
The symposium will encompass all aspects of embedded system and image processing techniques which are considered emerging research fields that have recently drawn much attention from computer science and information technology as well as from social sciences and other disciplines.

Big data and smart computing are emerging research fields that have recently drawn much attention from computer science and information technology as well as from social sciences and other disciplines.

**Topic Areas**

The topics of interest include (but are not limited to) the following:

**Big data and cloud computing:**

- Techniques, models and algorithms for big data
- Machine learning and AI for big data
- Web search and information retrieval
- Models and tools for smart computing
- Cloud and grid computing for big data
- Security and privacy for big data
- Smart devices and hardware
- Big data applications: Bioinformatics, Multimedia, Smartphones, etc.
- Tools and systems for big data
- Data mining, graph mining and data science
- Infrastructure and platform for smart computing
- Big data analytics and social media
- Hardware/software infrastructure for big data
- Mobile communications and networks
- Smart location-based services

**Embedded Systems:**

Power/Thermal Aware Design Issues  
Fault Tolerance and Security  
Sensor-based Systems and Applications  
(Heterogeneous) Multi-Core Embedded Systems  
Operating Systems and Scheduling  
Embedded Software and Compilers
Embedded Systems and Design Methods for Cyber-Physical Systems
Reconfigurable Computing Architectures and Software Support
Embedded System Architectures
Ubiquitous and Distributed Embedded Systems and Networks

**Image Processing:**

- Image Acquisition & Medical Image Processing
- Pattern Recognition and Analysis
- Visualization
- Image Coding and Compression
- Face Recognition and Super-Resolution Imaging
- Image Segmentation
- Face Recognition
- 3-D and Surface Reconstruction
- 3D and Stereo Imaging
- Analog and Mixed Signal Processing
- Application and Others
- Applications (Biomedical, Bioinformatics, Genomic, Seismic, Radar, Sonar, Remote Sensing, Positioning, etc.)
- Array Signal Processing
- Audio/Speech Processing and Coding
- Digital and Mobile Signal Processing
- Statistical and Optical Signal Processing
- Data Mining Techniques
- Motion Detection
- Content-based Image Retrieval
- Video Signal Processing

**Organizers:**

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