



## 2013 International Conference on Robot, Vision and Signal Processing

December 10-12, 2013 Kitakyushu, Japan

RVSP 2013 is the Second International Conference on Robot, Vision and Signal Processing. The conference is technically co-sponsored by Waseda University, Japan, Harbin Institute of Technology, China and Kaohsiung University of Applied Science, Taiwan with the website <http://bit.kuas.edu.tw/~rvsp13>. The conference intended as an international forum for the researchers and professionals in all areas of Robot, Vision and Signal Processing. Robot exhibition and competition programs will also be held during this conference period. Proceedings of RVSP 2013 will be published by Conference Publishing Services and will be submitted for indexing to IEL INSPEC, EI (Compendex), Thomson ISTEP. We invite submissions of papers presenting a high-quality original research and development for the conference tracks: (1) Robot (2) Vision (3) Signal Processing

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 Jar-Ferr Yang, National Cheng Kung Univ., Taiwan

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SCOPE: Topics of interest include, but are not limited to:

#### Track I: ROBOT

Micro robots and micro-manipulation  
 Search, rescue and field robotics  
 Medical robots and bio-robotics  
 Space and underwater robots  
 Tele-robotics and mobile robotics  
 Dexterous manipulation and multi-robot systems  
 Modeling and identification  
 Visual servoing  
 Robot sensing and data fusion  
 Perception systems  
 Localization, navigation and mapping  
 Computational intelligence in robotics  
 Sensor networks  
 Modeling of control system  
 Intelligent control, motion control and neuro-control  
 Robust control  
 Adaptive control, fuzzy control and Control applications  
 Simulation tech. and automation system in industry

#### Track II: VISION

Active and robot vision  
 Vision theory and algorithm  
 Vision-based object recognition  
 Vision-based guidance of Robots  
 Segmentation and feature extraction of vision images  
 Encoding and transmission of vision images  
 Image capture and processing of visual scene  
 Identity authentication  
 Human detection of the visual scene  
 2D and 3D scene understanding  
 Event and scene recognition, retrieval and indexing  
 Motion and tracking

<http://bit.kuas.edu.tw/~rvsp13>

#### Important Dates

- The deadline for paper submission: September 15, 2013
- The date for notification: October 15, 2013
- The date for camera-ready paper submission: October 25, 2013

The Conference Proceedings will be published by Conference Publishing Services

Video analysis and annotation  
 Human-machine interaction  
 Computational and architectural aspects of human vision  
 Stereo vision and structure from motion  
 Matching correspondence and flow  
 Model-based object tracking in video  
 Tracking of people and surveillance  
 Retrieval of 3D objects from video sequences  
 Detecting 3D objects using patterns of motion and appearance  
 Image-based modeling and 3D reconstruction  
 Virtual and augmented reality  
 Vision-based medical applications  
 Vision-based biomedical applications  
 Model-based image and shape analysis  
 Video games  
 Computational photography  
 Three-dimension display of the visual scene

#### Track III: SIGNAL PROCESSING

Signal analysis and visualization  
 Signal mining and data fusion  
 Signal control (wired & wireless)  
 Signal transmission and receiving (wired & wireless)  
 Source coding and channel coding  
 System engineering and development for multimedia systems  
 Multimedia sensing and sensory systems  
 Multimedia networking and communication techniques (wired & wireless)  
 Multimedia databases and retrievals  
 Multimedia/multimodal signals interpretation and automatic recognition  
 Multimedia hyperlink techniques and applications