Aim and Scope:
Given the emerging global Information-centric IT landscape that has tremendous social and economic implications, effectively processing and integrating huge 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. This special issue intends to publish high quality papers that present novel techniques and frameworks that maximize the reuse of information by creating simple, rich, and reusable knowledge representations and consequently explore strategies for integrating this knowledge into systems and applications. We are inviting submissions of academic research as well as related application-studies in three major topics: information reuse, information integration, and reusable systems. Information reuse 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.

Topic Areas:
This special issue is intended to provide a summary of research that advances information reuse and integration. The topics of solicited original papers include, but are not limited to, the areas listed below:

* Information Reuse
  - Knowledge Acquisition, Representation, and Management
  - Web-scale data mining and semantic discovery
  - Semantic Web; Sensor Network
  - Decision Support Systems

* Information Integration
  - Large scale Automatic Schema Matching
  - Unifying Data Models (UML, XML, etc.) and Ontologies
  - Information Integration Middleware
  - Information Integration in Grid Computing Environment
  - Information Integration in Mobile Computing Environment
Reusable Systems
- Component-Based Design and Reuse
- Model evolution
- Process Engineering
- Survivable Systems & Infrastructures
- Service-Oriented Architecture and Agent-based Systems

* Novel applications
- Biomedical & Healthcare Systems and Applications
- Multimedia Information Integration and Mining
- Knowledge integration and reuse in E-learning, E-Government, etc.

Forms of Submission:
This special issue will consist of best papers from an open call selected on a competitive basis and invited papers that are extended versions of selected papers accepted at the 13th IEEE International Conference on Information Reuse and Integration (IRI’12). When a submission is based on a previous conference paper, the submission is required to be a substantial revision of the previous publication (30% is generally considered substantial). In such cases, the authors are required to submit a letter detailing the difference between their conference paper and the extended version. All submitted papers and invited papers will go through peer review. If an invited paper does not receive a satisfactory review, the paper will not be included in the special issue.

Submission Instructions:
Manuscripts must be submitted in PDF format to the ISF-Springer online submission system at http://www.editorialmanager.com/isfi/


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