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RESEARCH AND APPLICATIONS**

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**Paper Title: Machine Learning Insights into Plug-In Electric Vehicles and Energy Network Optimization**

**Short Bio of Presenter**

Dr. Salman Habib is an Assistant Professor in the Department of Control and Instrumentation Engineering at King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia. He has over a decade of academic, research and industrial experience. He received his Ph.D. in Electrical Engineering with a specialization in Power System Operation and Control from Shanghai Jiao Tong University, China. He completed his postdoctoral research at Hohai University, Nanjing, China, and subsequently served as a Senior Researcher at Southern University of Science and Technology, Shenzhen.

Dr. Habib's research interests span power system planning, load forecasting techniques, optimal EV charging strategies, Vehicle-to-Grid (V2G) integration, renewable energy resource integration, and risk assessment of distribution networks. He has authored and co-authored numerous articles in leading international journals and conferences, accumulating more than 3,200 citations with an h-index of 30 and i10-index of 52. He actively serves as a reviewer for several prestigious journals in the field of power systems and energy. He has been awarded multiple competitive research grants and successfully led funded projects in his domain. His work has significantly contributed to advancing the understanding of electric vehicle integration into power grids and the optimization of renewable energy systems. With his combined expertise in academia, industry consultancy, and applied research, Dr. Habib continues to contribute to the development of sustainable, smart, and resilient energy systems.