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**The 13th International Conference on SIGNAL IMAGE TECHNOLOGY &  
INTERNET BASED SYSTEMS (SITIS-2017)**

Jaipur, India, 04 December – 07 December 2017

<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. SITIS spans two inter-related research domains that increasingly play a key role in connecting systems across network centric environments to allow distributed computing and information sharing. SITIS 2017 aims to provide a forum for high quality presentations on research activities centered on four main tracks:

\*\*\*\* Track on Signal Image & Vision Technologies (SIVT)

The focus of the "Signal Image & Vision Technologies" (SIVT) track is on recent developments in digital signal processing and pays particular attention to evolutions in audiovisual signal processing, analysis, coding and authentication, and retrieval techniques.

Topics of interest for track SIVT

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Image acquisition, vision  
Image acquisition devices and sensors  
Device calibration, characterization and modeling  
Image and video coding and compression  
Multimodal and multi-sensor models  
Image processing and analysis  
Image filtering, restoration, enhancement  
Computational geometry  
Signal processing  
Wavelets and multirate signal processing  
Spectral analysis  
Remote sensing  
Document image processing and analysis  
Image/video coding and authentication

\*\*\*\* Track on Multimedia Information Retrieval and Application (MIRA),

The focus of the "Multimedia Information Retrieval and Application" (MIRA) track is on emerging modeling, representation and retrieval techniques that take into account the amount, type and diversity of multimedia information accessible in distributed computing environment.

Topics of interest for track MIRA:

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Multimedia Analysis and Processing  
Multimedia content analysis  
Content-based analysis for (big) multimedia data  
Multimedia data modeling and visualization  
Multimedia coding, compression, and processing  
Multimedia Application for Information Retrieval  
Retrieval and annotation of big multimedia data  
Multimedia networking and communication  
Location based multimedia information retrieval  
Multimedia Systems and Services  
Multimedia systems, services, architecture and implementations  
Distributed multimedia systems  
Multimedia benchmarks, evaluation protocols and standards  
Multimedia security, rights management and forensics  
Social networks, social media and Crowdsourcing

\*\*\*\* Track on Intelligent Web Computing and Applications (I-WeCA),

The focus of the “Intelligent Web Computing and Applications” (I-WeCA) track is on emerging and novel concepts, architectures and methodologies for information management, including the semantic web, big data, and cloud computing. Finally, social networks have grown rapidly in size and have witnessed a popular expansion to reach billions of users, providing a suitable space for sharing data, interacting with other users and forming communities with common interests.

Topics of interest for track I-WeCA:

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Data Semantics and Web-Centric Systems  
Ontologies and Conceptual Data Modeling  
Knowledge Representation and Reasoning  
Web Information Retrieval  
Web Tools and Languages  
Semantic Technologies for Mobile Platforms  
Big Data Management and Analytics  
Service-based Computing  
Data and Knowledge as a Services  
Web Services, Mobile services, and Service Computing  
Software Architecture and Middleware  
Security, Privacy, and Trust  
Semantic and Intelligent Services  
Service Discovery, Selection, and Recommendation  
Service Composition and Service-based data Integration

\*\*\*\* Track on Large, Heterogeneous Networks and their Applications (LHNA)

Watching streaming videos, uploading pictures and using cloud-based services will make high demands on mobile networks. At the same time more devices will be connected. Heterogeneous Networks, involving a mix of radio technologies and cell types working together seamlessly, will play an important role to service data hungry smartphones, especially in crowded areas.

The "Large, Heterogeneous Networks and their Applications" (LHNA) track aims at promoting original and unpublished research works covering emerging and novel concepts, technologies, applications for categories related to large and heterogeneous networks. This includes issues related to radio (4/5G) and large wireless networks, traffic management, complex graphs, semantic Web, Big Data, and network security.

Topics of interest for track LHNA

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Large Network Analysis - methods, algorithms, processes, analytic tools

- Graph processing / manipulation
- Usage / implementation of Big Data algorithms
- Avoiding fragmentation of the network graph
- Dynamics and evolution patterns of social networks, trend prediction
- Information broadcasting in Social Networks

Social analytic tools

- Approaches based on Semantic Web Technologies
- Ontologies for managing social networks
- Social networks and cultural information
- Social Network Analysis of Terrorist Networks
- Cyber surveillance for unlawful activities for critical infrastructure protection
- Participatory surveillance

Large/Heterogeneous Networks Security, privacy, trust and ethics

- Privacy-preserving (social) network Analysis
- Network Analysis for security applications
- Network-based security measures and controls

- Network Analysis for identifying and assessing cyber risks
- Information security measures and controls, to help in identifying and assessing cyber risks

#### Architectures and methods for large/heterogeneous network management

- Traffic management
- Self-optimizing approaches
- Self-configuration approaches
- Cell coordination
- Communities discovery and analysis in large scale online and offline social networks
- Traffic prediction for dimensioning multimedia applications
- Frameworks and Methodologies for large scale Collaboration
- Social media search and management in large scale environments
- Collective Awareness Platforms for Social (CAPS) and business innovation

#### Applications of large/heterogeneous networks:

- Human-centric Computing and Cyber-Physical Systems
- Internet of People
- Internet of Things
- Social Computing and Social Internet of Things
- Mobile Network and Behavior Analysis
- Internet of Sensing, Thinking and Creation
- Internet of Swarm Intelligence and Games
- Context-aware service discovery and recommendation
- Ontologies for managing social/large networks
- Large Scale Ontologies Matching and Mapping
- Crowd Sensing, Sourcing, Intelligence and Wisdom
- Biometric Sensors and Identifications
- Brain Information Sensing and Processing
- Brain-Computer Interface/Brain-Machine Interface
- Internet of Brains and Lives
- Wearable Computing and Implant Technology
- Personal/Body Network and Near Field Communication
- Affective Computing, Ubiquitous Social Computing
- Smart Healthcare
- Deep Learning for IoS and Urban Computing

More tracks and conference details can be found on the following web site: <http://www.sitis-conf.org>

#### Important dates

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Submission deadline: August 27, 2017

Acceptance/Reject notification: October 3, 2017

Camera-ready: October 17, 2017

Author Registration: October 19, 2017

#### Submission and publication

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Papers must be up to 8 pages and follow IEEE double-column format. All papers accepted for presentation at the main tracks and workshops will be included in the conference proceedings, which will be published by IEEE Computer Society and referenced in IEEE Xplore Digital Library, DBLP and major indexes. Extended version of selected accepted papers will be considered for publication in major journals.

Submissions will be peer-reviewed by at least 3 peer reviewers. Papers will be evaluated based on relevance,

significance, impact, originality, technical soundness, and quality of presentation. At least one author should attend the conference to present an accepted paper. Paper submission will only be online via SITIS 2017 submission site: <https://easychair.org/conferences/?conf=sitis2017>

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