran, 1-2 January 2013.
- M. Garmrudi, H. Hashemi Dezaki, H. Askarian Abyaneh, K. Mazlumi, “Load Shedding in Distribution Networks in the Presence of the DGs Considering the Load Curves,” 17th Electric Power Distribution Conference (EPDC 2012), Tehran, Iran, 1 – 2 May 2012.
- M. Gilvanejad, H. Askarian Abyaneh, K. Mazlumi, R. Hasani, “The Effect of the Simultaneous Starting of the Induction Motors on Fuse Cut-outs in Industrial Networks,” 17th Electric Power Distribution Conference (EPDC 2012), Tehran, Iran, 1 – 2 May 2012.
- A. Sardari, K. Mazlumi, A. Jalilvand, “DG Placement Based on the Radial Load Flow for Loss Reduction,” 17th Electric Power Distribution Conference (EPDC 2012), Tehran, Iran, 1 – 2 May 2012.
- R. Eslami, H. Askarian Abyaneh, E. Azad Farsani, K. Mazlumi, “Using an Improved Method in Reconfiguration of the Smart Grids Considering Stochastic Model for the Loads,” 2nd Iranian Conference on Smart Grid (ICSG2012), Tehran, Iran, 23 – 24 May 2012.
- M. Garmrudi, H. Askarian Abyaneh, S. H. Fathi, K. Mazlumi, “Novel Hybrid Islanding Detection Method Using the Rate of Change of the Voltage and Capacitor Banks Taps,” Proceedings of the 6th Power Systems Protection & Control Conference (PSPC 2012), Tehran, Iran, 3 – 4 January 2012.
- M. Garmrudi, H. Askarian Abyaneh, S. H. Fathi, K. Mazlumi, A. Fereidouni, “Load Model Effects on Islanding Detection in Voltage and Frequency Relays,” 3rd Conference on Thermal Power Plants, Tehran, Iran, 18 – 19 October 2011.
- M. Mardani, A. Jalilvand, K. Mazlumi, “Analysis of Voltage Flicker due to Fixed Speed Wind Turbines,” 26th International Power System Conference (PSC 2011), Tehran, Iran, 31 October – 2 November 2011.
- Book Chapter, The first chapter entitled Power Quality Monitoring, Power Quality – Monitoring, Analysis and Enhancement, Edited by A. F. Zobaa, M. M. Canteli, R. Bansal, ISBN 978-953-307-330-9, InTech, Rijeka, Croatia, September 2011.
- H. Hashemi Dezaki, H. Askarian Abyaneh, M. Zanganeh, K. Mazlumi, “Protective and Switching Devices Allocation According to Total Cost Minimization by Genetic Algorithm in Distribution Systems,” 7th International Conference on Electrical and Electronics Engineering (Eleco’11), Bursa, Turkey, 1 - 4 December 2011.
- M. R. Javadi, K. Mazlumi, A. Jalilvand, “Application of GA, PSO and ABC in Optimal Design of a Stand-Alone Hybrid System for North-West of Iran,” 7th International Conference on Electrical and Electronics Engineering (Eleco’11), Bursa, Turkey, 1 - 4 December 2011.
- M. Gilvanejad, H. Askarian Abyaneh, K. Mazlumi, “Estimation of Cable Maximum Operational Temperature Based on ANN Approach,” 7th International Conference on Electrical and Electronics Engineering (Eleco’11), Bursa, Turkey, 1 - 4 December 2011.
- P. Farhang, K. Mazlumi, J. Gholinezhad, “Design of Output Feedback SSSC and PSS Controllers to Enhance the Stability of Power System Using PSO,” 7th International

- Conference on Electrical and Electronics Engineering (Eleco'11), Bursa, Turkey, 1 - 4 December 2011.
- V. Rashtchi, K. Mazlumi, A. Sardari, "Optimum Placement of Distributed Generators in Distribution Networks to improve Reliability Based on Frog Algorithm," 19th Iranian Conference on Electrical Engineering (ICEE2011), Tehran, Iran, 17-19 May 2011.
 - J. Gholinezhad, K. Mazlumi, P. Farhang, "Overcurrent relay coordination using MINLP technique," 19th Iranian Conference on Electrical Engineering (ICEE2011), Tehran, Iran, 17-19 May 2011.
 - M. Mardani, K. Mazlumi, A. Jalilvand, "Measurement of Multiple Flickers Voltage Signal Parameters," 19th Iranian Conference on Electrical Engineering (ICEE2011), Tehran, Iran, 17-19 May 2011.
 - M. Garmrudi, H. Askarian Abyaneh, K. Mazlumi, A. Fereyduni, "A novel hybrid method for anti-islanding protection using frequency relays and real power shift," 25th International Power System Conference (PSC2010), Tehran, Iran, 8 – 10 November 2010.
 - H. Hashemi Dezaki, H. Askarian Abyaneh, A. Agheli, K. Mazlumi, "Sensitivity analysis of the distribution protection systems in the case of failure or rejection of protective devices," 25th International Power System Conference (PSC2010), Tehran, Iran, 8 – 10 November 2010.
 - H. Hashemi Dezaki, H. Askarian Abyaneh, Y. Kabiri, H. A. Fakhrabadi, K. Mazlumi, "Proposing a flexible protection devices planning in distribution systems using genetic algorithm," 25th International Power System Conference (PSC2010), Tehran, Iran, 8 – 10 November 2010.
 - H. Mohammadi, K. Mazlumi, "Coordination of the Distance Relays in Multi-Parallel Lines," Proceedings of the 5th Power Systems Protection & Control Conference (PSPC 2011), Tehran, Iran, 11-12 January 2011.
 - H. Hashemi Dezaki, H. Askarian Abyaneh, K. Mazlumi, "Optimized Protective Devices Allocation Based on a hybrid Objective Function Using Genetic Algorithm," Proceedings of the 5th Power Systems Protection & Control Conference (PSPC 2011), Tehran, Iran, 11-12 January 2011.
 - H. Hashemi Dezaki, H. Askarian Abyaneh, Y. Kabiri Renani, H. Nafisi, K. Mazlumi, H. Akbarfakhrabadi, "Optimized Protective Devices Allocation in Electric Power Distribution Systems Based on the Current Conditions of the Devices," IEEE International Conference on Power and Energy (PECon 2010), Kuala Lumpur, Malaysia, 29 November – 1 December, 2010.
 - V. Farahani, S. H. H. Sadeghi, H. Hosseinian, K. Mazlumi, H. Askarian Abyaneh, "Maximum Loss Reduction by an Improved Reconfiguration Method and Capacitor Placement," IEEE International Conference on Power and Energy (PECon 2010), Kuala Lumpur, Malaysia, 29 November – 1 December, 2010.
 - Y. Pirhayati, K. Mazlumi, "An Intelligent Binary Particle Swarm Optimization for Unit Commitment Problem," IEEE International Conference on Power and Energy (PECon 2010), Kuala Lumpur, Malaysia, 29 November – 1 December, 2010.
 - M. R. Safari Tirtashi, K. Mazlumi, A. Rohani, "TCPS Controller Design Using Fuzzy Logic Controller for Power System Stability Enhancement," IEEE International Conference on Power and Energy (PECon 2010), Kuala Lumpur, Malaysia, 29 November – 1 December, 2010.
 - H. Hashemi, H. Askarian, A. Agheili, S. H. Hosseinian, K. Mazlumi, H. Nafisi, "Optimized investment to decrease the failure rate of distribution lines in order to improve SAIFI," The 4th International Power Engineering and Optimization Conference 2010 (PEOCO2010), Shah Alam, Malaysia, 23 - 24 June 2010.
 - V. Farahani, S. H. H. Sadeghi, H. Askarian, K. Mazlumi, "An Improved Reconfiguration Method for Maximum Loss Reduction Using Discrete Genetic Algorithm," The 4th

International Power Engineering and Optimization Conference 2010 (PEOCO2010), Shah Alam, Malaysia, 23 - 24 June 2010.

- K. Mazlumi, H. Vahedi, S. M. Ezzati, "Optimal Placement of PMUs in Power Systems Using Heuristic Algorithms and Mixed Integer Non Linear Programming Methods," The 2010 International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2010), Chiang Mai, Thailand, 19 – 21 May 2010.
- MR. Safari, K. Mazlumi, M. Sadeghi, "TCPS Controller Design Using PSO and Chaos Algorithm to Damping the Power System Oscillations," The 2010 International Conference on Electrical Engineering/Electronics, Computer, Telecommunications and Information Technology (ECTI-CON 2010), Chiang Mai, Thailand, 19 – 21 May 2010.
- A. Rohani, K. Mazlumi, H. Kord, "Modeling of a Hybrid Power System for Economic Analysis and Environmental Impact in HOMER," 18th Iranian Conference on Electrical Engineering (ICEE 2010), Isfahan, Iran, 11 – 13 May 2010.
- K. Mazlumi, H. Vahedi, "Optimal Placement of PMUs in Power Systems Based on Bacterial Foraging Algorithm," 18th Iranian Conference on Electrical Engineering (ICEE 2010), Isfahan, Iran, 11 – 13 May 2010.
- V. Farahani, H. Askarian Abyaneh, K. Mazlumi, A. Sabzevari, Naderi, Mahdavinia, Yavar talab, "Load Estimation Effects on Determining the Appurtenance of Losses in 20 kV Distribution Networks," 24th International Power System Conference (PSC 2009), Tehran, Iran, 15 – 18 November 2009.
- M. Gilvanezhad, H. Askarian Abyaneh, K. Mazlumi, S. M. Mousavi, "Determining time of life of the network components based on ENS incorporating the ageing effect," 24th International Power System Conference (PSC 2009), Tehran, Iran, 15 – 18 November 2009.
- H. Hashemi Dezaki, H. Askarian Abyaneh, S. H. Hosseinian, K. Mazlumi, "Optimal Placement of Switches and Protective Devices in Electric Power Distribution Systems According to ENS," 24th International Power System Conference (PSC 2009), Tehran, Iran, 15 – 18 November 2009.
- H. Hashemi Dezaki, A. Agheli, H. Askarian Abyaneh, S. H. Hosseinian, K. Mazlumi, "Market Clearing Price Estimation in Competitive Power Market Including Support the Renewable Energy Supplier," 24th International Power System Conference (PSC 2009), Tehran, Iran, 15 – 18 November 2009.
- K. Mazlumi, H. Askarian Abyaneh, "Incorporating Relay Coordination in the Reliability Evaluations," Proceedings of the 3rd Power Systems Protection & Control Conference (PSPC 2009), Tehran, Iran, 13-14 January 2009.
- V. Marvasti, H. Askarian Abyaneh, K. Mazlumi, "Maximum Loss Reduction Applying Combination of Optimal Conductor Selection and Capacitor Placement in Distribution Systems with Nonlinear Loads," Proceedings of the 43rd International Universities Power Engineering Conference (IEEE Upec 2008), Pavoda, Italy, 1 – 4 September 2008.
- H. Askarian Abyaneh, V. Marvasti, S. H. H. Sadeghi, K. Mazlumi, "Maximum Loss Reduction Applying Combination of Optimal Conductor Selection and Capacitor Placement in Distribution Systems," Proceedings of the International Conference on Electrical Engineering (ICEE 2008), Okinawa, Japan, 6 – 10 July 2008.
- V. Marvasti, H. Askarian Abyaneh, K. Mazlumi, "Optimal Capacitor Placement by Considering Non-linear Loads for Loss Reduction Using PSO Optimization Method," Proceedings of 16th Iranian Conference on Electrical Engineering (ICEE 2008), Tehran, Iran, May 2008.
- V. Marvasti, H. Askarian Abyaneh, K. Mazlumi, "Loss Reduction by selecting the optimal conductor and capacitor placement by considering Harmonic Effects," Proceedings of 13th Electric Power Distribution Conference (EPDC 2008), Tehran, Iran, May 2008.

- N. Moadabi, S. H. H. Sadeghi, H. Askarian Abyaneh, K. Mazlumi, "A Lookup Method for Power System Flicker Source Detection Using Direction of Propagation," Proceedings of the 13th IEEE International Conference on Harmonics and Quality of Power (IEEE ICHQP 2008), Wollongong, New South Wales, Australia, 28 September - 01 October 2008.
- S. S. Geramian, H. Askarian Abyaneh, K. Mazlumi, "Determination of Optimal PMU Placement for Fault Location Using Genetic Algorithm," Proceedings of the 13th IEEE International Conference on Harmonics and Quality of Power (IEEE ICHQP 2008), Wollongong, New South Wales, Australia, 28 September - 01 October 2008.
- I. Rahimi Pordanjani, H. Askarian Abyaneh, S. H. H. Sadeghi, K. Mazlumi, "A New Generation Rejection Scheme Base on Online Prediction of Transient Instability," Proceedings of the International Conference on Power System (ICPS 2007), Bangalore, India, 12 - 14 December 2007.
- K. Mazlumi, H. Askarian Abyaneh, S. H. H. Sadeghi, S. S. Geramian, "Determination of Optimal PMU Placement for Fault-Location Observability," Proceedings of 3rd International Conference on Electric Utility Deregulation and Restructuring and Power Technologies (IEEE DRPT 2008), Nanjing, China, 6 - 9 April 2008.
- S. S. Geramian, H. Askarian Abyaneh, S. H. H. Sadeghi, K. Mazlumi, "Fault Location Observability in Transmission Networks Using Minimum Number of PMUs," Proceedings of 2nd Power System Protection and Control Conference (PSPC 2008), Tehran, Iran, January 2008.
- A. H. Ghaemi, H. Askarian Abyaneh, K. Mazlumi, "Calculation of Harmonic Indices Based on Wavelet Transform for a Real Case Study," Proceedings of 22th International Power System Conference (PSC 2007), Tehran, Iran, November 2007.
- A. H. Ghaemi, H. Askarian Abyaneh, K. Mazlumi, "Assessment of THD Index and K Factor Based on Wavelet Analysis," Proceedings of 12th Electric Power Distribution Conference (EPDC 2007), Tehran, Iran, 14 - 15 May 2007.
- K. Mazlumi, H. Askarian Abyaneh, Y. Gerivani, I. Rahimi Pordanjani, "A New Optimal Meter Placement Method for Obtaining Transmission Systems Indices," Proceedings of Power Tech 2007 Conference, Lausanne, Switzerland, 1 - 5 July 2007.
- I. Rahimi, Pordanjani, H. Askarian Abyaneh, K. Mazlumi, Y. Gerivani, "Design of a Flexible Generator Rejection Scheme and Its Risk Assessment," Proceedings of Power Tech 2007 Conference, Lausanne, Switzerland, 1-5 July 2007.
- A. H. Ghaemi, H. Askarian Abyaneh, K. Mazlumi, "Voltage Notch Indices Determination Using Wavelet Transform," Proceedings of Power Tech 2007 Conference, Lausanne, Switzerland, 1-5 July 2007.
- H. Askarian Abyaneh, S. S. Geramian, K. Mazlumi, "Determination of Optimal Numbers and Places of Phase Measuring Monitors Using Integer Programming," Proceedings of 15th Iranian Conference on Electrical Engineering (ICEE 2007), Tehran, Iran, 15 - 17 May 2007.
- I. Rahimi, Pordanjani, H. Askarian Abyaneh, K. Mazlumi, Y. Gerivani, "Performance, Reliability and Risk Assessment of System Protection Scheme," Proceedings of 1st Power System Protection and Control Conference (PSPC 2006), Tehran, Iran, 20-21 December 2006.
- Y. Gerivani, H. Askarian Abyaneh, K. Mazlumi, "An Efficient Determination of Voltage-Sags from Optimal Monitoring," Proceedings of 19th International Conference on Electricity Distribution (CIRED 2007), Austria, Vienna, 21-24 May 2007.
- H. Askarian Abyaneh, Y. Gerivani, K. Mazlumi, "Determination of Fault Location and Bus Voltages During Voltage Sags Using Optimal Measurements," Proceedings of 21th International Power System Conference (PSC 2006), Tehran, Iran, November 2006.
- H. Askarian Abyaneh, K. Mazlumi, M. Amirdehi, E. Amiri, "Determination of Optimal Numbers and Places of Voltage-Dip Meters in Power Networks," Proceedings of 20th International Power System Conference (PSC 2005), Tehran, Iran, November 2005.

- H. Askarian Abyaneh, S. S. Taheri, K. Mazlumi, “Determination of the most Dangerous Power Swing with two Contingencies,” Proceedings of 20th International Power System Conference (PSC 2005), Tehran, Iran, November 2005.
- H. Askarian Abyaneh, K. Mazlumi, M. Amirdehi, “Designing CBEMA Curves of Single Phase and Three Phase Induction Motors,” Proceedings of 13th Iranian Conference on Electrical Engineering (ICEE 2005), Zanjan, Iran, May 2005.
- H. Askarian Abyaneh, B. Eshterayeh, K. Mazlumi, “Introducing Power Differential Method,” Proceedings of 15th International Power System Conference (PSC 2000), Tehran, Iran, November 2000.

Technical Reports

- K. Mazlumi, “Analysis and Design of Resistive and Capacitive Types of Voltage Dividers (Measuring Insulators)”, Technical Report, Niroo Research Institute, Tehran, Iran, May 2005.
- K. Mazlumi, “Analysis and Design of Fault Indicators in Distribution Networks”, Technical Report, Niroo Research Institute, Tehran, Iran, June 2002.