

RESUME

Hossein Mokhtari

Professor

**Department of Electrical Engineering, Sharif University of Technology,
Azadi St., Tehran, Iran**

**Member of the IEEE PES TF on Simulation of Facts and Custom Power
Controllers**

Personal Information:

Hossein Mokhtari

Born in 1966- Tehran/Iran

Associate Professor at Sharif University of Technology

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Education:

- 1994-1998 **Ph.D.**, University of Toronto, Electrical and Computer Engineering, CANADA
Major: Power Electronics and Power Quality – GPA: 4/4
Thesis Topic: High Speed Silicon Controlled Rectifier Static Transfer Switch (STS)
Supervisor: Prof. S.B. Dewan
Summary of work: During my Ph.D. program, I designed, analyzed, simulated and built a prototype of a medium-voltage STS. The design included fast voltage-detection and thyristor gating strategies for an STS. The performance of the designed STS was also investigated under various loading/fault conditions, and corresponding detection/transfer time curves were derived. The design was then implemented on a DSP-based controller platform with TMS320C40 as the main processor.
- 1992-1994 **M.Sc.**, University of New Brunswick, Electrical/Computer Engineering, CANADA
Major: Power Electronics, G.P.A. 4.3/4.3
Thesis Topic: A Novel Zero-Current Switching Resonant dc-dc Converter Using IGBTs
Supervisor: Dr. L. Chang
Summary of Work: My M.Sc. research topic was the design, analysis, and implementation of a prototype of a novel zero-current switching power supply. The

design offers high performance and efficiency and produces less electromagnetic interference compared to the existing methods.

1984-1989 **B.Sc.**, Tehran University, Electrical Engineering, IRAN
Major: Power – GPA: 17.27/20

Field of Interest:

Power Quality and power electronics with the application of

- railway systems
- automobile industry
- steel mill industry

Application of Power Electronics in Distribution Systems

Experience:

1. Academic member of Sharif University of Technology since 2000.
2. Post doctoral program for 2 years (1998-2000) at the department of electrical and computer engineering, University of Toronto in the following fields:
 - harmonic detection and active power filtering
 - application of wavelets in power disturbance detection
 - static/hybrid switches
3. Teaching the following courses:
 - electric machines
 - industrial electronics
 - power quality
 - electric circuits
 - power systems
4. Lab instructor for the following labs:
 - electric machines
 - electric circuits
 - power electronics
 - power quality
5. Electric power research Center (MATN) – SCADA Systems
 - Head of the interface section of the National Dispatching Projects
 - Head of Bakhtar regional power dispatching project

Completed Research/Industrial Projects:

A. Power Quality/Energy Related Works:

1. power quality analysis of more than 1500 locations from different utilities, such as Tehran Utility, Isfahan Utility, Khouzeestan Utility, Gharb Utility, ... including substations, power plants and all types industries such as automobile industry, traction systems, paper industry, still-mill industry, tire industry, cement industry, hospitals, ...
2. developing a comprehensive electro-mechanical simulation software for designing electric supply of traction systems
3. Electro-Mechanical simulation of Tehran line 1 subway system for different headways
4. Electro-Mechanical simulation of Tehran line 4 subway system for different headways
5. Electro-Mechanical simulation of Tehran line 7 subway system for different headways
6. design and installation of a 5th harmonic filter for Kerman Tire company
7. design and installation of a 600 kvar SVC of TSC type in Iran Khodro company
8. design and installation of a 1000 kvar SVC of TSC type in Pars Khodro company
9. design, simulation and implementation of a fast medium-voltage STS
10. analysis and performance of a hybrid switch (mechanical + static switch)
11. study the effect of large no. of nonlinear loads on distribution systems based on modeling of residential, office and commercial loads using measurements.
12. Optimal location of capacitor banks/detuned filters in 20kV distribution systems in harmonic polluted environments for Sistan and Balouchestan Regional Electric Company
13. Harmonic load flow studies for Khuzestan and Isfahan Regional Electric Companies transmission and sub-transmission network.
14. study of arc problems in the cooling system of Ahvaz still mill arc furnaces and proposing practical solutions for alleviating the problem.
15. harmonic study of Ahvaz still mill system, and investigating the causes of capacitor/thyristor failure of its TSC systems.
16. Determining the problem of false operation of the reactor in 230kV Moghan Substation in Azarbayjan Regional Electric Company.
17. Determination of optimal nodes for power quality measurement and fault location, Mazandaran Utility.
18. Power Quality study in 50 nodes of Mazandaran and Golestan provinces, Mazandaran Utility.

B. Power Electronic Related Works

19. design and implementation of a 40kVA inverter for Tehran Subway Company.
20. design and implementation of a 105kVA static inverter for Tehran Subway Company.
21. design and implementation of 4x40kW static inverter for Tehran Subway Company.
22. Design and implementation of 40 kW active filter with flicker reduction capability.

23. study of current-based STS thyristor control strategies and designing a voltage-based gating logic
24. study, simulation and prototype implementation of a impedance heating system
25. design and implementation of a PWM-based rectifier with energy recovery system
26. design and implementation of wavelet-based voltage detection system
27. design, simulation and implementation of control algorithms using DSP controllers and FPGA programmers
28. design and simulation of a single-phase active power filtering
29. design and implementation of a 4kW PWM rectifier with SVPWM

Awards:

1. 1995-1998 U of T fellowship, University of Toronto, CANADA
2. 1992 –1998 Higher Education Scholarship, IRAN
3. 2011 The best Technology Oriented Professor of Sharif University

Graduate Students:

Ph.D. Students:

- | | |
|--------------------|-----------|
| 1. Amin Hasanzadeh | 1382-1388 |
| 2. Mohammad Hejri | 1383-1389 |
| 3. Hossein Hojabri | 1384- |
| 4. Mohsen Hamzeh | 1387- |
| 5. Ali Moayyedi | 1388- |
| 6. Amir Khorsandi | 1389- |
| 7. Ai Hajimoradi | 1389- |

Masters Students:

- | | |
|--------------------------|-----------|
| 1. Mohammad Hejri | 1379-1381 |
| 2. Hossein Yasaman | 1379-1381 |
| 3. Rasoul. Aghatehrani | 1380-1382 |
| 4. Mohsen Rahimi | 1380-1382 |
| 5. Asghar Abedini | 1380-1382 |
| 6. Masoud Yaghoubi | 1381-1383 |
| 7. Alireza Mirjalili | 1381-1383 |
| 8. Farhad Barati | 1381-1383 |
| 9. Azam Nasri | 1382-1384 |
| 10. Ali Esmaili | 1382-1384 |
| 11. Damoun Ahmdi Khatir | 1382-1384 |
| 12. Mohammad Kazemi | 1382-1384 |
| 13. Hamidreza Tajoddin | 1383-1385 |
| 14. Mohammad Mousavi | 1383-1385 |
| 15. Ehsan Tara | 1384-1386 |
| 16. Ali Alizadeh | 1384-1386 |
| 17. Habibollah Sadeghian | 1384-1386 |
| 18. Ghazal Fallahi | 1385-1387 |
| 19. Reza Jalayer | 1385-1387 |
| 20. Amin Nasri | 1385-1387 |
| 21. Sajjad Zadkhost | 1386-1388 |
| 22. Nader Mollaie | 1386-1388 |

23. Hamidreza Rezaie	1386-1388
24. Ali Shamsnia	1387-1389
25. Meysam Ahmadi	1387-1389
26. Javad Ghorbani	1387-1389
27. Behnam Mazaheri	1388-1390
28. Amin Ghazanfari	1388-1390
29-Elham Karimi	1389-
30-Vahid Najmi	1389-
31-Mehdi Shojaie	1389-
32-Saeed Moharrami	1390-
33-Mohsen Zangeneh	1390-
34-Magid Ghasemian	1390-

Technical Papers/Published Works:

Journal Papers:

1. H. Mokhtari, S.B. Dewan, and M.R. Iravani, "Performance Evaluation of Thyristor-Based Static Transfer Switch", IEEE Trans. On Power Delivery, Vol. 15, No. 3, July 2000, pp 960-966.
2. H. Mokhtari, M. Karimi, and M.R. Iravani, "Wavelet-Based On-Line Disturbance Detection for Power Quality Application", IEEE Trans. On Power Delivery, Vol. 15, No. 4, Oct. 2000, pp 1212-1220.
3. H. Mokhtari, S.B. Dewan, and M.R. Iravani, "Benchmark Systems for Digital Computer Simulation of a Static Transfer Switch", IEEE Trans. On Power Delivery, Vol. 16, No. 4, Oct. 2001, pp 724-731.
4. H. Mokhtari, S.B. Dewan, and M.R. Iravani, "Effect of Regenerative Load on a Static Transfer Switch Performance", IEEE Trans. On Power Delivery, Vol. 16, No. 4, Oct. 2001, pp 619-624.
5. H. Mokhtari, M. Karimi, and M.R. Iravani, "Experimental Performance Evaluation of a Wavelet-Based On-Line Voltage Detection Method for Power Quality Applications", IEEE Trans. On Power Delivery, Vol. 17, No. 1, Jan. 2002, pp 161-172.
6. H. Mokhtari, S.B. Dewan, and M.R. Iravani, "Analysis of a Static Transfer Switch with respect to Transfer Time", IEEE Trans. On Power Delivery, Vol. 17, No. 1, Jan. 2002, pp 190-199.
7. S. Abazari, J. Mahdavi, and H. Mokhtari, "Transient Stability Improvement by Using Advanced Static VAR Compensators", Electric Power Components and Systems, Vol. 31, No. 4, April. 2003, pp. 321-334.
8. H. Mokhtari, M.R. Iravani, and S.B. Dewan, "Transient Behavior of Load Transformer During Sub-Cycle Bus Transfer", IEEE Trans. On Power Delivery, Vol. 18, No. 4, Oct. 2003, pp 1342-1349.

9. H. Mokhtari and M.R. Iravani, "Impact of Difference of Feeder Impedances on the Performance of Static Transfer Switch", *IEEE Trans. On Power Delivery*, Vol. 19, No. 2, April 2004, pp 679-685.
10. M. Karimi, H. Mokhtari, M.R. Iravani, and M. Sedighy, "A Signal Processing System for Extraction of Harmonics and Reactive Current of Single-phase Systems", *IEEE Trans. On Power Delivery*, Vol. 19, No. 3, July 2004, pp 979-986.
11. H. Mokhtari, A Zebardast and M. Parniani, "Analysis of a TSC Failure in a Steel Mill Industry", *Electrical Power Quality and Utilization*, Vol. 2, No. 1, 2006, pp 33-38.
12. A. Esfandiari, M. Parniani, and H. Mokhtari, "Power Quality Impacts of an Electric Arc Furnace and Its Compensation", *Journal of Electrical Engineering & Technology*, Vol. 1, No. 2, pp. 153~160, 2006.
13. A. Esfandiari, M. Parniani, H. Mokhtari, and Al. Yazdian Verjani, "Power quality improvement of an electric arc Furnace using a new universal compensating system", *Journal of Power Electronics*, Vol. 6, No.3, July 2006, pp. 195-204.
14. A. Esfandiari, M. Parniani, H. Mokhtari, and Al. Yazdian Verjani, "Power quality improvement of an electric arc furnace using passive and shunt active filters", *International Journal of Electrical Engineering*, Vol. 13, No. 2, 2006, pp. 129-136.
15. M. Rahimi, H. Mokhtari, and Gh. Zafarabadi, "A New Active Method in Damping Resonances in Active Filters", *Iran Journal of Electrical and Computer Engineering*, Vol. 7, No. 1, 2008.
16. H. Mokhtari and M.R. Iravani, "Effect of Source Phase Difference on Static Transfer Switch Performance" *IEEE Trans. On PWRD*, Vol. 22, April 2007, pp 1125-1131.
17. H.R. Mohammadi, A. Yazdian Verjani, and H. Mokhtari, "Multi-Converter Unified power Quality Conditioning System : MC-UPQC", *IEEE Trans. On PWRD*, Vol. 24, No.3, July 2009, pp. 1679-1686.
18. H.R. Mohammadi, A. Yazdian Verjani, and H. Mokhtari, "A New Method for Estimation of Power Quality Phenomena Using Adaptive Neural Networks", *Iran Journal of Electrical and Computer Engineering*, 2008.
19. H.R. Mohammadi, A. Yazdian Verjani, and H. Mokhtari, "Introducing a New Unified Power Quality Compensator with the Capability of Instantaneous Compensation on Adjacent feeders", *Iran Journal of Electrical and Computer Engineering*, 2008.

20. A. Esfandiari, A. Emadi, M. Parniani, and H. Mokhtari, "Application of the Unified Power Quality Conditioner for Mitigating Electric Arc Furnace Disturbances", *International journal of power and energy systems*, Vol. 28, No. 4, 2008.
21. M. Hejri and H. Mokhtari "Global Hybrid Modeling and Control of a Buck Converter: a Novel Concept," *Journal of International Journal of Circuit Theory and Applications*", Vol. 37, July 2009, Vol. 37, Issue 9, pp. 968-986.
22. A. Mohammadpour, H. Mokhtari, and M.R. Zolghadri, "Control of Series Resonant Converter With Robust Performance Against Load and Power Circuit Components Uncertainties", *Iranian Journal of Electrical and Electronic Engineering – IJEEE*, Vol. 4, 2009, pp. 244-252.
23. A. Hasanzadeh and H. Mokhtari, "A Simplified Droop Method Implementation in parallel UPS Inverters with proportional-resonant controller", *Iranian Journal of Science and Technology*, Vol. 33, 2009, pp163-178.
24. H. Mokhtari, S.R. Movahhed, and A. Rajabi, "A New Model For a Frequency-Dependent Non-Linear Reactor", *Electrical Power Quality and Utilization Journal*, Vol. XV, No. 1, 2009, pp. 15-18.
25. M. Hejri and H. Mokhtari "Hybrid Predictive Control of a DC-DC Boost Converter in Both Continuous and Discontinuous Current Modes of Operation," *Optimal Control Applications and Methods*, Vol. 32, Issue 3, pp 270-284, 2010.
26. A. Hasanzadeh, O.C. Onar, H. Mokhtari, and A. Khaligh "A Proportional-Resonant Controller based Wireless Control Strategy with a Reduced Number of Sensors for Parallel-Operated UPSs", *IEEE Trans. On PWRD*, Vol. 25, No.1, Jan. 2010.
27. H. Hojabri, H. Mokhtari, and L. Chang, "A Generalized Technique of Modeling, Analysis and Control of a Matrix Converter Using SVD", *IEEE Trans. On Industry Application*, Vol. 58, No.3, pp 949-959, 2011.
28. A. Hasanzadeh, C. Edrington, and H. Mokhtari, "Optimal tuning of linear controllers for power electronics/power systems applications", *Electric Power Systems Research*, Vol. 81, Issue 12, Dec. 2011.
29. A. Ghazanfari, M. Hamzeh, and H. Mokhtari, "Active Power Management of Multi-Hybrid Fuel Cell/Supercapacitor Power Conversion System in a Medium Voltage Microgrid", Accepted for publication in *IEEE Trans. On Smart Grid*.
30. M. Hamzeh, H. Mokhtari, and H. Karimi, "A New Control Strategy for a Multi-Bus MV Microgrid under Unbalanced Conditions" Accepted for publication in *IEEE Trans. On Power Systems*.

Conference Papers:

1. H. Mokhtari and L. Chang, "Control Strategies for a Novel Zero-Current Switching Resonant dc-dc Converter", Proc. Of the IEEE Canadian Conf. On Electrical and Computer Eng, 1994, Vol. 1, pp 22-25.
2. H. Mokhtari, "Performance Evaluation of Thyristor-Based Static Transfer Switch with Respect to Cross Current", Proceeding of IEEE/PES T&D Conference, 2002, pp 1326-1331.
3. H. Mokhtari and M. Hejri, "A New Three-Phase Time-Domain Model for Electric Arc Furnace Using MATLAB", Proceeding of IEEE/PES T&D Conference, Japan 2002, pp 2078-2083.
4. M. Parniani, H. Mokhtari and M. Hejri, "Effects of Dynamic Reactive Compensation in Arc Furnace Operation Characteristics and its Economic Benefits", Proceeding of IEEE/PES T&D Conference, Japan 2002, pp 1044-1049.
5. M. Karimi, H. Mokhtari, and M.R. Iravani, "Performance of a Fault Diagnosis Method Based on Wavelet Characterization", Proceeding of IEEE Midwest Symposium on Circuits and Systems, Aug, 2002, Oklahoma.
6. H. Mokhtari, M. Parniani, and M.R. Zolghadri, *Introduction to Electric Power Quality*, Textbook published at Sharif University of Technology, Dec. 2002.
7. H. Mokhtari and H. Yasaman, "Study the Effect of Mechanical Switch Model on the Performance of Hybrid Transfer Switches", Proceeding of 11th Iranian Conference on Electrical Engineering, Tabriz, Iran 2002, pp 396-403.
8. H. Mokhtari and H. Yasaman, "Performance Evaluation of Hybrid Transfer Switches in Grounded and Ungrounded Medium-Voltage Electrical Systems", Proceeding of IEEE/CIGRE International Symposium on Quality and Security of Electric Power Delivery Systems, Montreal, Oct 2003.
9. H. Mokhtari and M. Rahimi, "Design of a New Voltage Controller for a Shunt Active Filter and Optimization of DC link Capacitor", Proceeding of 1^{8th} International Power System Conference, Iran, Oct. 2003, pp 99-108.
10. H. Mokhtari and H. Yasaman, "A Fast Composite Fault Detection Method for Static Transfer Switches", Proceeding of 18th International Power System Conference, Iran, Oct. 2003, pp 9-16.
11. H. Mokhtari and A. Abedini, "A New Algorithm for Voltage Sag Detection", Proceeding of 18th International Power System Conference, Iran, Oct. 2003, pp 123-131.

12. H. Mokhtari and M. Rahimi, "Extention of Space-Vector Modulation Technique to Three-Phase Four-Wire Systems and its Modeling and Application to Three-Phase Four-Wire Active Filters", 12th Iranian Conf. on Electrical Engineering, Mashad, Iran, 2004.
13. H. Mokhtari and A. Abedini, "A New Algorithm for Harmonic Detection", 12th Iranian Conf. on Electrical Engineering, Mashad, Iran, 2004.
14. A. Esfandiari, M. Parniani, and H. Mokhtari, "A New Control Strategy of Shunt Active Filters for Power Quality Improvement of Highly and Randomly Varying Loads" Proceeding of IEEE International Symposium on Industrail Electronics, 2004, Ajaccio, France.
15. A. Esfandiari, M. Parniani, and H. Mokhtari, "Shunt Active Filter Control based on Instantaneous Power Theory on a Rotating Reference Frame in 3-Phase Systems", Proceeding of 11th International Power Electronics and Motion Control Conference, 2004, Latvia.
16. A. Esfandiari, M. Parniani, and H. Mokhtari, "Power Quality Improvement in Three-Phase Four-Wire Systems Using Shunt Active Filters", Proceeding of CIEP 2004 Conference, Celaya, México, 17-22 October.
17. A. Esfandiari, M. Parniani, and H. Mokhtari, "Mitigation of Electric Arc Furnace Disturbances Using the Unified Power Quality Conditioner", Proceeding of IECON 2004 Conference, Busan, KoreaNov. 2-6, 2004.
18. H. Mokhtari and A. Mahbubi, "Power Quality Analysis of Tehran Utility Distribution Feeders", 4th International Conf. on Power Quality and Energy Conversion, 2004, Thailand.
19. H. Mokhtari and R. Aghatehrani, "A New Wavelet-Based Method for Detection of High-Impedance Faults", Proceeding of FPS2005, Amsterdam, Netherlands, 16-18 Nov. 2005.
20. A. Zebardast and H. Mokhtari, "Harmonic Filter Design Consideration for Tire-Rubber Factory", Proceeding of the Fifth Int. Conf. on Power and Energy Systems, Benalmadena, Spain, June 15-17, pp. 380-383.
21. H. Mokhtari, and F. Barati, " A New Scheme for a Mechanical Load Position Control Driven by a Permanent Magnet DC Motor and a Nonzero Backlash Gearbox", IEEE ISIE 2006, July 9-12, 2006, Montréal, Québec, Canada, pp. 2052-2057.

22. M. Karimi Ghartemani, and H. Mokhtari” Extraction of Harmonics and Reactive Current for Power Quality Enhancement”, IEEE ISIE 2006, July 9-12, 2006, Montréal, Québec, Canada, pp. 1673-1678.
23. M. Mojiri, M. Karimi Ghartemani, and H. Mokhtari” A Technique for Extracting Harmonics of Time-Varying Nature”, IEEE ISIE 2006, July 9-12, 2006, Montréal, Québec, Canada, pp. 1990-1995.
24. A. Zebardast and H. Mokhtari, “Effect of Low-Voltage Thyristor-Switch Capacitor Banks on Electrical “, Proceeding of PowerCon 2006, Oct. 22-26, pp. 1-5.
25. H. Mokhtari, "Power Quality Analysis of a Sugar Industry", 5^h International Conf. on Power Quality and Energy Conversion, 2005 Thailand.
26. A. Zebardsat and H. Mokhtari, ”Harmonic Filter Design Consideration for Tire-Rubber factory”, Proceeding of Int. Conf. on Power and energy Systems”, Spain, 2005.
27. H. Mokhtari and M. Rahimi, "Active Power Filter Control in Three-Phase Four-Wire Systems Using Space Vector Modulation", Proceeding of 2006 Int. Con. On Power Electronics, Drives and Energy Systems for Industrial Growth, Dec. 12-15, 2006, New Delhi, India.
28. H. Hojabri and H. Mokhtari, "A New Power Quality Enhancement Method for Two-Phase Loads ", Proceeding of 2006 Int. Con. On Power Electronics, Drives and Energy Systems for Industrial Growth, Dec. 12-15, 2006, New Delhi, India.
29. S. Hasani, F. Donyavi, M. Masoudi, and H. Mokhtari,Power. “Power Quality Standards and their application to a Granite Factory”, Proceeding of 2006 Int. Con. On Power Electronics, Drives and Energy Systems for Industrial Growth, Dec. 12-15, 2006, New Delhi, India.
30. M. Poshtan, H. Mokhtari, and A. Esmaeili, “Power Quality Improvement in Highly Varying Loads Using Thyristor-Switched Capacitors”, 2007 Int. Conf. on Modeling, Simulation, and Applied Optimization, March 24-27, Abu Dhabi, UAE.
31. H. Mokhtari and E. Tara,” Efficiency Map of a Switched Reluctance Motor Using Finite Element Method in Vehicular Applications” Proceeding of 7th Int. Con. On power Electronics, ICPE07, Oct. 22-26 Daegu, Korea.
32. H. Mokhtari and A. Alizadeh, “A new Multi-Machine Control System Based on Direct Torque Control Algorithm” Proceeding of 7th Int. Con. On power Electronics, ICPE07, Oct. 22-26 Daegu, Korea.

33. H. Mokhtari, A. Nasri Nasrabadi and A. Nasr Esfahani, "Simulation of Tehran Subway System for Headways Below 4 min. for Non-Regenerative Trains", Proceeding of the 9th Int. Railway Conference and Exhibition, 19th and 20th of Aban 1386, Tehran, Iran (In Persian).
34. H.R. Mohammadi, A. Yazdian Verjani, H. Mokhtari, and M. Nayerpour "Fast and Accurate Frequency and Harmonic Estimation Method for On-Line Application in Power System", Proceeding of POWERENG2007 Conf., 12-14 of April 2007, Serubal, Portugal.
35. H.R. Mohammadi, A. Yazdian Verjavi, H. Mokhtari, and M. Nayeripour, "Fast and Accurate Frequency and Harmonic Estimation Method for On-line Application in Power System", Proceeding of POWERENG CON.
36. R. Jalayer and H. Mokhtari, "A Simple Three-Phase Model for Distributed (DSSC) in Newton Power Flow" Proceeding of APPEEC2009, March 28-31, 2009, Wuhan, China.
37. G. Fallahi and H. Mokhtari, "Performance Improvement of Parallel Active Power Filters Using Droop Control Method", Proceeding of APPEEC2009, March 28-31, 2009, Wuhan, China.
38. H. Mokhtari, A. Nasri Nasrabadi and A. Nasr Esfahani, "Determination of Optimal capacity of Line 7 Tehran Subway System Using TRSIM Software," Proceeding of ICRARE, Sept. 2009, Tehran, Iran (In Persian).
39. A. Hasanzadeh, S.M.R. Sardryeh, B. Maghsoudlu, and H. Mokhtari," A High Power High Voltage Short Pulse Width Pulse Generator Using Direct Drive Method in Application of Modulating-Cathode Tubes Drive", Proceeding of ISIE, July 5-8 2009, Seoul, S. Korea.
40. S. Zadkhast, and H. Mokhtari," A New Nonlinear Controller for Active power Filters", Proceeding of EPECS, 2009, Sharje, UAE.
41. H.R. Nazari Pouya and H. Mokhtari," Improved Optimal control Technigue for Control of Parallel Three-phase Inverters", Proceeding of EPECS, 2009, Sharje, UAE.
42. H.R. Nazari Pouya and H. Mokhtari," Control of paraller three-phase Inverters Using optimal control and SVPWM Technique", Proceeding of ISIE, July 5-8, 2009, Seoul, S. Korea.
43. M. Hamzeh, and H. Mokhtari," Power Quality Comparison of Active Islanding Detection Methods in a single phase PV Grid Connected Inverter", Proceeding of ISIE, July 5-8, 2009, Seoul, S. Korea.
44. A. Nasri, M. Farrashbashi, and H. Mokhtari," Comparison and Investigation on Regenegative

Energy Resulted from the Braking Action in Subway Systems with the Help of Electrical and Dynamic Simulation”, Proc. Of ICEE2009, Tehran, Iran. (In Persian)

45. A. Nasri, H. Mokhtari, and A. Nasr Esfahani, “Determination of Optimal Location of Traction Stations in Tehran Line 7 Subway System Using TRSIM Software”, Proc. Of ICRARE2009, Tehran, Iran.(In Persian)
46. A. Nasri, H. Mokhtari, and M. Farashbashi, “Comparison and Study of the Regenerative Energy of the Braking System in a Subway System Electro-Mechanical Simulation of the Train System”. Proceeding of the ICEE2009. April 12-14, 2009, University of Iran Science and Technology, Tehran, Iran.
47. A. Zebardast and H. Mokhtari,” Effect of High-Efficient Motors on Efficiency Improvement and Electric Energy Saving”, Proceeding of PEDES2008, Dec. 12-15, China, pp. 1-6.
48. N. Molaie and H. Mokhtari, “Classification of Wide variety range of power quality disturbances based on two dimensional wavelet transform”, Proceeding of the 1st PEDSTC2010, Tehran, Iran.
49. M. Hamzeh, H. Karimi, H. Mokhtari, and M. Popov,” An Accurate Power Sharing Method for Control of a Multi-DG Microgrid”, Proceeding of the IPST2011, Netherland.
50. A. Shamsnia, H. Hojabri, H. Mokhtari, and L. Chang, “A New Control Method of Three-Phase PMSG Wind Turbine Connected to a Single-Phase Network Through a Back-To-Back Converter”, Proceeding of the 2nd PEDSTC2011, Tehran, Iran.
51. M.R. Hajimoradi, A. Yazdian, and H.Mokhtari,” Double Stage Switch Mode AC Voltage Regulator”, Proceeding of the 2nd PEDSTC2011, Tehran, Iran.
52. M.J. Ghorbani, M. Ahafiei, H. Mokhtari, M.R. Honarmand, and M. Youhannaie,” Residential Load Modeling by Norton Equivalent Model of Harmonic Loads.”, Proceeding of Appecc2010, China.
53. M. Moghadasian, H. Mokhtari, and A. Baladi, “Power System Harmonic State Estimation using WLS and SVD; A practical Approach”, proceeding of the 14th International Conference on Harmonics and Quality of Power (ICHQP), 2010, pp. 1-7.
54. A. Hasanzadeh, C. S. Edrington, and H. Mokhtari,”A Novel LQR Based Optimal Tuning Method for IMP-Based Linear Controllers of Power Electronics/Power Systems”, proceeding of the 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC) Orlando, FL, USA, December 12-15, 2011.
55. A. Hasanzadeh, C. S. Edrington, B. Maghsoudlou, and H. Mokhtari,” Optimal LQR-based Multi-loop Linear Control Strategy for UPS Inverter Applications using Resonant Controller”,

proceeding of the 50th IEEE Conference on Decision and Control and European Control Conference (CDC-ECC) Orlando, FL, USA, December 12-15, 2011.

56. M. Ahmadi and H. Mokhtari," A New Approach to Determine Reference Current for Shunt Active Power Filters" proceeding of the 3rd conf. on Power Electronics, Drive Systems & Technologies, Tehran, Iran, 2012.
57. B. Mazaheri and H. Mokhtari," An MPC Method Based on a Hybrid Model of a Three-phase Inverter with Output LC Filter" proceeding of the 3rd conf. on Power Electronics, Drives Systems & Technologies, Tehran, Iran, 2012.
58. M.R. Hajimoradi, E. Karimi, and H. Mokhtari, "Performance Improvement of a Double Stage Switch Mode AC Voltage Regulator", proceeding of the 3rd conf. on Power Electronics, Drives Systems & Technologies, Tehran, Iran, 2012.
59. A. Ghazanfari, M. Hamzeh, and H. Mokhtari," Power Management Strategy for a Multi-Hybrid Fuel Cell/Energy Storage Power Generation Systems", proceeding of the 3rd conf. on Power Electronics, Drives Systems & Technologies, Tehran, Iran, 2012.