

**The 12th IEEE International Conference on Information
Reuse and Integration (IEEE IRI-2011)
Tuscany Suites & Casino, Las Vegas, USA**

August 3-5, 2011

<http://www.sis.pitt.edu/~iri2011/>

Given the emerging global Information-centric IT landscape that has tremendous social and economic implications, effectively processing and integrating humongous volumes of information from diverse sources to enable effective decision making and knowledge generation have become one of the most significant challenges of current times. 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 systems and applications. 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 explores theory and practice of optimizing representation; information integration focuses on innovative strategies and algorithms for applying integration approaches in novel domains; and reusable systems focus on developing and deploying models and corresponding processes that enable Information Reuse and Integration to play a pivotal role in enhancing decision-making processes in various application domains.

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. Theoretical and applied papers are both included. The conference program will include special sessions, open forum workshops, panels and keynote speeches.

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

Best Paper Award:

Starting this year, IEEE IRI will be presenting a Best Paper award. The best paper will be selected by separate committee and will be the one that reports the most novel and promising research work that has a high potential impact in the real world.

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. The online submission site is:

<https://www.easychair.org/account/signin.cgi?conf=ieeeri2011>. If web submission is not possible, please contact the program co-chairs for alternate arrangements. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Paper submission implies the intent of at least one of the authors to register and present the paper, if accepted.

Important Dates:

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|----------------|--------------------------------------|
| March 28, 2011 | Submission of abstract (Recommended) |
| April 5, 2011 | Paper submission deadline |
| May 14, 2011 | Notification of acceptance |
| May 28, 2011 | Camera-ready paper due |
| May 28, 2011 | Presenting author registration due |

June 30, 2011 Advance (discount) registration for general public and other co-author
July 15, 2011 Hotel reservation (special discount rate) closing date
August 3-5, 2011 Conference events

Keynote Speakers

Prof. Lotfi A. Zadeh, University of California Berkeley
Prof. Elisa Bertino, Purdue University

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