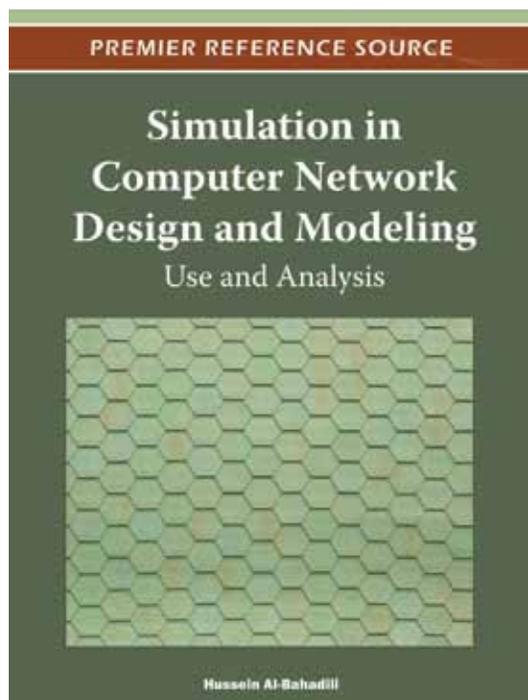


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Simulation in Computer Network Design and Modeling: Use and Analysis



Hussein Al-Bahadili (Petra University, Jordan)

Computer networks have become essential to the survival of businesses, organizations, and educational institutions, as the number of network users, services, and applications has increased alongside advancements in information technology. Given this, efforts have been put forward by researchers, designers, managers, analysts, and professionals to optimize network performance and satisfy the varied groups that have an interest in network design and implementation.

Simulation in Computer Network Design and Modeling: Use and Analysis reviews methodologies in computer network simulation and modeling, illustrates the benefits of simulation in computer networks design, modeling, and analysis, and identifies the main issues that face efficient and effective computer network simulation. This reference will inform the work and research of academics, post-graduate students, developers, network designers, network analysts, telecommunication system designers, and others who are interested in using simulation in computer network design and modeling.

Topics Covered:

- Interpersonal relationship
- Behavior theories
- Power dynamics
- Social psychological perspective
- Social capital
- Community participation frameworks
- Process virtualization
- Belonging or inclusion
- Gift economy perspective
- Lurking and active participation

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Hussein Al-Bahadili received his B.Sc degree in Engineering from College of Engineering (University of Baghdad, Iraq) in 1986. He received his M.Sc and PhD degrees in Engineering from Queen Mary College (University of London, UK) in 1988 and 1991, respectively. His field of study was parallel computers. He is currently working as an Associate Professor at Petra University, Jordan. He is a visiting researcher at the Wireless Networks and Communications Centre (WNCC) at the University of Brunel, UK. He is also a visiting researcher at the School of Engineering, University of Surrey, UK. He has published many papers and book chapters in different fields of science and engineering in numerous leading scholarly and practitioner journals, books and presented at leading world-level scholarly conferences. His research interests include parallel and distributed computing, wireless communications, computer networks, cryptography and network security, data compression, image processing and artificial intelligence and expert systems.