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Educations

B. Sc.	Electrical Engineering-Power, K. N. Toosi University of Technology, Tehran, IRAN, 2009.
M. Sc.	Electrical Engineering-Power, Iran University of Science and Technology, Tehran, IRAN, 2011.
Ph. D.	Electrical Engineering-Power, Iran University of Science and Technology, Tehran, IRAN, 2015.

Research Areas

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| <ul style="list-style-type: none">• Smart Grids• Micro-grids• Energy Markets | <ul style="list-style-type: none">• Renewables• Energy/Load Management• Power Quality |
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Teaching Areas

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| <ul style="list-style-type: none">• Electrical Machines I, II, III• Power System Relaying• Power Generation• Power System Analysis I | <ul style="list-style-type: none">• High Voltage Engineering• Electricity Markets• Energy Management• Power Quality |
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Publications

- [1] Navid Rezaei, Mohsen Kalanter, "Smart microgrid hierarchical frequency control ancillary service provision based on virtual inertia concept: An integrated demand response and droop controlled distributed generation framework", Energy Conversion and management, Elsevier, Vol. 92, pp. 287-301, 2015.
- [2] Navid Rezaei, Mohsen Kalantar, "Hierarchical energy and frequency security pricing in a smart microgrid: An equilibrium inspired epsilon constraint based multi-objective decision making approach", Energy Conversion and Management, Elsevier, Vol. 98, pp. 533-543, 2015.
- [3] Navid Rezaei, Mohsen Kalantar, "A novel hierarchical energy management of a renewable microgrid considering static and dynamic frequency", Journal of Renewable and Sustainable Energy, AIP, 7, 033118, pp. 1-21, 2015.
- [4] Navid Rezaei, Mohsen Kalantar, "Stochastic frequency-security constrained energy and reserve management of an inverter interfaced islanded microgrid considering demand response programs", International Journal of Electrical Power and Energy Systems, Elsevier, Vol. 69, pp. 273-286, 2015.

- [5] Navid Rezaei, Mohsen Kalantar, "Economic–environmental hierarchical frequency management of a droop-controlled islanded microgrid", *Energy Conversion and Management*, Elsevier, Vol. 88, pp. 498-515, 2014.
- [6] Amin Safari, Navid Rezaei, "Towards an extended power system stability: An optimized GCSC-based inter-area damping controller proposal", *International Journal of Electrical Power and Energy Systems*, Elsevier, Vol. 56, pp. 316-324, 2014.
- [7] Amin Safari, Navid Rezaei, "Design of multi-objective damping controller for gate-controlled series capacitor", *Sadhana (Springer)*, 39(2); 363-376; 2014.
- [8] Navid Rezaei, Mohsen Kalantar, Heidar Ali Shayanfar, Yosef Alipouri, Amin Safari, "Optimal signal selection and damping controller design for IPFC using a novel current injection model in a multi-machine power system", *International Journal of Electrical Power and Energy Systems*, Elsevier, Vol. 44(1) ,pp. 461-470, 2013.
- [9] Amin Safari, Navid Rezaei, "A Novel Current Injection Model of GCSC for Control and Damping of Power System Oscillations", *IETE Journal of Research*, 59(6); pp.768-773, 2013.
- [10] Navid Rezaei, Heidar Ali Shayanfar, Mohsen Kalantar, "Robust Low Frequency Power System Oscillation Damping Using an IPFC Based Multi-Objective Particle Swarm Optimizer", *International Review of Electrical Engineering-IREE*, Vol. 7, No. 3, pp. 4538-4547, June 2012.
- [11] Amin Safari, Navid Rezaei, "Robust design a PSO based IPFC output feedback damping controller", *Research Journal of Applied Science, Engineering and Technology*, Vol. 12, No. 1, December 2011.
- [12] Navid Rezaei, Amin Safari, "Power system stability improvement using a PSO-based coordinated design of IPFC and PSS", *American Journal of Applied Science (AJSR)*, Issue 4, No. 1, December 2011.
- [13] Navid Rezaei, Amin Safari. Heidar Ali Shayanfar, "Robust Design of Power Oscillation Damping Controller for IPFC Using Particle Swarm Optimization", *International Journal of Technical and Physical Problems in Engineering (IJTPE)*, Vol. 7, Issue. 3, June-2011.
- [14] Navid Rezaei, Amin Safari. Heidar Ali Shayanfar, "A Particle Swarm Optimizer to Design a GCSC-based Damping Controller of Power System", *International Journal of Technical and Physical Problems in Engineering (IJTPE)*, Vol. 8, Issue. 2, September 2011.
- [15] Navid Rezaei, Amin Safari, Heidar Ali Shayanfar, "An IPFC output feedback damping controller design using particle swarm optimization", *i-manager's Journal on Electronics Engineering (JELE)*, Sep-Nov Issue, 2011.
- [16] Navid Rezaei, Mohsen Kalantar, "A novel frequency aware energy management system for a droop controlled microgrid", *5th Smart Grid Conference*, Tehran, Iran, pp. 1-5, 2014.