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Paper ID _____ : 65

Paper Title _____ : Low-Inertia Grids & Overcurrent Protection Risks: Analyzing Sensitivity & Coordination in IEEE 9-Bus Systems

Bio :

Ammar Samir is a PhD candidate in Electric Power Engineering at the Budapest University of Technology and Economics (BME), Hungary. He concurrently holds the role of Electrical Engineering Consultant for Egypt's New Urban Communities Authority, a position he has served in since 2014.

He earned his Master of Science in Electrical Power and Machines Engineering from Cairo University, graduating with high distinction (GPA: 3.80/4.00). His master's thesis, "An Efficient PV-Grid Connected System," laid the groundwork for his current doctoral research. He previously completed his Bachelor of Engineering at Benha University, graduating with a 'Very Good with Honors' classification.

His research interests are centered on advancing sustainable energy systems, including grid integration of renewable resources, smart grid technologies, and power system optimization. His professional expertise encompasses the supervision of large-scale electricity distribution projects and promoting the adoption of renewable energy in urban development.

In his capacity as a consultant for the New Urban Communities Authority, Mr. Samir has led critical infrastructure projects, including the oversight of electrical works for social housing and water/sewage stations, bridging the gap between advanced academic research and practical, large-scale engineering applications.