



# Call for Papers

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# SPECTS 2017

## 2017 International Symposium on Performance Evaluation of Computer and Telecommunication Systems

<http://atc.udg.edu/SPECTS2017/>

July 9-12, 2017, Seattle, WA, 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
- eHealth
- eHealth Applications
- Mobile and eHealth applications
- e-Infrastructure for health
- Telemedicine
- Net-centric healthcare management/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

### Paper Submission

Please submit your complete papers electronically to: <https://www.softconf.com/sim/SPECTS17/> Instructions for authors will be posted on the conference website: <http://atc.udg.edu/SPECTS2017/>

Accepted and presented papers will be published in the conference proceedings and submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

Proposals for 1.5 hour tutorials and invited sessions should be sent to the Tutorials and Invited Sessions Chairs. Tutorial abstracts along with keynote speeches' abstracts will also 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.

### SPECTS Steering Committee

- Franco Davoli Univ. of Genoa, Italy
- Pascal Lorenz, Univ. of Haute Alsace, France
- Mohammad S Obaidat, Fordham Univ., USA (Chair)
- Jose L. Sevillano, Univ. of Seville, Spain
- Laurence Yang, St. Francis Xavier Univ., Canada

### Deadlines

Invited session, workshop, tutorial proposals.....	<b>Extended to March 13, 2017</b>
Paper submission.....	<b>Extended to April 17, 2017</b>
Author notification .....	<b>May 14, 2017</b>
Camera-ready paper submission .....	<b>May 28, 2017</b>

### 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

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