Call for Papers

The IEEE Visual Communications and Image Processing (IEEE VCIP) Conference, sponsored by the IEEE Circuits and Systems Society, IEEE Malta Section and by the University of Malta, will be held in Valletta, the capital city of the Historical Malta, during December 7-10, 2014.

Since 1986, VCIP has served as a premier forum in SPIE for the exchange of fundamental research results and technological advances in the field of visual communications and image processing. The 2014 edition will be the fourth time that VCIP will be held under the auspices of the IEEE. VCIP 2014 shall inherit the tradition of previous conferences in providing fertile ground for leading engineers and scientists from around the world to escalate collaboratively the research frontiers within these and related areas. Original and unpublished work relevant to, but are not limited to, the following topics are hereby solicited.

Emerging Techniques for Next Generation Video/Image Coding
- Content and context-adaptive coding techniques
- High efficiency video coding
- Joint codec optimization
- Parallel-friendly coding algorithms
- Perceptual coding and quality assessment
- Non-traditional coding techniques
- Representation and analysis of visual signals

Advanced Techniques for 3D Videos
- Representation, analysis and coding of 3D scenes
- Multi-view video processing and coding
- 3D videos and free viewpoint TV
- 2D to 3D video conversion
- Graphics representations and content creation

Visual Communications
- Video streaming and networking systems
- Internet video and QoS issues
- Video on demand and live video services
- Wireless and broadband videos
- Secure and robust video transmissions

Systems and Techniques for Human Interaction
- Futuristic human-machine interfaces
- Multimodal recognition for mixed reality
- Natural image to 2D/3D virtual translation
- Display design for mixed reality
- Virtually real and mixed reality applications
- Biomedical imaging
- Mobile visual search

Embedded Systems and Architecture Implementations
- Concurrent algorithm/architecture optimization
- Embedded software on DSP, ASIP, VLIW, multi-core CPU, GPU, etc
- Architecture based design on VLSI, FPGA, reconfigurable architectures, SoC, etc

Cloud Multimedia Systems, Applications and Services
- Infrastructure for media storage/ distribution & computing
- Performance metrics for multimedia processing in clouds
- Large-scale multimedia content processing and analysis
- Complex semantic multimedia computing in clouds
- Mobile applications and services over clouds

Tutorial and Special Session Proposals: Researchers, developers, and practitioners from related communities are invited to submit proposals for organizing tutorials and special sessions on various emerging topics described above. Tutorials will be held on Sunday, December 7, 2014. Proposals must include title, outline, contact and biography information of the presenter, and a short description of the material to be distributed. Special session proposals must provide title, rationale, contact and biography information of the organizers, and a list of possible papers with tentative title and abstract. Special session papers will be regularly reviewed.

All Papers must be submitted through Microsoft Content Management System following the IEEE format. Papers accepted for regular and special sessions must be registered and presented to be included in the proceedings that will be submitted in the IEEE Xplore® package. Awards will be given to a number of papers with best quality. Please visit http://www.um.edu.mt/events/vcip2014 for additional information regarding paper and proposal formatting instructions and submission details.

Important Dates

| Submission of Proposals for Tutorial and Special Session | 28 March, 2014 | 15 April, 2014 |
| Acceptance Notification of Tutorial and Special Session Proposals | 11 April, 2014 | 29 April, 2014 |
| Submission of Papers for Regular, Demo and Special Sessions | 26 May, 2014 | 15 June, 2014 |
| Acceptance Notification | 24 August, 2014 | 5 September, 2014 |
| Submission of Camera Ready Paper | 10 September, 2014 | 30 September, 2014 |