



IRI-2007

Sponsored by:
The IEEE Systems, Man and
Cybernetics Society

The 2007 IEEE International Conference on Information Reuse and Integration

August 13-15,
2007



Hilton Hotel,
Las Vegas, USA

<http://www.sis.pitt.edu/~iri07/>

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With rapidly increasing volumes of information in digital forms, we are constantly charged with the challenges of efficiency in information usage and knowledge extraction. *Information Reuse and Integration* (IRI) seeks to maximize the availability of information and creation of knowledge, and to reuse these information and knowledge in addressing new issues. IRI plays a pivotal role to capture, maintain, integrate, validate, extrapolate, and apply both information and knowledge to augment decision-making capacity in 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. The IEEE IRI will feature contributed as well as invited papers. Theoretical and applied papers are both included in this call. The conference program will include special sessions, open forum workshops and keynote speeches. Several funding agency program directors - including NSF, ONR, et al. - will present an open panel discussion entitled "*Funding Opportunities in Information Reuse and Systems Engineering*".

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 Environment
- Information Integration in Mobile Computing Environment
- Information Integration in Ubiquitous Computing Environment
- 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/~iri07/>. 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 13, 2007 PDT**.

The attachment must be in .pdf (preferred) or word.doc format. The subject of the email must be "IEEE IRI 2007 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. Authors of selected papers that are also presented at the conference will be invited to submit expanded versions of their papers for review for publication in an approved special issue of the IEEE SMC Transactions, part C, on IRI to be published in 2008.

Important Dates

March 1, 2007	Workshop/Special session proposal
April 13, 2007	Paper submission deadline (FIRM)
April 29, 2007	Notification of acceptance
June 15, 2007	Camera-ready paper due
June 22, 2007	Presenting author registration due
July 15, 2007	Advance (discount) registration for general public and other co-author
July 31, 2007	Hotel reservation (special discount rate) closing date
August 13-15, 2007	Conference events

Keynote Speech:

Lotfi A. Zadeh
Professor, University of California, Berkeley, USA
*(A New Frontier in Computation—Computation with
Information Described in Natural Language)*

Michael Leyton
Professor, DIMACS, Rutgers University, USA
Mathematical Theory of Reusability