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SPECTS 2004

2004 International Symposium on Performance Evaluation of Computer and Telecommunication Systems

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July 25 - 29, 2004 • San Jose, California • Hyatt Hotel

This annual international conference is a forum for professionals involved in performance evaluation of computer and telecommunication systems. Evaluation of computer systems and networks is needed at every stage in the life cycle of the product including design, manufacturing, sales/purchase, use, upgrade, tuning, etc. The discipline of performance evaluation has progressed rapidly in the past decade, and it has now begun to approach maturity. Significant progress has been made in analytic modeling, simulation, and measurement approaches for performance evaluation of computer and telecommunication systems. The list of topics includes (but is not limited to):

Networking and Telecommunication Systems

- Internet Technology
- Quality of Service (QoS)
- DiffServ/IntServ
- MPLS
- TCP
- World Wide Web (WWW) Technology
- Networking Techniques
- Unicast and Multicast Routing
- Congestion Control
- Switching Techniques
- Teletraffic
- Network Protocols
- Network Management and Control
- Network Capacity Planning
- Network Architecture Evaluation
- Service and QoS Pricing
- Security and Authentication
- Broadband Networks
- High-Speed Networking
- ATM
- Optical Networks
- Wireless Systems and Networks
- Satellite Systems
- UMTS
- Mobile Networks/Computing
- Ad-hoc networks
- Multimedia Communications and Applications

Computer Systems

- Distributed Architectures
- Client/Server
- Distributed Systems and Agents
- Parallel and Distributed Computing
- Massively Parallel Systems
- Cluster Computing
- Grid Computing
- Interconnection Networks
- Computer Architectures
- Microprocessors/Microcomputers
- Memory Systems
- High Performance I/O
- Real-time Systems
- Scheduling Schemes
- Software Performance, Evaluation and Testing
- Parallel Algorithms and Languages
- Hardware and Software Monitors
- High-Performance Computing
- Workload and Traffic Characterization
- Scientific Computing Algorithms
- Reconfigurable Computing
- Electronic Commerce

Tools, Methodologies, and Applications

- Parallel and Distributed Simulation
- Verification and Validation
- Performance Tools and Methodologies
- Neural Networks and Fuzzy Logic Applications to High Performance Computing/Networking
- Performance Optimization, Bounds and Models
- Queueing Systems and Networks
- Scalability Studies
- Integrated Modeling and Measurement
- On-Line Performance Adaptation and Tuning
- Process Algebra-Based Models
- Mathematical Aspects and Integrated Design of Performance
- Case Studies

Paper Submission

Submit your complete papers electronically to: <http://scs.proceedingscentral.com/> All required instructions will be posted on this web site. Submissions should not exceed 25 double-spaced, 8.5x11 inch pages (including figures, tables, and references) in 10-12 point font. Include five to ten keywords, complete postal and e-mail addresses, and fax and phone numbers of corresponding author. If you have difficulty in electronic submission, contact the Web Master, Program Chairs or the Conference Coordinator, Mr. Steve Branch, The Society for Modeling and Simulation International, 4838 Ronson Court, Suite L, San Diego, CA 92111, USA, Tel 858-277-3888, Fax 858-277-3930, E-mail sbranch@scs.org. Extended versions of selected accepted papers in SPECTS 2004 will be considered for possible publication in scholarly journals. Proposals for tutorials should be sent to the Conference Vice Program Chair, Mario Marchese. Proposals for special sessions and panel sessions should be submitted to the Vice Program Chair, Jose L. Marzo. For more information regarding presentations or exhibitions at SPECTS 2004 contact: Mr. Steve Branch at the address shown above.

Workshop on Performance of High Performance Parallel and Distributed Systems (part of SPECTS2004)

To submit papers to the workshop and for more info, contact any of the organizers: Geoffrey Fox, University of Indiana, USA at: gcf@grids.ucs.indiana.edu, Tel: 315-254-6387 or 812-856-7977, Fax: 812-856-7972 OR Mark Baker, University of Portsmouth, UK, at: Mark.Baker@computer.org, Tel: +44 2392 845826, Fax: +44 2392 845626

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DEADLINES

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