



CALL FOR PAPERS

3rd Annual IEEE International Systems Conference

March 23-26, 2009

Marriott Vancouver Pinnacle Hotel
Vancouver, British Columbia, Canada

Conference Theme

The theme of the IEEE Systems Conference is Engineering Complex Integrated Systems and Systems-of-systems – Implications for Systems Engineering, Systems Integration, and Systems Thinking.

Background

The IEEE Systems Council facilitates interactions among communities of interest on system-level problems and applications. System-level thinking is essential in the world today, not only for technical systems, but also for society at large. The Council addresses the discipline of systems engineering, including the issues and complexities of system-level and system-of-systems applications, focusing on the total systems effectiveness of complex integrated systems of national and global significance.

Conference Objectives

This conference seeks to create an interactive forum for the advancement of the practice of system design, development, and management, across the multiple disciplines and specialty areas associated with the engineering of systems. The conference will provide a venue for systems engineering practitioners, managers, researchers, and educators to exchange innovative concepts, ideas, applications, and lessons learned addressing:

- Applications-oriented topics on large-scale systems and system-of-systems in topics noted below
- Systems engineering, education, standards, processes and methodologies for the system-of-systems environment
- Research opportunities and results relating to system-of-systems

Topic areas for consideration include:

- System architecture, especially at the system-of-systems level
- Engineering systems of systems including risk management
- Systems reliability
- Engineering Processes for the system-of-systems design environment
- Systems engineering quality management
- Systems modeling & simulation
- Systems Verification and Validation
- Systems engineering education and training
 - Program/Project management for system-of-systems
 - “Systems thinking” benefits

- Technology transfer between academia and industry
- Societal and Political impacts of systems and systems design
- The impact of systems engineering on other engineering fields
- Systems considerations such as:
 - Disaster response
 - Energy management & sustainability, including renewable energy
 - Communications systems
 - Medical systems
 - Gaming and entertainment systems
 - Transportation Systems
 - Global Earth Observation
 - Sensors integration and Application for a Net-centric environment
 - Large-scale systems integration in any application area

We invite authors to submit an extended abstract of 3 to 4 pages in length, including figures, tables and references. The extended abstract should summarize the scope of the paper and the primary results and findings, emphasizing new advances, theories and/or applications so that the program committee will be able to understand the originality and the value of the work. Abstracts should be submitted electronically to the EDAS Website at www.edas.info. Please submit to IEEE SysCon 2009. For comprehensive information, please reference the conference web site at <http://sysconf09.ieeesystemscouncil.org>

IMPORTANT MILESTONES:

Abstract Submission Deadline: **September 1, 2008**

Acceptance Notification and Author Instructions: **November 20, 2008**

Submission of Camera-Ready Papers: **February 1, 2009**

<p>For Technical Program information contact: Paul R. Croll, Technical Program Chairman Computer Sciences Corporation 5166 Potomac Drive King George, VA 22485 (540) 644-6224 pcroll@csc.com</p>	<p>For Conference information contact: Bob Rassa, General Chairman Raytheon Company 2000 E. El Segundo Blvd, MS R01/B523 El Segundo, CA 90245 (310) 334-0764 RCRassa@raytheon.com</p>
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About the IEEE Systems Council:

The IEEE Systems Council is one of the newest Technical Activities Board organizations and was formed in June 2005. The Field of Interest for the Council follows:

This Council integrates IEEE activities regarding aspects of multiple disciplines and specialty areas associated with the engineering of systems. This Council covers, but is not limited to the following:

- Systems engineering, education, standards, processes and methodologies
- Modeling, simulation and integration related to design, testing, production and support
- Design aspects for robust design, human factors, safety, security and usability
- Transition of products from design to production, deployment and use
- Quality control and system management
- Program/product/project management interactions
- Risk Management
- Systems Architecture

Member Societies of the Council are:

§ Aerospace & Electronic Systems (AES) § Systems, Man & Cybernetics (SMC) § Instrumentation & Measurement (IMS) § Circuits And Systems (CAS) § Microwave Theory & Techniques (MTT) § Computer (CS) § Communications (ComSoc) § Oceanic Engineering (OES) § Computational Intelligence (CIS) § Product Safety Engineering (PSES) § Power Electronics (PELS) § Control Systems (CSS) § Reliability (RS) § Robotics & Automation (RAS)