

Table of Contents

Position Paper

- Performance Evaluation in Industry: A Personal Perspective 3
Stephen S. Lavenberg, Mark S. Squillante

I Topical Area Papers

- Mainframe Systems 17
Jeffrey P. Buzen
- Performance Analysis of Storage Systems 33
Elizabeth Shriver, Bruce K. Hillyer, Avi Silberschatz
- Ad Hoc, Wireless, Mobile Networks: The Role of Performance Modeling and Evaluation 51
Mario Gerla, Manthos Kazantzidis, Guangyu Pei, Fabrizio Talucci, Ken Tang
- Trace-Driven Memory Simulation: A Survey 97
Richard A. Uhlig, Trevor N. Mudge
- Performance Issues in Parallel Processing Systems 141
Luiz A. DeRose, Mario Pantano, Daniel A. Reed, Jeffrey S. Vetter
- Measurement-Based Analysis of Networked System Availability 161
Ravishankar K. Iyer, Zbigniew Kalbarczyk, Mahesh Kalyanakrishnan
- Performance of Client/Server Systems 201
Daniel A. Menascé, Virgilio A. F. Almeida
- Performance Characteristics of the World Wide Web 219
Mark E. Crovella
- Parallel Job Scheduling: A Performance Perspective 233
Shikharesh Majumdar, Eric W. Parsons
- Scheduling of Real-Time Tasks with Complex Constraints 253
Seonho Choi, Ashok K. Agrawala

Software Performance Evaluation by Models	283
<i>Murray Woodside</i>	
Performance Analysis of Database Systems	305
<i>Alexander Thomasian</i>	
Performance Analysis of Concurrency Control Methods	329
<i>Alexander Thomasian</i>	
Numerical Analysis Methods	355
<i>William J. Stewart</i>	
Product Form Queueing Networks	377
<i>Simone Balsamo</i>	
Stochastic Modeling Formalisms for Dependability, Performance and Performability	403
<i>Katerina Goševa-Popstojanova, Kishor Trivedi</i>	
Analysis and Application of Polling Models	423
<i>Hideaki Takagi</i>	
Discrete-Event Simulation in Performance Evaluation	443
<i>David M. Nicol</i>	
Workload Characterization Issues and Methodologies	459
<i>Maria Calzarossa, Luisa Massari, Daniele Tessera</i>	

II Personal Accounts of Key Contributors

From the Central Server Model to BEST/1©	485
<i>Jeffrey P. Buzen</i>	
Mean Value Analysis: A Personal Account	491
<i>Martin Reiser</i>	
The Early Days of GSPNs	505
<i>Marco Ajmone Marsan, Gianfranco Balbo, Gianni Conte</i>	
The Discovery of Self-similar Traffic	513
<i>Walter Willinger</i>	
Author Index	529