Motto: ‘Complexity and the Role of Modeling and Simulation’

Important Dates:
Abstract submission: December 30, 2014
Special Sessions Proposals (Workshops, tutorials, etc.): January 10, 2015
Paper Submission: February 10, 2015
Notification of acceptance: March 31, 2015
Work in Progress: March 31, 2015
Camera ready: April 12, 2015

Aims and Scope:
The Summer Simulation Conference 2015 (SummerSim’15) is SCS’s premier international conference in cooperation with ACM SIGSIM. The conference focuses on modeling and simulation, tools, theory, methodologies and applications and provides a forum for the latest R&D results in academia and industry. This year’s focus is on hybrid, discrete and continuous systems, and the role of M&S in addressing complexity. We encourage you to take this opportunity to experience the tutorials, tracks, and workshops that will be available.

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A selected group of the best papers of SummerSim 2015 will be invited to be published in a Special Issue devoted to SummerSim 2015. At the moment, the committee is looking for appropriate venues of journal publications. All authors are encouraged to submit extended versions of their papers to the Special Issue according to the guidelines found on the webpage. Please see more details at: http://www.scs.org/summersim.

Authors of accepted papers are expected to attend the conference, present their work to their peers, transfer copyright, and pay a conference registration fee at the time their camera-ready paper is submitted. All papers will be included in the conference proceedings and archived in both the SCS digital library and the ACM Digital Library, and will be indexed in DBLP and SCOPUS.

SummerSim’15 includes the following events:

- **International Symposium on Performance Evaluation of Computer and Telecommunication Systems**
  Chairs SPECTS 2015:
  - Franco Davoli, Univ. of Genoa, Italy
  - Jose Marzo, Univ. of Girona, Spain

- **47th Summer Computer Simulation Conference 2015**
  Chairs SCSC 2015:
  - Saurabh Mittal, Dunip Technologies, LLC, Colorado, USA
  - Il Chul Moon, KAIST, Korea
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SPECTS 2015

http://atc.udg.edu/SPECTS2015/

July 26-29, 2015, Chicago, IL, 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, context-centric, peer-to-peer and overlay networks and applications
- Service convergence, Unmanned Aerial Systems (UAS), and multimedia networks
- Internet applications and services
- Service Oriented Architectures and Web Services
- E-commerce, M-commerce
- Smart Grid
- Social Security
- E-Health applications
- Location / Context-aware services
- 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 (BAN), Wireless home networks
- Wireless sensor networks
- Delay and Disruption Tolerant Networking (DTN)
- 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
- Grid, Cloud 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-offs
- Emerging recording technologies
- NAND, PRAM, MRAM, STT-MRAM, RAM and memristor based memories

Emerging recording Technologies

Call for Papers

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Proceedings

Paper Submission

Please submit your complete papers electronically to: http://www.softconf.com/scs/SPECTS15/ Instructions for authors will be posted on the conference website: http://atc.udg.edu/SPECTS2015/

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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Deadline
Invited session, workshop, tutorial proposals ................................................................. February 20, 2015
Paper submission ........................................................................................................... February 20, 2015
Author notification ...................................................................................................... March 31, 2015
Camera-ready paper submission ................................................................................ April 12, 2015