

BIOGRAPHICAL STATEMENT

Mojtaba Shivaie is currently an Assistant Professor in the Department of Electrical Engineering at the Shahrood University of Technology, Shahrood, Iran. Prior to taking up this faculty position, he worked not only as a senior lecturer in the different national universities, but also as a technical consultant engineer both in the Iranian Grid Management Company (IGMC) in the area of the electricity market architecture and in the Niroo Research Institute (NRI) in the context of the wide-area monitoring, protection & control project.

He obtained the B.Sc. degree with first class honors in Electrical Engineering from the Semnan University, Semnan, Iran, in 2008. As a B.Sc. student, he was awarded the plaque of appreciation by the office of honor of students of the Semnan University for securing the highest scores amongst Electrical Engineering B.Sc. students. He also received the M.Sc. degree with first class honors and Ph.D. degree with first class honors, both in Electrical Engineering, from the Shahid Beheshti University, Tehran, Iran, in 2010 and 2015, respectively. As a M.Sc. student, he was awarded the letter of commendation by the office of honor of students of the Shahid Beheshti University for securing the highest scores amongst Electrical Engineering M.Sc. students. In addition, during his Ph.D. program, he was awarded the Shahid Dr. Shahriari's scholarship by the office of honor students of the Shahid Beheshti University and educational prizes by the Iran's National Elites Foundation for outstanding educational & research achievements. After completion of his Ph.D. program, he was also honored as an outstanding graduate according to the regulation of the distinguished graduates of education, research and innovation by the Iran's National Elites Foundation; and subsequently, awarded the Dr. Kazemi-Ashtiani's prize.

Dr. Shivaie served/serves as an editorial board of the International Transaction of Electrical and Computer Engineers System (ITECES) journal in the USA, an editorial board of the Control and Systems Engineering (CSE) journal in Singapore, a peer reviewer for over 12 international journals and an international committee member in the IEEE, IAENG, MCDM, IJENS, WASET, etc., societies. He has authored and co-authored 1 full book, 2 book chapters and 44 peer-reviewed papers in reputed international journals and in proceedings of international conferences. In his research and publishing activities, he has invented an innovative architecture for electricity markets, which has been published in a regular paper entitled “*towards new competitive electricity markets based on information transparency: Hypaethral market*” and co-invented (with Dr. Kiani) a modern optimization technique, which has been released in a book chapter entitled “*an innovative multi-stage multi-dimensional multiple-inhomogeneous melody search algorithm: symphony orchestra search algorithm (SOSA)*”.

His research activities mostly concentrate on studying power systems, smart distribution grid infrastructure and networks, and distributed energy resources, with an emphasis on (i) management, planning and design (ii) reliability, survivability and vulnerability assessment, (iii) cyber-physical security and self-healing, (iv) networked micro-grids and islanded mini-grids, (v) wide-area monitoring, intelligent protection and control, (vi) network integration of renewables and energy storage systems, (vii) plug-in electric vehicles and low-carbon transport, (viii) demand side management and energy saving, (ix) smart home energy management, as well as (x) stochastic simulation and optimization methods at smart grids environment.