Dr. M Saad Alam

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Dr. M. Saad Alam received the B. Tech. degree in electrical engineering from the Aligarh Muslim University, Aligarh, India, in 2003, and the M.S. in electrical and computer engineering with specialization in energy, environment and economics from the Illinois Institute of Technology, Chicago, IL, USA, in 2005. From 2006, he worked on projects sponsored by the US Office of Naval Research on electrification transportation and at Cummins Inc. till Nov 2008 in Tennessee, USA. From December 2008 he joined the automotive team of GM, Daimler Chrysler, Mercedes Hybrid and BMW in Michigan, working as joint consortium on the development of hybrid and electrified power-train. He has also obtained his PhD in electrical engineering in 2009 from Tennessee Tech University, USA. He continued working on the concept hybrid vehicle projects at Chrysler group LLC and played a key role in Battery Management System and Charging Infrastructure till 2010. At Chrysler, He worked on various projects namely: Fiat 500 Battery Electric Vehicle (BEV), RAM Plug-in Hybrid Electric Vehicle (PHEV), Chrysler Town and Country Plug-in Hybrid Electric Vehicle (PHEV), Dodge Durango Hybrid, Chrysler Aspen Hybrid, and Dodge RAM Hybrid 2 Mode HEMI. Afterwards, Dr. Alam worked on FIAT Projects on hybrid power train till 2013. From 2014 till March 2015 he worked for Ford Motor Company R&D on concept future projects on autonomous PHEVs and EVs. Dr. Alam has authored/ coauthored more than 60 publications and delivered talks in the area of hybrid, plug-in hybrid and electric vehicles and their inter-operability with smart grid, in various countries of North America, Europe and Middle East. He has also filed and has published patents in the area of charging infrastructure of EVs and PHEVS particularly V2X and X2V strategies.Dr. Alam is the recipient of the prestigious 2006 IEEE Industrial Electronics Society student paper award, on hybrid fuel cell vehicles. He was also listed on Bristol Who's Who and Madison Who's Who among Professionals and Executives in 2011 and on Mont Clair Who's Who among Collegiate Faculty in 2012. Dr. Alam has represented Chrysler Group LLC in the SAE world congress and Exhibition in Detroit Michigan, USA.Currently, Dr. Alam is an Associate Professor of Electrical Engineering at Aligarh Muslim University (AMU) and he is leading the Industrial collaborative Inter-disciplinary research in electric mobility and is the Coordinator of the Center of Advanced Research in Electrified Transportation (CARET) of AMU. Dr. Alam is also leading the Smart Microgrid project initiative for AMU in collaboration with Ministry of Power and Indian Smart Grid Forum (ISGF). At National level, He is also the Member of the Inter-Ministry Advisory Group of the Department of Heavy Industry, Ministry of Science and Technology, Ministry of Road, Transport and Highways, to support the FAME mission (Faster Adoptability and manufacturing of Hybrid and Plug-in Hybrid Electric vehicles) of the Government of India. At International Level, he is the member of SAE task force which is working on developing the International standards for the interoperability of EVs and PHEVs with the smart grid. He is serving on the Technical Program Committees of several International automotive conferences, such as IEEE Transportation Electrification Conf. and Expo. (ITEC), Dearborn, MI, USA since 2012 and International Conference on Automobile Engineering. He is an Associate Editor for the IEEE Transactions on Transportation Electrification, USA and Editor of the European Journal of Science and Engineering, UK and the Journal of Advances in Automobile Engineering, USA..His current area of research interest is Electric Mobility, xEVs charging infrastructure, smart microgrids and energy hubs optimization, Large-scale new and renewable energy integration, Grid Interactive Converters, Progressive power electronics for electric propulsion, High Voltage electric energy storage systems, cyber-physical systems, and deployment of V2X and X2V strategies.