The 11th IEEE International Conference on Information Reuse and Integration

IRI-2010
Sponsored by:
The IEEE Systems, Man and Cybernetics Society

August 4-6, 2010

Tuscany Suites & Casino
Las Vegas, USA

Society for Information Reuse and Integration (SIRI)

http://www.sis.pitt.edu/~iri2010/

The increasing volumes and dimensions of information have dramatic impact on effective decision-making. To remedy this situation, *Information Reuse and Integration* (IRI) seeks to maximize the reuse of information by creating simple, rich, and reusable knowledge representations and consequently explores strategies for integrating this knowledge into legacy systems. IRI plays a pivotal role in the capture, representation, maintenance, integration, validation, and extrapolation of information; and applies both information and knowledge for enhancing decision-making in various application domains. This conference explores three major tracks: information reuse, information integration, and reusable systems. Information reuse considers optimizing representation methodologies; information integration studies strategies for creatively applying models in novel domains; and reusable systems focus on ontological opportunities for deploying models and corresponding processes.

The IEEE IRI conference serves as a forum for researchers and practitioners from academia, industry, and government to present, discuss, and exchange ideas that address real-world problems with real-world solutions. The conference feature contributed and invited papers. Theoretical and applied papers are both included. The conference program will include special sessions, open forum workshops, and keynote speeches. A forum will be conducted with the intent of bridging IRI and Systems of Systems and why the future of intelligent computing - including computing applications - will lie at the juxtaposition of these two topical areas. The conference includes, **but is not limited to**, the areas listed below:

- Large Scale Data and System Integration
- Component-Based Design and Reuse
- Unifying Data Models (UML, XML, etc.) and Ontologies
- Database Integration
- Structured/Semi-structured Data
- Middleware & Web Services
- Reuse in Software Engineering
- Data Mining and Knowledge Discovery
- Sensory and Information Fusion
- Reuse in Modeling & Simulation
- Automation, Integration and Reuse across Various Applications
- Information Security & Privacy
- Survivable Systems & Infrastructures

- AI & Decision Support Systems
- Heuristic Optimization and Search
- Knowledge Acquisition and Management
- Fuzzy and Neural Systems
- Soft Computing
- Evolutionary Computing
- Case-Based Reasoning
- Natural Language Understanding
- Knowledge Management and E-Government
- Command & Control Systems (C4ISR)
- Human-Machine Information Systems
- Space and Robotic Systems
- Biomedical & Healthcare Systems
- Homeland Security & Critical Infrastructure Protection

- Manufacturing Systems & Business Process Engineering
- Multimedia Systems
- Service-Oriented Architecture
- Autonomous Agents in Web-based Systems
- Information Integration in Grid Computing Environments
- Information Integration in Mobile Computing Environments
- Information Integration in Ubiquitous Computing Environments
- Systems of Systems
- Semantic Web and Emerging Applications
- Information Reuse, Integration and Sharing in Collaborative Environments

Instructions for Authors:

Papers reporting original and unpublished research results pertaining to the above and related topics are solicited. Full paper manuscripts must be in English of length 4 to 6 pages (using the IEEE two-column template). Submissions should include the title, author(s), affiliation(s), e-mail address(es), tel/fax numbers, abstract, and postal address(es) on the first page. Papers should be submitted at the conference web site: http://www.sis.pitt.edu/~iri2010/. If web submission is not possible, manuscripts should be sent as an attachment via email to either of the Program Chairs (mailing address available on the conference website) on or before the deadline date of **April 16, 2010 [extended]**. The attachment must be in .pdf (preferred) or word.doc format. The subject of the email must be "IEEE IRI 2010 Submission."

Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Authors should certify that their papers represent substantially new work and are previously unpublished. Paper submission implies the intent of at least one of the authors to register and present the paper, if accepted.

Important Dates

January 24, 2010	Workshop/Special session proposal
April 16, 2010	Paper submission deadline **[extended]**
May 31, 2010	Notification of acceptance **[extended]**
June 18, 2010	Camera-ready paper due
June 18, 2010	Presenting author registration due
July 30, 2010	Advance (discount) registration for general public and other co-author
July 30, 2010	Hotel reservation (special discount rate) closing date
August 4-6, 2010	Conference events

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