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Track Internet-Based Computing and Systems (IBCS)
SITIS 2012

The 8th International Conference on
SIGNAL IMAGE TECHNOLOGY & INTERNET BASED SYSTEMS
November 25 - 29, 2012 – SORRENTO – Naples - Italy
(Sponsored by IEEE, ACM, IFIP – pending)
<http://www.sitis-conf.org/>

The SITIS conference is dedicated to research on the technologies used to represent, share and process information in various forms, ranging from signal, image, and multimedia data to traditional structured data and semi structured data found in the web. The focus of the track on Internet Based Systems and Computing is on emerging and novel concepts, architectures and methodologies for information management. Novel architectures are being proposed to allow resource sharing and distributed processing of data with increasing complexity. Peer to peer computing, mobile information systems, semantic based applications, and decision support systems are a few examples of these applications and systems.

The Topics of interest include but not limited to:

*** Data semantics**

- Multiple Representation
- Ontologies
- Conceptual Data Modeling
- Knowledge Representation and Reasoning
- Metadata
- Evolution and Change
- Web Semantics and Semi Structured Data
- Semantic Caching
- Data Warehousing and Semantic
- Semantics in Data Visualization
- Semantic Services for Mobile Users
- Applications of Semantic-Driven Approaches

*** Web-Centric Systems**

- Semantic Web and Web Service
- Web Services and Service Computing
- Semantics of web services Compositions
- Hypermedia and Adaptation
- E-Commerce and E-Learning
- Data Mining Methods and Web
- Machine Learning

*** Advanced Information Systems and Applications**

- Spatial Modeling and Geographical Information Systems (GIS)
- GIS and Sustainable Development
- Environmental GIS
- GIS and Remote Sensing
- Urban GIS
- Spatial, temporal modeling semantics
- Bioinformatics

*** Information System Interoperability**

- Digital Libraries
- Semantic Interoperability and Semantic Mediators
- Ontologies Based Systems
- Contextual Reasoning in Distributed Ontologies

Emergent semantics

- Context-Dependent Semantics
- Contextual Reasoning in Distributed Ontologies
- Ontologies Based Systems
- Contextual Reasoning in Distributed Ontologies
- Context-Dependent Semantics
- Communication in Multi-Agents Systems
- Emergent Semantic Interoperability in Large-Scale Systems
- Emergent Semantics in Content Retrieval Systems

Cooperative information and Distributed Systems

- Information Sharing
- Grid Applications
- Peer To Peer Computing and Applications
- Knowledge and Semantic Grid
- Semantics Of Peer Data Management Systems
- Mobile Information Systems and Computing

Multimedia and application

- Image and Video Databases
- Image and Video Indexing and Retrieval
- Emergent Semantics in Content Retrieval Systems
- Semantics and Meta Data in Multimedia Systems
- Content-Based Indexing, Search, and Retrieval of Retrieval
- Multimedia Data Modeling and Visualization
- Tools, Benchmarks, Evaluation Protocols and Standards

Information security

- Security Modeling and Access Control Protocol
- Intrusion Avoidance, Detection, and Response
- Web Security and Supporting Systems Security
- Denial of Service: Attacks and Countermeasures
- Intellectual Property Protection
- Fundamental Services on Network and Distributed Systems
- Security and Privacy for Emerging Technologies
- Trust based systems

Submission and publication

The conference will include keynote addresses, tutorials, and regular and workshop sessions. SITIS'12 invites submission of high quality and original papers on the topics listed above. All submitted papers will be peer-reviewed by at least two reviewers for technical merit, originality, significance and relevance to track topics. Papers must be up to 8 pages and follow IEEE double columns publication format. Accepted papers will be included in the conference proceedings and published by IEEE Computer Society and referenced in IEEE explore and major indexes

Important dates

- * Paper Submission: September 03, 2012
- * Acceptance/Reject notification: September 25, 2012
- * Camera ready: October 07, 2012
- * Author registration: October 15, 2012

Track Chairs

Giandomenico Spezzano, ICAR CNR, Italy
William I. Grosky, University of Michigan-Dearborn, USA

General Chair

Ernesto Damiani, Università degli Studi di Milano, Italy

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