

# [ICSEng'05] Final CFP – due date March 10, 2005

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EIGHTEENTH INTERNATIONAL CONFERENCE ON SYSTEMS ENGINEERING (ICSEng05)  
LAS VEGAS, USA,  
AUGUST 16–18, 2005  
(<http://www.icseng.info>)

This series of International Conferences is jointly organized on a rotational basis among three institutions, University of Nevada, Las Vegas, USA, Technical University of Wroclaw, Poland, and Coventry University, UK. In August 2005, the 18th International Conference will be held in Las Vegas, NV, at the University of Nevada, Las Vegas, USA. The Proceedings of the conference will be published by IEEE CS. ICSEng05 is organized jointly with the International Conference on Computational Intelligence and Multimedia Applications (ICCIMA'05: [www.iccima.org](http://www.iccima.org)) and the registered participants of ICSEng05 will be able to attend ICCIMA05.

**Scope of Conference:**

The Conference will cover the general area of Systems Engineering, with particular emphasis being placed on applications. It is expected to include sessions on the following themes:

Avionics

Computer Algorithms, Databases, Parallel and Distributed Systems, Networks

Digital systems, Architecture

Control Theory, System Identification and Adaptive Control, Nonlinear

Controls

Engineered Systems for Nuclear Waste Management

Environmental Systems and Energy Systems

Expert Systems and Artificial Intelligence

Finance Engineering

Geographic Information Systems

Global Position Systems

Information Theory and Communication Systems

Neural Network and Applications

Requirements Processes

Risk Management

Robotics and Industrial Automation

Systems Engineering Metrics

Systems Engineering Paradigms, Standards and Challenges

System Architecture

Standards and Testing  
Signal Processing  
Systems Engineering Education  
Transportation Systems

Special Tracks:

1. Data Fusion:

Data fusion is the concept of comparing, combining, and interpreting data over time and from disparate information sources (sensors, data bases, and knowledge bases) in order to gain a better understanding of ones environment, scenario, and/or situation. The four primary level of data fusion include object refinement, situational assessment, impact assessment, and refinement. The applications of and technologies associated with data fusion are quite varied. Applications include (but are not limited to) target tracking, fault detection and diagnosis, environmental monitoring, control systems, medical systems, robotics, and traffic control.

Technologies in the field of data fusion include estimation theory, neural networks, fuzzy logic, control, probability theory, image processing, decision theory, and data mining. Papers are being sought for this special session on data fusion which address advances in fusion technologies and applications of data fusion systems. One page abstracts for the purpose of reviewing are due by March 10, 2004.

For more information: <http://www.icseng.info/data.htm>

2. Risk Management:

This track is ideal for program/project managers, project personnel, risk managers, and support personnel wanting to develop and expand knowledge, and share experiences, on best practices in aerospace risk management processes. Presentations by invited speakers, followed by a panel discussion, are provided for track participants. Risk management is a project-wide effort involving management, engineering, production, test, and support personnel. Several customers, including NASA and the DoD, continue to observe that risk management is important to project success and yet lacks rigor in a majority of space activities. This track on Current Trends and Best Practices in aerospace risk management is designed to explore risk management contributions to current and future space programs, including projects from many customer communities (including commercial, NASA, DoD, and ESA among others). Key themes include how practices are applied successfully to programs and organizations, how the risk process influences decision-making and project cost management, and selection of successful tools for quantitative cost and schedule risk analysis. Lessons learned from executing risk management on a wide variety of programs will be presented to illustrate implementation of success-oriented risk processes. One page abstracts for the purpose of reviewing are due by March 10, 2004.

For more information: <http://www.icseng.info/strm.htm>

3. Computer Infrastructure for Systems Biology:

The special session's goal is to bring forth ideas and collaborations among industrial and academic bioinformaticians, biocomputing professionals, data

analysts, and system biologists to facilitate systems biology research and findings. Both research papers (6 pages, IEEE Proceedings format) and poster papers (2 pages) are solicited to explore case histories of building and maintaining IT infrastructures that support advanced biological research. Both industrial and academic contributions are welcome.

Systems Biology is an emerging field that seeks to analyze disparate forms of biological data with an aim of uncovering the function and interaction of the underlying biological systems. It is characterized by voluminous and heterogeneous data, incomplete data sets, low data signal/noise ratios, and extreme difficulties in precisely reproducing experimental conditions. These drawbacks are offset by the profound interest in the field by the Pharmaceutical and Biotechnology industries and by the illumination of biological research in general.

We welcome papers/presentations that examine fresh perspectives and profound experiences in the research and development of computer systems enabling systems biology. Topics of interests include (but are not limited to): Microarray Data Analysis, Functional Imaging and Pattern Recognition, Biological database integration and knowledge representation, Ontologies and semantic web systems for biology, Biomedical literature text mining, Micro–surgery and micro–manipulation, Application of nanotechnology to biological systems, Protein–protein interactions, Proteomics, Protein–small molecule interactions, Metabolic and Genetic Pathways, Visualization of complex data relationships, Biological data tracking and labelling, Clinical Informatics, Laboratory Information Management Systems, Measuring cellular metabolism and cellular signalling.

For more information: <http://bio.informatics.iupui.edu/bio-05/>

#### Submissions:

We invite you to submit a one page abstract for the purpose of reviewing by March 10, 2005. Accepted authors will be invited to submit a full paper (6 pages maximum limit) for presentation. All abstracts are to be submitted in PDF, postscript or MS word version electronically. For more information on submissions refer to: <http://www.ee.unlv.edu/~selvaraj/icse05/submission/>. Please follow the ICSEng'05 guidelines for more information on submission. Submission implies the willingness of at least one of the authors to register and present the paper. All abstracts will be reviewed by two independent referees.

#### Speal Poster Session:

ICSEng'05 will include a special poster session devoted to recent work and work–in–progress. Abstracts are solicited for this session (2 page limit) in camera ready form, and may be submitted up to 30 days before the conference date. They will not be refereed and will not be included in the proceedings, but will be distributed to attendees upon arrival. Students are especially encouraged to submit abstracts for this session.

#### Important Dates:

Abstracts due: March 10, 2005

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Contact:

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