

- demand to help balance generation and load, *IEEE Power & Energy Magazine*, 8(3), 2010, 20-29.
- [5] D. Trudnowski, M. Donnelly, & E. Lightner, Power-system frequency and stability control using decentralized intelligent loads, *Proc. IEEE PES Transmission and Distribution Conf. and Exhibition*, Dallas, TX, 2005, 1453-1459.
- [6] G.C. Heffner, C.A. Goldman, & M.M. Moezzi, Innovative approaches to verifying demand response of water heater load control, *IEEE Trans. on Power Delivery*, 21(1), 2006, 388-397.
- [7] J.A. Short, D.G. Infield, & L.L. Freris, Stabilization of grid frequency through dynamic demand control, *IEEE Trans. on Power Systems*, 22(3), 2007, 1284-1293.
- [8] R. Jia, M.H. Nehrir, & D.A. Pierre, Voltage control of aggregate electric water heater load for distribution system peak load shaving using field data, *Proc. 39th North American Power Symposium (NAPS '07)*, Las Cruces, NM, 2007, 492-497.
- [9] J. Kondoh, N. Lu, & D.J. Hammerstrom, An evaluation of the water heater load potential for providing regulation service, *IEEE Trans. on Power Systems*, 26(3), 2011, 1309-1316.
- [10] A. Molina-Garcia, F. Bouffard, & D.S. Kirschen, Decentralized demand-side contribution to primary frequency control, *IEEE Trans. on Power Systems*, 26(1), 2011, 411-419.
- [11] D. Angeli, & P-A. Kountouriotis, A stochastic approach to dynamic-demand refrigerator control, *IEEE Trans. on Control Systems Technology*, IEEE EARLY ACCESS, 2011.
- [12] S.A. Pourmousavi, & M.H. Nehrir, Demand response for smart microgrid: Initial results, *Proc. IEEE PES Innovative Smart Grid Technologies (ISGT)*, Anaheim, CA, 2011, 1-6.
- [13] S.A. Pourmousavi, M.H. Nehrir, & C. Sastry, Providing ancillary services through demand response with minimum load manipulation, *Proc. North American Power Symposium (NAPS)*, Boston, MA, 2011, 1-6.
- [14] J. Medina, N. Muller, & Conventional I. Roytelman, Demand response and distribution grid operations: opportunities and challenges, *IEEE Trans. on Smart Grid*, 1(2), 2010, 193-198.
- [15] H. Saele, & O.S. Grande, Demand response from household customers: experiences from a pilot study in Norway, *IEEE Trans. on Smart Grid*, 2(1), 2011, 102-109.
- [16] A.J. Conejo, J.M. Morales, & L. Baringo, Real-time demand response model, *IEEE Trans. on Smart Grid*, 1(3), 2010, 236-242.
- [17] D.T. Nguyen, M. Negnevitsky, & M. de Groot, Pool-based demand response exchange-concept and modeling, *IEEE Trans. on Power Systems*, 26(3), 2011, 1677-1685.
- [18] R. Walawalkar, S. Blumsack, J. Apt, & S. Fernands, An economic welfare analysis of demand response in the PJM electricity market, *Energy Policy*, 36(10), 2008, 3692-3702.
- [19] M. Klobasa, Analysis of demand response and wind integration in Germany's electricity market, *IET Renewable Power Generation*, 4(1), 2010, 55-63.
- [20] Visit website: <http://pjm.com/about-pjm.aspx>
- [21] MATLAB/ Optimization Toolbox, document is Available on line: http://www.mathworks.com/help/pdf_doc/optim/optim_tb.pdf
- [22] A. Antoniou, & W.S. Lu, Practical optimization algorithms and engineering applications (Spring Street, NY: Springer Science, 2007)
- [23] F. Katiraei, M.R. Iravani, & P.W. Lehn, Micro-grid autonomous operation during and subsequent to islanding process, *IEEE Trans. on Power Delivery*, 20(1), 2005, 248-257.
- [24] V. Menon, & M.H. Nehrir, A hybrid islanding detection technique using voltage unbalance and frequency set point, *IEEE Trans. on Power Systems*, 22(1), 2007, 442-448.
- [25] MATLAB/Simulink SimPowerSystems document, Available on line: <http://www.mathworks.com/>