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Author: Mohammad Shakeri Mohsen Shayestegan Hamza Abunima S.M. Salim Reza M. Akhtaruzzaman A.R.M. Alamoud Kamaruzzaman Sopian Nowshad Amin



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An Intelligent System Architecture in Home Energy Management Systems (HEMS) for Efficient Demand Response in Smart Grid

Mohammad Shakeri¹, Mohsen Shayestegan¹, Hamza Abunima¹, S. M. Salim Reza¹, M. Akhtaruzzaman², A. R. M. Alamoud³, Kamaruzzaman Sopian² and Nowshad Amin^{1,2,3*}

¹ Department of Electrical, Electronic and Systems Engineering, Faculty of Engineering and Built Environment, The National University of Malaysia, 43600 Bangi, Selangor, Malaysia

²Solar Energy Research Institute, The National University of Malaysia, 43600 Bangi, Selangor, Malaysia

³Department of Electrical Engineering, College of Engineering, King Saud University, Riyadh 11421, Saudi Arabia

*Corresponding author: nowshad@ukm.edu.my

Phone: +60193296750, Fax: +60389118359

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