

# Call for Papers

## *Media Representation, Processing and Quality Assessment*

### IEEE International Symposium on Multimedia (ISM2015)

Miami, Florida, December 14-16, 2015

<http://www.ieee-ism.org>

#### Area Co-chairs

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#### Scope

The Media Representation, Processing and Quality Assessment area will focus on concepts, tools and methods related to the representation, processing and quality assessment of any form of media, notably text, speech, audio, image, video, graphics, social data, haptics data, olfactory data and data collected from various sensors. Topics for submission include but are not limited to:

- Analysis tools for any media, notably segmentation, tracking and localization
- Representation models and tools for any media, notably audio, image and video
- Scalable and error resilient representation for any media, notably audio, image and video
- 3D video processing and representation
- Plenoptic visual data representation, processing, coding and rendering
- Perceptually driven media processing and representation
- Media coding standards
- Multimodal coding
- Feature-based representation and processing for any media, notably audio, image and video
- Subjective and objective quality assessment metrics and methods
- Quality of experience related tools and methods
- Network driven media processing and representation
- Cloud media processing and representation
- Virtual/augmented/mixed reality data processing and representation

#### Submission Guidelines

Please follow the guidelines on the SUBMISSIONS page of the conference website at <http://www.ieee-ism.org>.

#### Short Biography of Area Co-Chairs

##### Siwei Ma

*Siwei Ma received the B.S. degree from Shandong Normal University, Jinan, China, in 1999, and the Ph.D. degree in computer science from the Institute of Computing Technology, Chinese Academy of Sciences, Beijing, China, in 2005. From 2005 to 2007, he held a postdoctorate position with the University of Southern California, Los Angeles. He is currently a Professor with the Institute of Digital Media, School of Electronic Engineering and Computer Science, Peking University. His research interests include video processing, coding and transmission. He has published more than 150 papers. As a co-author, he got the best paper award in SPIE VCIP 2011. He serves an Associate Editor of Journal of Visual Communication and Image Representation. He has been an active contributor to ISO/MPEG and ITU-T video coding standards including H.264/MPEG-4 AVC, H.265/HEVC and 3D-HEVC.*

##### Fernando Pereira

*Fernando Pereira (F'08) received the B.S., M.Sc., and Ph.D. degrees in electrical and computer engineering from Instituto Superior Técnico (IST), Universidade de Lisboa, Lisbon, Portugal, in 1985, 1988, and 1991, respectively. He is a Professor with the Electrical and Computer Engineering Department, Instituto de Telecomunicações, IST, where he is responsible for the participation of IST in many national and international research projects. He is a Project Evaluator and Auditor for various*

organizations. He has authored more than 200 papers. His research interests include video analysis, processing, coding and description, and interactive multimedia services. Dr. Pereira was an IEEE Distinguished Lecturer in 2005. He has been an Associate Editor of IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS FOR VIDEO TECHNOLOGY, IEEE TRANSACTIONS ON IMAGE PROCESSING, IEEE TRANSACTIONS ON MULTIMEDIA, and IEEE SIGNAL PROCESSING MAGAZINE. Since 2013 he has been the Editor-in-Chief of IEEE JOURNAL OF SELECTED TOPICS IN SIGNAL PROCESSING. He has been a member of the IEEE Signal Processing Society Image Technical Committees on Video and Multidimensional Signal Processing, and Multimedia Signal Processing Technical Committees, and of the IEEE Circuits and Systems Society Technical Committees on Visual Signal Processing and Communications, and Multimedia Systems and Applications. He has been a Scientific and Program Committee Member of many international conferences. He has been participating in the work of ISO/MPEG for many years, particularly, the Head of the Portuguese delegation, the Chairman of the MPEG Requirements Group, and chairing many ad hoc groups related to the MPEG-4 and MPEG-7 standards. He is a EURASIP Fellow for contributions to digital video representation technologies and standards. He is an Area Editor of Signal Processing: Image Communication.