DESCRIPTION

The only singular, all-encompassing textbook on state-of-the-art technical performance evaluation

Fundamentals of Performance Evaluation of Computer and Telecommunication Systems uniquely presents all techniques of performance evaluation of computers systems, communication networks, and telecommunications in a balanced manner. Written by the renowned Professor Mohammad S. Obaidat and his coauthor Professor Noureddine Boudriga, it is also the only resource to treat computer and telecommunication systems as inseparable issues. The authors explain the basic concepts of performance evaluation, applications, performance evaluation metrics, workload types, benchmarking, and characterization of workload. This is followed by a review of the basics of probability theory, and then, the main techniques for performance evaluation#namely measurement, simulation, and analytic modeling#with case studies and examples.

Contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach
Reviews measurement tools, benchmark programs, design of experiments, traffic models, basics of queueing theory, and operational and mean value analysis.

Covers the techniques for validation and verification of simulation as well as random number generation, random variate generation, and testing with examples.

Features numerous examples and case studies, as well as exercises and problems for use as homework or programming assignments.

Fundamentals of Performance Evaluation of Computer and Telecommunication Systems is an ideal textbook for graduate students in computer science, electrical engineering, computer engineering, and information sciences, technology, and systems. It is also an excellent reference for practicing engineers and scientists.

ABOUT THE AUTHOR

Professor Mohammad S. Obaidat is an internationally well-known academic/researcher/scientist. He received his Ph.D. and M.S. degrees in Computer Engineering with a minor in Computer Science from the Ohio State University, Columbus, Ohio, USA. Dr. Obaidat is currently a tenured full Professor of Computer Science at Monmouth University, NJ, USA. Among his previous positions are Chair of the Department of Computer Science and Director of the Graduate Program at Monmouth University and a faculty member at the City University of New York. He has received extensive research funding and has published over two hundred and ten (210) refereed technical articles in refereed scholarly journals and proceedings of refereed international conferences. He is the co-author of the book entitled, "Wireless Networks" to be published by Wiley in August 2002. Noureddine Boudriga is a professor at the School of Telecommunications at Catharge University in Tunis, Tunisia.
FEATURES

Explains basic concepts of performance evaluation, applications, performance evaluation metrics, workload types, and benchmarking

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