

ICCH2012 PROGRAM

(17-18 December, 2012)

Day 1 (17 December, 2012)	
8:30 –	ICCH2012 Registration
9:00 – 9:10am	Opening Address <i>ICCH2012 General Chair Prof. David Zhang</i>
9:10 – 10:10am	ICCH2012 Invited Speech: <i>Computer-aided Innovations in Biomedical Ultrasound Imaging</i> <i>Prof. Yongping Zheng,</i> <i>Acting Head of Interdisciplinary Division of Biomedical Engineering,</i> <i>The Hong Kong Polytechnic University</i>
10:10 – 10:30 am	Morning Tea Break
10:30 – 12:00 pm	Session 1: New Healthcare Systems (Session Chair: <i>Prof. Tuan Pham</i>)
10:30 – 10:45 am	A Medical Image Navigating System with iPad (<i>Kenan Niu, Nan Bao, and Yan Kang</i>)
10:45 – 11:00 am	Toward the Development of a Cost-Effective e-Depression Detection System (<i>Tuan D. Pham, Truong Cong Thang, and Mayumi Oyama-Higa</i>)
11:00 – 11:15 am	Development of an Emergency Medical Service System Based on Wireless Networks and Real-Time Traffic Information (<i>Tan-Hsu Tan, Munkhjargal Gochoo, Sukhbaatar Bilgee, Ching-Su Chang, Jin-Jia Hu, Yung-Fu Chen, John Y. Chiang, Yung-Fa Huang, and Ming-Hui</i>)
11:15 – 11:30 am	Monitoring Diabetic Patients by Novel Intelligent Footwear System (<i>Lin Shu, Kai Ying Mai, Xiao Ming Tao, Ying Li, Wing Cheung Wong, Ka Fai Lee, Siu Leung Yip, Wai Hung Anthony Shum, Wai Lam Chan, and Chi Pang Yuen</i>)
11:30 - 11:45 am	Tumor Clustering based on Hybrid Cluster Ensemble Framework (<i>Zhiwen Yu, Jane You, Hantao Chen, Le Li, and Xiaowei Wang</i>)
11:45 – 12:00 pm	Healthcare for Patients with Interstitial Cystitis/Bladder Pain Syndrome Based on Internet Health Education (<i>Ming-Huei Lee, Huei-Ching Wu, Jen-Yung Lin, Yung-Fu Chen, John Y. Chiang, and Tan-Hsu Tan</i>)
12:15 – 2:00 pm	Conference Lunch (PolyU Staff Restaurant)
2:15 – 3:45 pm	Session 2: Visual Information Analysis for Healthcare (Session Chair: <i>Prof. Xiaoyi Jiang</i>)
2:15 – 2:30 pm	Straight from RF to 3D Ultrasound Image Reconstruction (<i>Loxlan Wesley Kasa, and Mingyue Ding</i>)
2:30 – 2:45 pm	Imaging of in vivo Carotid Artery with Time Using Ultrasonography and Sclerosis (<i>Yasunari Yokota, Fumio Nogata, Yoko Kawamura, and Hiroyuki Morita</i>)
2:45 – 3:00 pm	An Improved Chan–Vese (CV) Model for Lumen Segmentation of Carotid Artery (<i>Yang Lu, Gang Xu, Fulin Zhang, and Kehong Yuan</i>)
3:00 – 3:15 pm	GPU-based Fusion Method for 3D Electrophysiological Data Visualization (<i>Lei Zhang, Kuanquan Wang, Wangmeng Zuo, Yunfeng Wu, and Dongchen Han</i>)
3:15 – 3:30 pm	A 3D Gaze Estimation Method Based on Facial Feature Tracking (<i>Xinbo Zhao, Xiaochun Zou, and Zheru Chi</i>)
3:30 – 3:45 pm	Gait Analysis by Using Tri-Axial Accelerometer of Smart Phones (<i>Guan-Sheng Huang, Chao-Cheng Wu, and Jiannher Lin</i>)

3:45 – 4:00 pm	Afternoon Tea Break
4:00 – 5:15 pm	Session 3: Computer-Aided Detection/Diagnosis (Session Chair: <i>Prof. Fujita Hiroshi</i>)
4:00 – 4:15 pm	Carotid 4D-shape Reconstruction from Multi-cross-sectional B-mode Ultrasonic Moving Images (<i>Fumio Nogata, Yasunari Yokota, Member, and Yoko Kawamura</i>)
4:15 – 4:30 pm	Modeling and Classification of Pancreas Based on SSM and Fractal Tensor (<i>Huiyan Jiang, Xin Wang, Tianjiao Feng, Jingming Liu, Fei Xiang, Benqiang Yang, and Libo Zhang</i>)
4:30 – 4:45 pm	Quantitative Imaging in Diffuse Lung Diseases Using Three-Dimensional CT images (<i>Shoji Kido, Rui Xu, Yasushi Hirano, Hayaru Shouno, Rie Tachibana</i>)
4:45 – 5:00 pm	A new role of preventive care in dentistry by use of computer-aided detection (CAD) system for screening the systemic diseases found in panoramic radiography (<i>H.Fujita, A.Katsumata, T.Hara, C.Muramatsu, T.Hayashi, and T.Kokubo</i>)
5:00 – 5:15 pm	Multiscale Retinal Vessel Segmentation with Precise Width Estimation (<i>Qin Li, Xuejin Li, Changjiang Song, and Jane You</i>)
6:00 -- 8:00 pm	ICCH2012 Banquet (PolyU Staff Restaurant)

Day 2 (18 December, 2012)

9:00 – 10:00am	ICCH2012 Demonstration Session (<i>Dr. Raymond Tong & Prof. Yongping Zheng</i>) -- KineLabs 3D motion software platform using Kinect by <i>Dr. Raymond Tong</i> -- Wearable medical sensors for healthcare by <i>Prof. Yongping Zheng</i>
10:00 – 10:45 am	Session 4: Ultrasound Imaging (Session Chair: <i>Prof. Yongping Zheng</i>)
10:00 – 10:15 am	A Novel Method for Tracking of Muscle Thickness Changes in Ultrasound Image Sequences (<i>Xin Chen, Yanrong Guo, Wanguan Yi, and Qiaoliang Li</i>)
10:15 – 10:30 am	Real-Time Detection of Muscle Thickness Changes during Isometric Contraction from Ultrasonography: A Feasibility Study (<i>Jizhou Li, Yi Lu, Jing-Yi Guo, Yongjin Zhou, and Yong-Ping Zheng</i>)
10:30 – 10:45 am	Automatic Pennation Angle Measurement in Musculoskeletal Ultrasound Image (<i>Guang-Quan Zhou, and Yong-Ping Zheng</i>)
10:45 – 11:00 am	Morning Tea Break
11:00 – 12:45 pm	Session 5: New Techniques for Healthcare (Session Chair: <i>Prof. Rajiv Khosla</i>)
11:00 – 11:15 am	An Efficacious Medical Video Segmentation Approach with a Moving Camera (<i>Xiaochun Zou, Xinbo Zhao, and Zheru Chi</i>)
11:15 – 11:30 am	RFID Applied in Recognition and Identification for Dental Prostheses (<i>Chia-Ke Chang, Yu-Jung Li, and Chih-Cheng Lu</i>)
11:30 – 11:45 am	Motion Correction of PET Data with a Joint Registration Functional for Multi-Modal Data (<i>Michael Fieseler, Fabian Gigengack, Xiaoyi Jiang and Klaus P. Schöfersy</i>)
11:45 – 12:00 pm	The Analysis and Development of Computed 2D Optical Flow Velocity based on Phantom Data (<i>Yan Kang, Han J.W. van Triest, and Fuyu Cai</i>)

12:00 – 12:15 pm	Assistive Robot Enabled Tele-Health Service Model (<i>Rajiv Khosla, and Mei-Tai Chu</i>)
12:15 – 12:30 pm	A Novel e-Nose System for Diabetes Diagnosis (<i>Ke Yan, and David Zhang</i>)
12:30 – 12:45 pm	Analysis of Pulse Waveforms Preprocessing (<i>Dimin Wang, and David Zhang</i>)
12:45 – 2:00 pm	Conference Lunch (PolyU Staff Restaurant)
2:00 – 4:00 pm	Session 6: Machine Learning for Health Informatics (Session Chair: <i>Prof. Dacheng Tao</i>)
2:00 – 2:15 pm	A Spectral Dissimilarity Constrained Nonnegative Matrix factorization based Cancer Screening Algorithm from Hyperspectral Fluorescence (<i>Bo Du, Liangpei Zhang, Dacheng Tao, Nan Wang, and Tao Chen</i>)
2:15 – 2:30 pm	An Intelligent Shoe System: Evaluation of Weight Load Approaches by Gait Analysis (<i>Yanbo Tao, Xinyu Wu, Yong Yang, Huihuan Qian, Chi Zhang, and Yangsheng Xu</i>)
2:30 – 2:45 pm	An Examination of TNM Staging of Melanoma by a Machine Learning Algorithm (<i>Dengyuan Wu, Charles Yang, Stephen Wong, Jon Meyerle, Bowu Zhang, and Dechang Chen</i>)
2:45 – 3:00 pm	Collaborative Annotation of Medical Images via Web Browser for Teleradiology (<i>Hualei Shen, Dianfu Ma, Yongwang Zhao, and Rongwei Ye</i>)
3:00 – 3:15 pm	Unlocking the Complexity of Genomic Data of RMS Patients Through Visual Analytics (<i>Quang Vinh Nguyen, Patricio Alzamora, Nicholas Ho, Mao Lin Huang, Simeon Simoff, and Daniel Catchpoole</i>)
3:15 – 3:30 pm	Laplacian Support Vector Machines for Medical Diagnosis (<i>Caifeng Song, Weifeng Liu, and Yanjiang Wang</i>)
3:30 – 3:45 pm	Particle Swarm Optimization Based Feature Selection in Mammogram Mass Classification (<i>Man To Wong, Xiangjian He, Hung Nguyen, and Wei-Chang Yeh</i>)
3:45 – 4:00 pm	Comparisons of Fiber Clustering Algorithms for DTI Images (<i>Jia Zhang, Fei Dai, Jun Yu, and Zhenming Yuan</i>)
4:00 – 4:30 pm	Lab Visit to PolyU Biometrics Research Center (BRC)