

## ICBISP 2017 Conference Programme

Saturday, 13 May 2017	
08:30—09:30	<b>Registration</b>
09:30—09:45	<b>Chair's welcome and introduction</b> Professor Qingming Luo, Vice-president of Huazhong University of Science and Technology
09:45—10:00	<b>British Consulate-General Wuhan representative welcome speech</b>
10:00—10:15	<b>IET representative welcome speech</b> Joseph Du, IET China country manager
10:15—10:30	<b>Wuhan Bio-lake representative welcome speech</b>
10:30—11:00	<b>Poster Session and Refreshments</b> <b>VIP Group Photo</b>
11:00—11:20	<b>Keynote speech from Dr Dimitrios Makris</b> Associate Professor & Acting Director of Post Graduate Research Studies, Faculty of Science, Engineering and Computing, Kingston University, London <i>Speech title: Compact Representation of Multivariate Sequences using Structural Laplacian Eigenmaps</i>
11:20—11:40	<b>Keynote speech from Professor Guozhen Liu</b> ARC Centre of Excellence in Nanoscale Biophotonics (CNBP), Macquarie University, Australia <i>Speech: An optical fibre based ex-vivo device for detection of cytokines</i>
11:40—12:00	<b>Keynote speech from Professor Tianzai Jiang</b> <b>National Laboratory of Pattern Recognition, Institute of Automation Chinese Academy of Sciences</b> <i>Speech: The Brainnetome Atlas and its Applications in Cognition and Brain Diseases</i>
12:00—12:20	<b>Keynote speech from Professor Qingguo Xie</b> <b>Huazhong University of Science and Technology, China</b> <i>Speech: All-Digital PET Everywhere</i>
<b>12:20—13:30 Poster Session and Lunch</b>	
13:30--13:45	<b>A1 (0008)</b> <b>Understanding and Assessing Low-Light Cameras for Super-Resolution Localization Microscopy</b> Y J Wang, Z N Zhang, M T Li, L C Li, T W Quan, Z L Huang
13:45--14:00	<b>A2 (0009)</b> <b>Classifying Nodule from Normal Thyroid Tissue Based on Attenuation Value on Non-enhancement CT Images</b> Yihong Chen, Chenbin Liu, Wenxian Peng, Shunren Xia
14:00--14:15	<b>A3 (0017)</b> <b>Hessian matrix-based structure tensor analysis for fiber enhancement and direction encoding</b>

	Shangbin Chen, Xiangning Li, Anan Li, Jie Peng, Hui Gong, Qingming Luo
14:15--14:30	<b>A4 (0030)</b> <b>Point-spread-function analysis for ultrasound computed tomography with ring array</b> X Y fang, M Y Ding, M Yuchi
14:30--14:45	<b>A5 (0044)</b> <b>A New Statistical-Based Algorithm for Medical Image Feature Extraction</b> Kuo-Kun Tseng, Jiaqian Li, Lantian Wang Wang
14:45--15:00	<b>A6 (0053)</b> <b>Robust Medical Image Authentication using 2-DStationary Wavelet Transform and Edge Detection</b> Ramanand Singh, Paresh Rawat, Piyush Shukla
15:00--15:15	<b>A7 (0058)</b> <b>A Review and Comparative study of Speckle Noise reducing Filters for Carotid Artery Ultrasound Images</b> Latha Subbiah, Dhanalakshmi Samiappan
15:15--15:45	<b>Poster Session and Refreshments</b>
15:45--16:00	<b>A8 (0064)</b> <b>Reinforced source camera identification using non-decimated wavelet transform</b> A R Soobhany, A Sheikh Akbari, Z C Schreuders
16:00--16:15	<b>A9 (0074)</b> <b>Design and implementation of a fast and efficient secure image transposal algorithm through pixel color transformations using 16*16 quantization table</b> vijay bhandari
16:15--16:30	<b>A10 (0087)</b> <b>Colour Constancy For Non-Uniform Illuminant using Image Textures</b> Md Hussain, Akbar Akbari, Bruhanth Mallik
16:30--16:45	<b>A11 (0088)</b> <b>Patents Analysis on Magnetic Resonance Imaging and Data Processing Technology</b> QP Ding, RY Luo, QQ Tong, HJ He, JH Zhong
16:45--17:00	<b>B1 (0042)</b> <b>Dynamic synchronization state discrimination in local field potentials of neuropathic pain</b> H Luo, X Du, Y Huang, S Wang
17:00--17:15	<b>B2 (0048)</b> <b>An acceleration based heuristics algorithm for gait phases detection</b> Yingying Wang, Hui Zhou, Yuanyuan Wang, Hongli Guan, Zhen Huang, Guanglin Li
17:15--17:30	<b>B3 (0049)</b> <b>Research on Ultrasound Beamforming Algorithm Based on GPU Parallel Delay Multiply and Sum Algorithm</b> Ting Su, Dingjie Yao, Dayu Li, Shi Zhang

17:30--17:45	<b>B4 (0073)</b> <b>Real-time envelope detection of ultrasound radiofrequency signals using OpenCV GPU framework</b> Zhuhuang Zhou, Weiwei Wu, Yue Wang, Shuicai Wu, Kebin Jia, Po-Hsiang Tsui
<b>Poster List</b>	
<b>PO001 (0015)</b>	<b>A Tool for 3D reconstruction of neuronal population reconstruction : preliminary results</b> H Zhou, S W Li, Y X Li, T W Quan, A A Li, Q M Luo, S Q Zeng
<b>PO002 (0018)</b>	<b>Automatic classification of neurons based on three-dimensional cytoarchitectonic images</b> X Xu, A Li, H Gong, Q Luo, Y He
<b>PO003 (0020)</b>	<b>3D bilateral filtering applying to de-noise of microscopic brain image stack</b> Y Zhu, A Li, J Peng, H Gong, Q Luo
<b>PO004 (0023)</b>	<b>A Novel Weighted Sparse Representation Denoising Method for X-ray Cardiovascular Angiogram Image</b> Zhenghua Huang, Qian Li, Hao Fang, Tianxu Zhang
<b>PO005 (0028)</b>	<b>A Prototype System for Ultrasound Computer Tomography with Ring Array</b> J J song, S S Wang, L Zhou, Y Peng, M Y Ding, M Yuchi
<b>PO006 (0029)</b>	<b>Distributed Functional Connectivity Impairment in Schizophrenia: A Multi-site Study</b> Yong Yang, Tianzi Jiang
<b>PO007 (0034)</b>	<b>Segmentation of dynamic contrast enhanced micro-CT images for fluorescence molecular tomography reconstruction</b> D M Yan, W H Xie, Z H Zhang, Q M Luo, X Q Yang
<b>PO008 (0050)</b>	<b>A novel approach for centerline extraction of tubular object</b> Fan Zhang, Cheng Wang, Baolin Li, Shoujun Zhou
<b>PO009 (0055)</b>	<b>Improving Image Quality and Convergence Rate of Perona-Malik Diffusion Based Compressed Sensing Reconstruction Using Gradient Correction</b> Ajin Joy, Joseph Suresh Paul
<b>PO010 (0061)</b>	<b>A Novel Composite Filter for Denoising MR Image</b> Shraddha Oza, Kalyani Joshi
<b>PO011 (0062)</b>	<b>Using OpenCV over MATLAB for Implementing Image processing Application on CUDA GPU to achieve better execution speed up</b> Shraddha Oza, Kalyani Joshi
<b>PO012 (0071)</b>	<b>An automated imaging system of wide-view of optical microscopy of pathological tissue</b> Shangbin Han, Jimin Yang, Honglin Wan, Juan Yang
<b>PO013 (0077)</b>	<b>Compressed Sensing of Biomedical Images based on the Sparsity Estimation</b> Yang Senlin, Chong Xin

<b>PO014 (0079)</b>	<b>Normalization method of suppressing excitation noise in fluorescence molecular tomography</b> Lian Lichao, Deng Yong, Xie Wenhao, Yang Xiaoquan, Luo Qingming
<b>PO015 (0080)</b>	<b>Research on image sparse transform based on FPGA</b> Duan Yingni, Yang senlin
<b>PO016 (0081)</b>	<b>Detection on PPG and ECG and fusion estimation of respiration rate based on android platform and wearable watch</b> Z L He, X X Chen, Z Fang, T Y Sheng, S H Xia
<b>PO017 (0082)</b>	<b>Design and Implementation of A Novel Human-Machine Interactive Healthcare System for Visual Reproduction Test</b> A R Qi, W J Li, A N Zheng, L M Tao
<b>PO018 (0083)</b>	<b>An improved method of calculating MTF from PSF based on CT phantom images</b> Libin Liang, Pu Zhang, Hui Ding, Guangzhi Wang
<b>PO019 (0085)</b>	<b>MRI motion artefact mitigation methodology using spin echo pulse sequence on A4.7 T scanner</b> A R Farias, M F D Moraes, H A Magalhaes, E M A M Mendes
<b>PO020 (0086)</b>	<b>Extraction of Visual Evoked Potential using Improved Wiener Filter</b> D C Liu, B Sun, C Q Chang, J F Yang, J J Wang, N Hu

**Sunday, 14 May 2017**

**Technical visit to Optics Valley  
&  
Wuhan National Laboratory for Optoelectronics**