



Call for Papers

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SPECTS 2014

2014 International Symposium on Performance Evaluation of Computer and Telecommunication Systems

<http://atc.udg.edu/SPECTS2014/>

July 6-10, 2014, Monterey, CA, USA

This annual international conference is a scientific forum for professionals and scientists involved in performance evaluation of computer and telecommunication systems. Performance evaluation of computer systems and networks has progressed rapidly in the past decade and has begun to approach maturity. Significant progress has been made in analytic modeling, simulation, and measurement approaches for performance evaluation of computer and telecommunication systems.

Papers and Demos are solicited in (but not limited to) the following topics:

Networking and Telecommunication Systems

Internet, Next Generation Networking Technologies and Services

- Next Generation Networking (Architectures, Technologies, Services, Protocols)
- Future Internet
- Internet of Things and enabling technologies
- Network virtualization and services
- Switching and routing
- Network security, survivability and resilience
- Traffic engineering, network reliability, Quality of Service (QoS), Quality of Experience (QoE)
- Optical networks and systems
- Optical – wireless networks
- Green communications and networking
- Service-centric, content-centric, peer-to-peer and overlay networks and applications
- Service convergence and multimedia networks
- Internet applications and services
- Service Oriented Architectures and Web Services
- E-commerce, M-commerce
- Smart Grid
- Smart Cities
- E-Health applications
- Location / Context-aware services
- Pervasive/wearable computing
- Pricing & Billing

Wireless Communications and Networking

- Modulation and coding
- MIMO
- Smart antennas
- Multiple access techniques
- Cognitive radio and networking
- Cooperative communications and networking
- Cellular systems and wireless networks (2G, 2.5G, 3G, 4G and beyond)
- Wireless LAN, Wireless PAN, Body Area Networks
- Wireless ad hoc and mesh networks
- Wireless sensor networks
- Delay and Disruption Tolerant Networking /Opportunistic Networking
- Satellite and Space Communications and Networking
- Heterogeneous Networks / Hybrid communication systems
- Network design, optimization and management
- Cross layer design and optimization
- Energy Efficient Protocols

Computer Systems

Distributed Architecture & Middleware

- Client/Server
- Distributed Systems and Multi Agent Systems
- Parallel and Distributed Computing
- Massively Parallel Systems
- Grid, Cluster and Cloud Computing
- High-Performance Computing
- Green Computing
- Distributed and Mobile Middleware

Computer Architectures

- Microprocessors/Microcomputers
- Memory Systems
- High Performance I/O
- Real-time Systems/Scheduling Schemes

Software

- Software Engineering
- Software Performance, Evaluation, and Testing
- Formal Methods
- Verification and Validation
- Parallel Algorithms and Languages

Security and Information Assurance

- Security protocols and techniques
- Anonymity and Privacy
- Access Control
- Identity Management
- Digital Rights Management
- Intrusion Detection and Honeypot solutions
- Trust Management
- Formal Methods for Security
- Cryptography

Data Storage

- Technologies for hard disk drives and optical drives
- Data storage systems
- Data compression for digital storage, including audio and video
- Fault tolerance and coding techniques for disk arrays and data centers
- Signal processing and coding methods for object based storage systems
- Measurement, testing, performance optimization, and cost-performance trade-off
- Emerging recording technologies
- NAND, PRAM
- MRAM, STT-MRAM, RRAM and memristor based memories

Tools & Methodologies

Modeling and Analysis

Parallel and Distributed Simulation

Verification and Validation

Performance Optimization, Bounds, and Models

Queuing Systems and Networks

Neural Networks and Fuzzy Logic Applications

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, Testbed deployments, field trials and experiences

Paper Submission

Please submit your complete papers electronically to: <http://www.softconf.com/scs/SPECTS14/> Instructions for authors will be posted on the conference website: <http://atc.udg.edu/SPECTS2014/>

Proposals for 1.5 hour tutorials and special sessions should be sent to the Tutorials and Special Sessions Chair. Tutorial abstracts along with keynote speeches' abstracts will be included in the proceedings of the conference.

Best Paper Awards

These awards, one for each track, is open to all accepted papers. Papers will be evaluated based on originality, technical contribution, and presentation quality during the workshop.

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Deadlines

Proposals for Special Sessions.....	Extended until April 2nd, 2014
Full Paper (up to 6 pages) Submissions Regular and Special Sessions. Extended until April 2nd, 2014	
Demo abstract submission (1 page).....	May 15th, 2014
Notification to Full Paper Authors.....	May 20th, 2014
Notification to Demo Authors	May 30th, 2014
Author registration and Camera-ready Paper Submission	June 10th, 2014