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Modelling and Simulation Of Complex Systems

Abstract:

This talk will review how Simulation and Modelling have evolved over the last 30 years. In particular, this talk will demonstrate how they are clearly displacing experimentation and supplementing theoretical study. A number of examples from science and engineering will be examined and the cost effectiveness of simulation in industry will be shown. The talk will conclude by identifying the challenges for simulation in the 21st century.

Biography:

Dr Sa'ad Mansoor is Senior Lecturer at School of Computer Science at Bangor University. He received his Ph.D. from Bangor University in 1999. Following postdoctoral position at Control System Laboratory in Bangor University, in 2002 he joined the school of Computer Science as a lecturer.

His current research interests are in the broad area of Complex System Modelling and Simulation. He has been working on Grid and Power System dynamic modelling which focuses on hardware-in-the-loop real-time simulation and modelling of integrated power systems.

Dr Mansoor is a member of the IET, a member of the British Computer Society, a member of IASTED and Senior Member of IACSIT organisation.