

Detailed Technical Program of 2014 IS 3T-in 3A

Day 1 December 21, 2014 (Sunday)	
14:00~18:00	Registration
18:30~20:00	Welcome Reception
Day 2 December 22, 2014 (Monday)	
08:30~09:00	Registration
09:00~09:30	Opening Ceremony (Chair: Weidong Chen) Welcome speech: Junfa Mao, Dean, School of Electronic, Information and Electrical Engineering, Shanghai Jiao Tong University, China
09:30~10:50	Keynote Speech (Chair: Weidong Chen) When Medical Mechatronics meets Wearable Technology Prof. Ming-yih Lee, Chang Gung University, Taiwan
09:30~10:10	Soft Robotics- the Next Generation of Intelligent Machines Prof. Rolf Pfeifer, Shanghai Jiao Tong University, China
10:10~10:50	
10:50~11:10	Tea Break
11:10~12:10	Leading Talk (Chair: Xiaowei Zhu)
11:10~11:30	Master-Slave Gesture Learning System Based on Functional Electrical Stimulation Dr. Dingguo Zhang, Shanghai Jiao Tong University, China
11:30~11:50	Wearable Sensor System for Human-robot Interaction Prof. Tao Liu, Zhejiang University, China
11:50~12:10	Investigations of AMC and Its Applications for Performance Enhancement and Polarization Rotation of Antenna Arrays Prof. Wenquan Che, Nanjing University of Science and Technology, China
12:10~13:30	Lunch
13:30~14:50	Keynote Speech (Chair: Wenwei Yu)
13:30~14:10	Therapeutic Applications of Electromagnetic Waves Prof. Koichi Ito, Chiba University, Japan
14:10~14:50	Metamaterials-Based Coils in MRI Applications Prof. Zhi Ning Chen, National University of Singapore, Singapore

14:50~15:40	Poster Session & Tea Break (Chair: Yu Qiao)
P1	Physics-based Optimization Design of Broadband Folded Dipole Antennas through Manipulations on Smith Chart Yumei Chang, Nanjing University of Science and Technology, China
P2	A Sematic Map Based Approach for Seamless Interaction between Mobile Service Robot and Human Users Zhixuan Wei, Shanghai Jiao Tong University, China
P3	Evaluation on Heating Performances of Microwave Scalpel for Surgical Operation Kenta Suzuki, Chiba University, Japan
P4	SAR Evaluation of 1.2 GHz Band Wireless Camera Using A Tissue-equivalent Solid Phantom Tetsuya Yoshida, Chiba University, Japan
P5	Dual-band Diversity Antenna for Mobile Phone Diversity Antenna Qing Luo, Southeast University, China
P6	A Multiple-Sucker Manipulator for Intra-Abdominal Underwater Surgery Support Nobuto Tsuchiya, Chiba University, Japan
P7	Application of Visualization of Blood Vessel Based on Visual Feedback in Diagnosis of Vascular Disease Shouren Lan, Shanghai Jiao Tong University, China
P8	Assessment of Development and Growth Patterns of Autosomal Polycystic Kidney Disease of Kidney Using CT Images Yoshihisa Matsunaga, Chiba University, Japan
15:40~17:20	Leading Talk (Chair: Wenquan Che)
15:40~16:00	Priors based Medical Image Segmentation Prof. Xin Yang, Shanghai Jiao Tong University, China
16:00~16:20	Internet of Things for Smart Aging Prof. Wendong Xiao, University of Science and Technology Beijing, China
16:20~16:40	The Development of a Portable and Non-invasive Swallowing Assessment Approach Dr. Wann-Yun Shieh, Chang Gung University, Taiwan
16:40~17:00	Computer Assisted Surgery: Planning, Simulation, Template Guiding, and Navigation Dr. Xiaojun Chen, Shanghai Jiao Tong University, China
17:00~17:20	A Cable-driven Soft Robot for Minimally Invasive Surgery MD. Xiaozhou Wang, Shanghai Jiao Tong University, China
18:00~20:00	Banquet

Day 3 December 23, 2014 (Tuesday)	
09:00~09:40	Keynote Speech (Chair: Zhi Ning Chen)
09:00~09:40	Wireless Medical - An Important Application for IT Technologies - A Case Study for Computer Aided Orthopedic Surgery Prof. Zhihua Wang, Tsinghua University, China
09:40~10:40	Leading Talk (Chair: Zhi Ning Chen)
09:40~10:00	Soft Actuators with Biomedical Applications Dr. Jian Zhu, National University of Singapore, Singapore
10:00~10:20	Image Registration for Analysis of The Interrelation Between Pathological Image and MR Image of Brain Tumor Dr. Takashi Ohnishi, Chiba University, Japan
10:20~10:40	Patient Management-Future of Medical Device Dr. Simon Li, Covidien, China
10:40~11:30	Poster Session & Tea Break (Chair: Yu Qiao)
P1	Needle Tip Detection by Electro-Localization using a Phantom for a Needle Electromyogram Test Simulator Siyu He, Chiba University, Japan
P2	Quantitative Analysis of Prostate Cancer Using Ultrasonic Microscope Hiroaki Sugimoto, Chiba University, Japan
P3	Investigating the Effect of Synchronized Afferent Stimuli on Mirror Therapy Daito Tsujitani, Chiba University, Japan
P4	Detection and Quantitative Measurement Longitudinal Changes in Retinal Images Benzhi Chen, Shanghai Jiao Tong University, China
P5	Optical Flow Based Semi-Automatic Analysis of Ultrasound Images of Muscle Activation Shota Kawamoto, Chiba University, Japan
P6	Mental Workload Evaluation of Sensory Feedback Systems for Prosthetic Application Natsuki Hayata, Graduate School of Engineering, Chiba University, Japan
P7	Miniature Built-in Antenna at Low Frequency Xiaofang Tang, Southeast University, China
P8	A Virtual Simulation and Driver Evaluation Platform for Smart Wheelchairs Li Liu, Shanghai Jiao Tong University, China
11:30~12:10	Leading Talk (Chair: Xin Yang)
11:30~11:50	A Computer-aided Analysis System of Liver Structures with CT

	Dr. Yu Qiao, Shanghai Jiao Tong University, China
11:50~12:10	Effective Microwave Heating for Bile Duct Carcinoma under Metallic Stent Placement Dr. Kazuyuki Saito, Chiba University, Japan
12:10~13:30	Lunch
13:30~15:30	Leading Talk (Chair: Tao Liu)
13:30~13:50	Development of Computer-Aided Diagnosis System to Detect Lesions for Voiding Dysfunction using Cystourethroscopy Dr. Takuro Ishii, Chiba University, Japan
13:50~14:10	Novel Microstrip Bandpass Filter with Multiple Transmission Zeros Using Open/Shorted Stubs Dr. Wenjie Feng, Nanjing University of Science and Technology, China
14:10~14:30	Water-Filled Laparo-Endoscopic Surgery (WaFLES): Update Prof. Tatsuo Igarashi, Chiba University, Japan
14:30~14:50	An Electrical Cylinder Driven Exo-Skeleton Robot Dr. Jian Chen, Chinese Academy of Sciences, China
14:50~15:10	Developing At-home Assistive and Rehabilitative Systems Prof. Wenwei Yu, Chiba University, Japan
15:10~15:30	Application of 3D Printing Technology in Orthopedic Surgery Prof. Dongyun Gu, Shanghai Jiao Tong University, China
15:50~17:20	Lab Tour (Chair: Jingchuan Wang) School of Electronic, Information and Electrical Engineering, Minhang Campus, SJTU
18:30~21:00	Farewell Party
Day 4 December 24, 2014 (Wednesday)	
09:30~11:30	Lab Tour & Discussion (Chair: Dongyun Gu) Med-X Research Institute, and Engineering Research Center of Digital Medicine and Clinical Translation, Xuhui Campus, SJTU
11:30~13:00	Lunch