

Western Simulation MultiConference

You are cordially invited to participate in the 2005 Western Simulation MultiConference. The WMC 2005 will comprise formal paper presentations and poster sessions. The Program Committee will select papers for longer presentation slots. The corresponding papers will be fully refereed. All papers and poster session abstracts will be published in the conference proceedings.

Original, high-quality technical papers are solicited for review, possible presentation, and subsequent publication in the conference proceedings. All final paper submissions are to be made electronically to SCS via the Proceedings Central proceedings management system at <http://scs.proceedingscentral.com>. Include complete postal and e-mail addresses and fax and phone numbers of corresponding author. Papers must be in English. For further instructions, please refer to the Submission Instructions in the Proceedings Central Web site. Confirmations will be sent to the contact author when the file has been retrieved and successfully viewed or printed. Authors should identify the area(s) in which they think their contribution would best fit. Authors must obtain any employer, client, or government clearances before submission of the final manuscript. All conference attendees participate at their own expense.

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For details on topical areas, submission requirements, deadlines, and up-to-date information, please consult the URL: <http://www.scs.org/westernsim/>

Communication Networks and Distributed Systems Modeling and Simulation Conference

The purpose of this conference is to serve as a forum for the exchange of ideas on advances in the design and performance analysis of communications networks and distributed systems. CNDS seeks papers that focus on challenges faced by researchers seeking to develop new principles and gain greater insight into design tradeoffs and performance limitations inherent in emerging systems. CNDS'05 will feature a keynote speaker, panel discussion, a Best-Paper Award and a Best-Student Paper Award. Papers are solicited from, but not limited to the following topics:

- Current Challenges in Network Simulation
- Methods and Applications for Network Simulators
- Modeling and Analysis of Wireless Systems
- Wireless Ad Hoc Networks
- Cross-Layer Effects and Design in Wireless Systems
- Scalable Simulation of Dynamic Networks
- Mobility Modeling, Simulation, and Analysis
- Traffic Modeling and Validation
- Network-Based Quality-of-Service
- Distributed Information Management
- Emerging Topics in Networks and Distributed Systems

CNDS seeks original high quality papers that emphasize simulation methods, analysis or application. Submissions must be made via the SCS proceedings management system: <http://scs.proceedingscentral.com>. All submissions will be fully refereed for originality, technical content and relevance. Final papers are limited to the 6 single-space, double-column papers. For more information see the submission instructions in the Author Center of the Proceedings Central web site. One author is required to register and present the paper at the conference.

Full-Paper Submission Deadline: **Nov 3, 2004**
Acceptance Notification: **Dec 15, 2004**
Camera-Ready Papers Due: **Jan 1, 2005**

General Chair

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For details on topical areas, submission requirements, deadlines, and up-to-date information, please consult the URL: <http://www.ece.neu.edu/conf/CNDS/2005/>

International Conference on Bond Graph Modeling and Simulation

This conference on bond graph modeling and simulation brings together research paper presentations, panel sessions, tutorials, workshops, seminars, industrial applications, and software demonstrations that use bond graph modeling methods. The conference will focus on bond graph modeling techniques for dynamic systems. Theoretical principles for electrical, mechanical, hydraulic, pneumatic, and control system applications will be presented. Leading industrial users of the method in automotive, aircraft, fluid power, kinematics, multibody systems, and social and biological systems have been invited.

Possible Topics Include:

- Software and Tools
- Bond Graph Theory
- Advanced Bond Graph Methodology
- Bond Graphs and Block Diagrams
- Computer Graphics and Bond Graph Modeling
- Qualitative Modeling
- Mechatronics Systems
- Mechanical Systems and Robotics
- Electrical and Power Systems
- Control Systems
- Thermal and Chemical Systems
- Biomechanics and Prosthetics
- Ecological Systems
- Biological and Medical Systems
- Social and Economic Systems
- Industrial Applications
- Large, Nonlinear Models

Full papers due for review by **July 01, 2004**

General Chair

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SIMCHI '05 Human-Computer Interface Advances for Modeling and Simulation

Questions of how humans interact with models, along with their simulations and analyses, have been largely unexplored within Modeling and Simulation (M&S). While significant studies exist for physical simulators, there remain a significant number of issues stemming from new technologies within computing, media, and the arts. We envisage that human-computer interaction (HCI) will play an increasingly significant role in the computer simulation area as HCI technologies increase in variety and decrease in expense.

This conference aims to bring together a diverse set of practitioners from simulation, computer science, psychology, new media studies, and the arts to explore new ways in which HCI and simulation can aid each other through a two-way transference of ideas, methods, and tools.

Sample Topics:

- Visualization and aural methodologies for simulation data, models, and output analysis
- Personalization, customization and cultural approaches for M&S
- Human interaction modalities: tangible, pervasive and ubiquitous computing; augmented and virtual reality
- Empirical cognitive studies for computer-based M&S environments
- Semiotics and representational issues in M&S
- Role of aesthetics and emotion in M&S
- Human interaction methods supporting M&S for new

Abstracts due for review by **June 15, 2004**
Full papers due for review by **September 01, 2004**

General Chair

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International Conference on Simulation in Education

ICSEE'05 provides a forum for discussions and presentations focusing on the use of simulation tools in education and training. The target audience of the conference is educators in all areas of science and engineering who use simulation in their educational setting. Examples of such activity include development of new simulation methodologies, the development and use of simulations in all areas of education, and the integration of simulation and visualization into online, pervasive, and computer-based teaching environments.

- Teaching modeling and simulation
- Educational case studies
- Design and use of simulators for educational purposes
- Modeling and simulation curriculum
- Computer and web based education and training
- Innovative uses of modeling and simulation
- Development of multimedia models and their application in education
- New educational paradigms
- Virtual reality and potential applications of VR in education
- Modeling and simulation for education
- Use of simulations for educational purposes
- Simulation languages, packages, and simulation-based curricula
- Computer-based and simulation-integrated laboratories
- New software and hardware developments and their impact
- Experiences in integrating computers and software tools in education
- Government and corporate programs in support of computer- and multimedia-based education

Authors interested in topics listed above are encouraged to submit the extended abstract, up to two pages long, and a one-page summary to the Program Chair.

Important Dates:

Abstract Submission due (all participants): **June 15, 2004**
Feedback on appropriateness of the abstract: **June 30, 2004**
Submission deadline (full papers): **July 30, 2004**
Author Notification (all participants): **October 1, 2004**
Camera-ready Copy: **October 31, 2004**

General Chair

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For details on topical areas, submission requirements, deadlines, and up-to-date information, please consult the URL: <http://runestone.it.uu.se/~arnoldp/ICSEI/>

International Conference on Health Sciences Simulation

This annual conference, sponsored by the Society for Modeling and Simulation International (SCS), is a forum for modeling and simulation in the health sciences. Application areas include health services studies, pharmacometrics, drug and device development, medical practice, modeling epidemics, physiology, and methodology. Practitioners of modeling are encouraged to submit proposals based on their applications and demonstrations of computer simulation techniques. A sampling of applications presented in the past is indicated in the general sessions list shown below. Programs from recent conferences are available at: <http://www.sla.purdue.edu/academic/soc/andersonj/anderson.html>

Sample Sessions

- Health Services
- Pharmacodynamics
- Drug Development
- Bioengineering
- Physiology
- Medical Practice
- Medical Decision Making
- Microbiological Processes
- Epidemiology
- Health Policy
- Methodology and Software
- Tutorials

Typical Associated Application Topics

- Resource Allocation, Care Assessment
- Dose Response, Synergy, Toxicology
- Clinical Trials, Population Analyses
- Cardiac Devices, Regeneration
- Endocrine Systems, Metabolism
- Cancer Survival, Obesity Control
- Screening, Treatment
- Genetic Control, Pathogenesis
- Disease Transmission, Treatment Costs
- Risk Evaluation, Infection Control
- Modeling Platforms, gepasi
- Pharmacodynamic Advances, Genomics

Draft paper submission deadline is **September 30, 2004**

General Co-Chair

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For details on topical areas, submission requirements, deadlines, and up-to-date information, please consult the URL: <http://www.sla.purdue.edu/academic/soc/andersonj/anderson.html>

International Conference on Fossil Simulation and Training

The 2005 International Fossil Simulation and Training Meeting will include several sessions on Fossil Power Plant Simulation and staff training. Authors are invited to submit abstracts describing their work in these areas. The topics of interest in fossil simulation and training include but are not limited to:

- Control Systems and Operator Training Simulators
- Combustion/Emission Modeling
- Management of Simulator Projects
- Training with Plant Simulators
- Advanced Simulation Technologies
- Benefits of Operator Training Simulators
- Update on EPRI Compact Simulators
- Ongoing Simulator Projects
- Training Experiences with Simulators
- Follow-On Applications of Simulators for Maintenance, I&C, and Engineering
- Artificial Intelligence and Multimedia
- Training Organizations
- Costs and Cost Benefits of Training Simulators

Three copies of a 300-word abstract or a draft paper should be submitted to the session organizers by the submission deadline: **October 15, 2004.**

General Chair

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International Conference on Simulation Technology for Nuclear Power Plants and Systems

This annual conference sponsored by the Society for Modeling and Simulation International (SCS) is organized to bring professionals within the nuclear simulation field together with other peers, contractors, vendors, suppliers, standards committee members, and regulators. Information is exchanged through the formal presentation of professional papers, participation in panel discussions, and industrial user groups meetings that focus on the special needs within the nuclear simulation community.

Professional paper presentations are provided on Monday, January 24, 2005, and Tuesday, January 25, 2005. Vendor booth displays are also available for observation and hands-on demonstration opportunities of the latest technologies in software and equipment.

Suggested Session Titles Include:

- Core, thermal hydraulic, fluid flow, and heat transfer Modeling
- Plant Process Computers, Soft Panel Simulation
- Simulation Primary and Secondary Systems Modeling Applications
- Simulator Performance and Transient Results
- Simulation Development and Upgrade Projects
- ANSI-3.5 Standard Committee Update—Panel Discussion
- NRC Update—Panel Discussion

Included at the conference will be various workshops and workgroups.

- Regional Workshops
- Utility Simulator User Groups
- Vendor User Groups

Full paper submission deadline is **September 30, 2004**

General Chair

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