

Technical Program

Day 1 November 15, 2015 (Sunday)	
Alumni House, Inohana Campus	
14:00 ~ 17:00	Registration
Day 2 November 16, 2015 (Monday)	
Alumni House, Inohana Campus	
8:30 ~ 9:00	Registration
9:00 ~ 9:05	Opening Address from President of Chiba University Prof. Takeshi Tokuhisa
9:05 ~ 9:10	Opening Address from Director-General, Chiba University Hospital Prof. Shuichi Yamamoto
9:10 ~ 9:20	Opening Address from CFME Director Prof. Tatsuo Igarashi
9:20 ~ 10:00	Keynote Speech (Chair: Prof. Tatsuo Igarashi)
	Disinfection of Wounds by Cold Atmospheric Plasma Dr. Tetsuji Shimizu, Terraplasma GmbH, Germany
10:00 ~ 10:40	Keynote Speech (Chair: Prof. Xiaowei Zhu)
	Metamaterial-Based MRI Coils Prof. Zhining Chen, National University of Singapore
10:40 ~ 10:50	Tea Break
10:50 ~ 12:30	Invited-Talk Session 1: Measurement and Modeling of Human Tissues (Session Chairs: Prof. Hideaki Haneishi, Prof. Kazuyuki Saito)
10:50 ~ 11:15	Improvement of Inversion Algorithm for Magnetic Resonance Elastography Prof. Mikio Suga, Chiba University, Japan
11:15 ~ 11:40	Magnetic Resonance Imaging (MRI) - Based Electrical Property Retrievals Prof. Shaoying Huang, Singapore University of Technology and Design
11:40 ~ 12:05	Acoustic Impedance Analysis of Non-Alcoholic Steatohepatitis Liver in Microscopic Scale Prof. Kenji Yoshida, Chiba University, Japan
12:05 ~ 12:30	Electro-Physiology Simulation Dr. Jose David Gomez, Chiba University, Japan
12:30 ~ 13:30	Lunch Time
13:30 ~ 14:10	Keynote Speech (Chair: Prof. Weidong Chen)
	MXGs: An Alternative Body Sensor Network for Physio-Marker Identification Prof. Ming-Yih Lee, Chang Gung University, Taiwan
14:10 ~ 16:15	Invited-Talk Session 2: Wearable Technology and Healthcare Applications (Session Chairs: Prof. Xu Zhao, Prof. Ryoichi Nakamura)
14:10 ~ 14:35	Smart-Clothes for Personal Health Monitoring Prof. Yung-Cheng Ma, Chang Gung University, Taiwan
14:35 ~ 15:00	Estimation of Metabolic Equivalent of Task in Daily Activities using Triaxial Accelerometer Prof. Hsien-Tsung Chang, Chang Gung University, Taiwan
15:00 ~ 15:25	Efficient Small Data Aggregation for Internet of Wearable Things Prof. Jia-Ming Liang, Chang Gung University, Taiwan

15:25 ~ 15:50	Using the Pressure Sensors to Assess Swallowing Function – During the Oral and Pharyngeal Stages Prof. Wann-Yun Shieh, Chang Gung University, Taiwan
15:50 ~ 16:15	Frequency and Regional Variations of BOLD ALFF across Sleep-Wake Conditions Prof. Changwei W. Wu, National Central University, Taiwan
16:15 ~ 16:30	Tea Break
16:30 ~ 17:30	Poster Session 1 (P1-P22) (Session Chair: Prof. Kazuya Kawamura)
P1	Comparative Study of the Diffusion of High and Low Molecular Weight Magnetic Resonance Imaging Contrast Agents Bimali Sanjeevani Weerakoon, Chiba University, Japan
P2	3D Continuous Hand Movement Reconstruction from EEG and EMG Recordings Jacobo Fernandez-Vargas, Chiba University, Japan
P3	Assessment of Occurrence and Growth Patterns of Cysts in Patients with Autosomal Dominant Polycystic Kidney Disease using Volumetric Data Yoshihisa Matsunaga, Chiba University, Japan
P4	Intra-Urethral Flow Patterns in Different Morphological Changes by Therapies for Benign Prostatic Hyperplasia Yuta Fukai, Chiba University, Japan
P5	A Study of Segmentation Method of Renal Region in Patients with Autosomal Dominant Polycystic Kidney Disease Takuya Yuzawa, Chiba University, Japan
P6	Urine Flow Dynamics Simulation of Male Urethra using Deformable Model Kohtaroh Kusu, Chiba University, Japan
P7	Sheath-Shaped Manipulator for Surgical Workspace Creation in WaFLES Yuya Tanaka, Chiba University, Japan
P8	Organ Motion Tracking System for Laser Surgical Robot System in Water-Filled Laparo-Endoscopic Surgery –Development and Evaluation of Organ Motion Measurement System– Hiroyuki Nakata, Chiba University, Japan
P9	SAR Evaluation around an Implanted Cardiac Pacemaker Ryota Akiyama, Chiba University, Japan
P10	Development of Robotic Tool Holder with Power Transmission for Single Port WAFLES Shuto Ogino, Chiba University, Japan
P11	A Surgical Robot with Cell Sheet Scooping Mechanism and Heart-Surface-Motion Synchronization Control for Myoblast Cell Sheet Transplantation –Development of a Robot Transplantation Mechanism Mizuki Takebayashi, Chiba University, Japan
P12	Detection of Tissue Coagulation for Microwave Device Naoyuki Ogasawara, Chiba University, Japan
P13	Evaluations on Heating Characteristics of Dielectric Heating Devices Using High-Frequency Current Kazuki Kumagae, Chiba University, Japan
P14	MRICloud: An MRI Data Platform with Cloud Storage and Cloud Computing Service Shih Kai Huang, Chang Gung University, Taiwan
P15	Development of a Soft Hand Rehabilitation Device with Integrated FES Tapio V. J. Tarvainen, Chiba University, Japan
P16	Evaluation on Heating Performances of Surgical Device using Microwave and Radio Frequency Current for Surgical Operation Sho Suzuki, Chiba University, Japan
P17	Development of Flexible Movable Guide Frame for Supporting the Water-Filled-Laparo-Endoscopic Surgery Jiang Wu, Chiba University, Japan

P18	Evaluation of Molecular Transport Properties in Hemodialyzers Bimali Sanjeevani Weerakoon, Chiba University, Japan
P19	Verification of Electrophysiological Model of the Arm using Nerve Conduction Study Simulation Yumi Ota, Chiba University, Japan
P20	Development of a Soft Robotic Thumb Rehabilitation System using Parallel Link Mechanism with Pneumatic Actuators Kouki Shiota, Chiba University, Japan
P21	Evaluation of a Home Bio-Monitoring Robot in a Home Living Scenario Keigo Nakahata, Chiba University, Japan
P22	Vision and Touch Illusions Improve the Experience Given by the Mirror Feedback on Brain Activity with Cerebral Stroke Kazuya Imai, Chiba University, Japan
18:00 ~ 20:00	Welcome Reception (1st Floor, Alumni House)
Day 3 November 17, 2015 (Tuesday)	
Alumni House, Inohana Campus	
8:30 ~ 9:00	Registration
9:00 ~ 9:40	Keynote Speech (Chair: Prof. Koichi Ito)
	The Design of Dual-Band Wearable Antenna on Clothing Prof. Xiaowei Zhu, Southeast University, China
9:40 ~ 10:20	Keynote Speech (Chair: Prof. Mingyih Lee)
	Advanced Physical Phantoms for Evaluation of Interactions between the Human Body and Electromagnetic Waves Prof. Koichi Ito, Chiba University, Japan
10:20 ~ 10:30	Ceremony
10:30 ~ 10:50	Tea Break
10:50 ~ 12:30	Invited-Talk Session 3: Surgery Support Robotics (Session Chairs: Prof. Masahiko Suzuki, Prof. Toshiya Nakaguchi)
10:50 ~ 11:15	A Bio-Inspired Soft Robot for Minimally Invasive Heart Surgery Dr. Xiaozhou Wang, Shanghai Chest Hospital
11:15 ~ 11:40	Force Feedback Technology for Surgical Robot Prof. Le Xie, Shanghai JiaoTong University, China
11:40 ~ 12:05	Hand-Eye Robotic Assistant System for Total Knee Replacement Prof. Xu Zhao, Shanghai JiaoTong University, China
12:05 ~ 12:30	Research and Development of the Assisting Devices for Laparoscopic Surgeons in Collaboration with the Industries and the National Cancer Center Prof. Hiroshi Kawahira, Chiba University, Japan
12:30 ~ 13:30	Lunch Time
13:30 ~ 14:10	Keynote Speech (Chair: Prof. Zhining Chen)
	Pose Control of Soft Robot using Proximity Sensor in Beating Heart Surgery Prof. Weidong Chen, Shanghai JiaoTong University, China

14:10 ~ 16:15	Invited-Talk Session 4: Medical Engineering for Innovative Surgery and Rehabilitation (Session Chairs: Prof. Hideki Hayashi, Prof. Wann-yun Shieh)
14:10 ~ 14:35	Radiofrequency Ablation versus Surgical Resection for Intrahepatic Hepatocellular Carcinoma Recurrence Dr. Yongjun Chen, Shanghai JiaoTong University, China
14:35 ~ 15:00	A Computer-Aided Operation Plan of Cranio-Maxillofacial Surgery Prof. Yu Qiao, Shanghai JiaoTong University, China
15:00 ~ 15:25	Development of Water-Filled Laparo-Endoscopic Surgery (WaFLES) Dr. Takuro Ishii, Chiba University, Japan
15:25 ~ 15:50	Music Therapy Alters Brain Intrinsic Fluctuations in the Elderly with Alzheimer's Disease Prof. Yi-Ping Chao, Chang Gung University, Taiwan
15:50 ~ 16:15	Focal Task Specific Dystonia: from Pathophysiology to Neurorehabilitation Prof. Kahori Kita, Chiba University, Japan
16:15 ~ 16:30	Tea Break
16:30 ~ 17:30	Poster Session 2 (P23-P44) (Session Chair: Prof. Kahori Kita)
P23	Design of Transmitting Antenna for Wireless Capsule Endoscope Noriyuki Shioi, Chiba University, Japan
P24	Study of MIMO Antennas for Medical Image Transmission Terminals Keisuke Okuda, Chiba University, Japan
P25	Development of a Tissue-Mimicking Polyacrylamide Gel Phantom for MR Elastography Takaya Mori, Chiba University, Japan
P26	Evaluation of Maximum Likelihood Estimation of Inter-Crystal Scattering Events for Light Sharing PET Detectors with Numerical Simulation Kohei Shinohara, Chiba University, Japan
P27	Evaluation of Statistical Analysis Models for Simulation Model Based on Histology in Fibrotic Liver Mikito Ito, Chiba University, Japan
P28	Comparison of the SOS Distribution in Liver Tissue between Normal and Cirrhotic Models So Irie, Chiba University, Japan
P29	Evaluation of Articular Cartilage in Rat Knee using Scanning Acoustic Microscopy Masaru Minakawa, Chiba University, Japan
P30	Measuring Body Figure Deformation by Pneumoperitoneum using RGB-D Camera Susanto M. Slamet, Chiba University, Japan
P31	Relationships between Knee Osteoarthritis and the Shapes of Meniscus in MRI Tsuneo Kawahara, Chiba University, Japan
P32	Microcirculation Oximetry using Sidestream Dark-Field Imaging Tomohiro Kurata, Chiba University, Japan
P33	Image Registration between Pathological Images and an Optical Image for Comparing Different Modality Images Takuya Tanaka, Chiba University, Japan
P34	Convenient and Reliable System of 5-ALA-Induced Fluorescent Imaging for Brain Tumor Surgery Hiroki Taniguchi, Chiba University, Japan
P35	Enhanced Photodynamic Therapy using Liposomal Formulation of Indocyanine Green Derivative for Malignant Tumors Yiting Zhang, Chiba University, Japan

P36	Destruction of Tissue Marker for Gastrointestinal Tumor Localization by Ultrasound Irradiation Ryosuke Yahagi, Chiba University, Japan
P37	Cyborg Cockroach Controlled by Human Brain Guangye Li, Shanghai JiaoTong University, China
P38	FES plus tDCS for Stroke Rehabilitation Nurjay Sahiola, Shanghai JiaoTong University, China
P39	The Design of Human-Computer Interactive Display for Chinese Braille Pinzhi Wang, Shanghai JiaoTong University, China
P40	Diagnosis and Evaluation System of Parkinson's Based on Kinect Mengdi Lu, Shanghai JiaoTong University, China
P41	Cardiovascular Interventional Surgical Robot Kaizhen Lin, Shanghai JiaoTong University, China
P42	Effects of a High-Performance Electrosurgical System on Biological Tissues Shuheii Otomo, Chiba University, Japan
P43	Tongue Coating Amount Estimation using Spectral Image Analysis Shuheii Ino, Chiba University, Japan
P44	Breadth Measurement of Sublingual Vein from Near-Infrared Imaging Fumina Kobayashi, Chiba University, Japan
18:00 ~ 21:00	Banquet (Chiba City Museum of Art)
Day 4 November 18, 2015 (Wednesday)	
CFME, Nishi Chiba Campus	
9:00 ~ 11:00	CFME Labo. Tour & Discussion (Chair: Prof. Hiroshi Kawahira)