

17 July, 2019

Moderator and Session Name					
Session Name	Time	Talk	Speaker		Presentation Title/Authors list
Prof. Toshihiro Itoh Opening Session	09:00-09:05	Opening Address	Sang-Seok Lee		
	09:05-09:10	Opening Address	China Side		
	09:10-09:15	Opening Address	Korea Side		
	09:15-09:45	Memorial Talk	Masayoshi Esashi	Tohoku University	MEMS on LSI for Heterogeneous Integration and Hands-On Access Fabrication <i>Masayoshi Esashi</i>
	09:45-10:05	Plenary 1	Chengkuo Lee	National University of Singapore	Moving from IoT to 5G Era - Si MEMS and Flexible Sensors <i>Chengkuo Lee</i>
Poster A + Poster I	10:05-10:25				
Prof. Dong-Weon LEE Plenary and Invited Session	10:25-10:45	Plenary 2	Dongfang Wang	Jilin University	Micro/Nano Manufacturing and Its Applications-Under One Roof Report-Part VII <i>Cao Xia, Jie Song, Wenlou Yuan, Di Zhou, Guansong Shan, Xinyan Jiang, Yang Liu, Xin Wang, Xu Yang, Xin Liu, Zhifu Yin, Huan Liu, Zhiyu Zhang, Jian Lu, Toshihiro Itoh, Ryutaro Maeda, Ji Zhao, Dong F. Wang</i>
	10:45-11:00	Invited 1	Seung-Min Hyun	Korea Institute of Machinery & Materials	Flexible and Stretchable Energy Storage Devices <i>Tae Gwang Yun, Seungmin Hyun</i>
	11:00-11:15	Invited 2	Zenghui Wang	University of Electronic Science and Technology of China	Detecting and Visualizing Mechanical Motion at the Nanoscale <i>Zenghui Wang</i>
Prof. Dongfang Wang Oral Session Human Interface and Medical Applications	11:15-11:27	Oral 1	Norihisa Miki	Keio University	MEMS-Based Human Interface Devices <i>Norihisa Miki</i>
	11:27-11:39	Oral 2	Tianzhun Wu	Shenzhen Institutes of Advanced Technology, CAS	High-Density Retinal Electrodes Based on Micro/Nano Fabrication <i>Qi Zeng, Jinjiang Huang, Yi Zhang, Tianzhun Wu</i>
	11:39-11:51	Oral 3	Ngo Vo Ke Thanh	Research Laboratories of Saigon High-Tech Park	Development of Flood Monitoring System in Ho Chi Minh City Using Piezoresistive Pressure Sensor Fabricated by SHTP Labs <i>Xuan Thang Trinh, Nguyen Tuan Khoa, Tran Duy Hoai, Nguyen Thanh Phuong, Vu Le Thanh Long, Truong Huu Ly, Nguyen Chi Cuong, Hoang Ba Cuong, Ngo Vo Ke Thanh, Le Quoc Cuong, Susumu Sugiyama</i>
Poster A + Poster I	11:51-13:20				
Dr. Eung-sug Lee & Dr. Sohei Matsumoto Industry Session	13:20-13:32	Oral 4	Kotaro Shimizu	SIJTechnology, Inc.	Direct Patterning of Micron-Scale by Super Inkjet Technology
	13:32-13:44	Oral 5	Yuko Akabane	TDC Corporation	Precision Polishing Technology for MEMS-NEMS
	13:44-13:56	Oral 6	Kenshin Ikeda	Kyodo International, Inc.	Process Development and Application of Thin-Film Membrane Fabrication Using Sputtering Method
	13:56-14:08	Oral 7	Hironobu Yoshizaki	Abelieve Inc.	MEMS Factory Construction
	14:08-14:20	Oral 8	Tithimanan Srimongkon	Heidelberg Instruments KK	Greyscale Lithography by Heidelberg Instruments Mikrotechnik
Technical Tour and Banquet Bus leaves at 14:30					

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Prof. Bong-Kee Lee & Prof. Takashi Kasahara Plenary and Invited Session	09:10-09:30	Plenary 3	Yu-Cheng Lin	National Cheng Kung University	Opportunities and Challenges of In Vitro Diagnostic Rapid Tests <i>Yu-Cheng Lin</i>
	09:30-09:50	Plenary 4	Sukhan Lee	Sungkyunkwan University	Advancement of Micro/Nano Electro-Hydro-Dynamic Printing <i>Sukhan Lee</i>
	09:50-10:05	Invited 3	Nak-Kyu Lee	Korea Institute of Industrial Technology	Current status of Korea's Additive Manufacturing Technology <i>Nak-Kyu Lee</i>
	10:05-10:20	Invited 4	Jeong-O Lee	Korea Research Institute of Chemical Technology	Large Scale Production of Metal Oxide Nanoribbons Using Scratch Lithography <i>Geonhee Lee, Soo Sang Chae, S, Du Won Jeong, Won Jin Choi, Sungsu Park, Jeong-O Lee</i>
Poster B + Poster I	10:20-10:50				
Prof. Zenghui Wang Oral Session Sensors	10:50-11:02	Oral 9	Chenzhong Shao	Tohoku Univeristy	A CMOS-MEMS Integrated Tactile Sensor Module and Its System Evaluation for Robot Applications <i>Chenzhong Shao, Hideki Hirano, Munetaka Nomoto, Hiroshi Miyaguchi, Masanori Muroyama, Shuji Tanaka</i>
	11:02-11:14	Oral 10	Huimin Hao	Taiyuan University of Technology	Design and Preparation of Micro-Acceleration Sensor with Multi-Spring Suspension <i>HAO Huimin, HUANG Jiahai, XU Yiqian, QIU Zhangyue, LI Shiwei</i>
	11:14-11:26	Oral 11	Jian Lu	National Institute of Advanced Industrial Science and Technology	Development of Magnetic Sensing Systems for Surgical Navigation and MedTech Innovation <i>Jian Lu, Lan Zhang, Ryutaro Maeda</i>
	11:26-11:38	Oral 12	Huicong Liu	Soochow University	A Flexible Capacitive Tactile Sensor for Robot Skin <i>Yujie Han, Ming Sun, Huicong Liu, Zhan Yang, Lining Sun, Jun Mizuno</i>
Poster B + Poster I	11:38-13:00				

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Time	Talk	Speaker		Presentation Title	
Dr. SungHo Lee & Prof. Tadao Matsunaga Oral Session Fabrication & Materials	13:00-13:12	Oral 13	Akinobu Yamaguchi	Univerisity of Hyogo	Additive Manufacturing Process by X-ray-Induced-Photochemical Reaction <i>Akinobu Yamaguchi, Ikuo Okada, Ikuya Sakurai, Shunya Saegusa, Yuichi Utsumi</i>
	13:12-13:24	Oral 14	Masaaki Moriyama	Tohoku University	Au-Au-Bonding-Based Hermetic Wafer-Level MEMS Packaging Technology Using In-Plane Feedthrough of Thick Au RF Lines with Al2O3 Adhesion Layer <i>Masaaki Moriyama, Yukio Suzuki, Kentaro Totsu, Hideki Hirano, Shuji Tanaka</i>
	13:24-13:36	Oral 15	Hongliang Lu	Fudan University	Precise Preparation of Heterostructured Nanomaterials by ALD for Effective Gas Sensors <i>Kaiping Yuan, Li Yuan Zhu, Hong Liang Lu</i>
	13:36-13:48	Oral 16	Masaya Takeuchi	University of Hyogo	Thermal Evaporation of a Polytetrafluoroethylene Film Under Atmospheric Pressure Assisted by Synchrotron Radiation Pre-Irradiation <i>Masaya Takeuchi, Akinobu Yamaguchi, Yuichi Utsumi</i>
	13:48-14:00	Oral 17	Eung -Sug Lee	Korea Institute of Machinery & Materials	Nano-Imprint Based Metal Nanopatterning in Nanophotonics <i>Eung-Sug Lee, Jun-Hyuk Choi, Jihye Lee, Dae-Guen Choi, Junho Jeong</i>
	14:00-14:12	Oral 18	Cancel		
	14:12-14:24	Oral 19	Li Jun Yang	Harbin Institute of Tech	Laser Composite Manufacturing Technology <i>Yang Lijun, Ding Ye, Cheng Bai</i>
Coffee Break	14:24-14:50				
Dr. Sungwon Youn Oral Session Integration and Applications	14:50-15:02	Oral 20	Hakjae Lee	The University of Tokyo	Porous Microneedles on Paper Substrate for Rapid Diagnosis of Extracted ISF from Human Epidermis <i>Hakjae Lee, Nobuyuki Takama, Beomjoon Kim</i>
	15:02-15:14	Oral 21	An Jie Ming	GRIMAT Engineering Institute Co., Ltd.	Hybrid Ordered Surface-Enhanced Raman Spectroscopy Substrates and Trace Residue Detection Applications <i>Ming Anjie, Qi Qi, Zhao Yongmin, Wei Shuhua, Zhao Wenrui, Xu Yaohua, Zhang Jing, Wei Feng</i>
	15:14-15:26	Oral 22	Cheolwoo Ha	Korea Institute of Industrial Technology	3D Micro Actuator Based on Elastic Design Manipulated by Optical Trapping Force <i>Cheol Woo Ha, Dong-Yol Yang, Nak-Kyu Lee</i>
	15:26-15:38	Oral 23	Cancel		
Prof. Huicong Liu Oral Session IoT for Green and Life	15:38-15:50	Oral 24	Wang Lu	Xi'an Jiaoton Univeristy	In-Plane Bidirectional Vibration Bulk PZT Energy Harvester <i>Lu Wang, Libo Zhao, Dejiang Lu, Ping Yang, Bian Tian, Guoxi Luo, Yao Chen, Qi Mao, Chenying Wang, Weixuan Jing, Niancai Peng, Junlong Zhang, Zhuangde Jiang, Maeda Ryutaro</i>
	15:50-16:02	Oral 25	Munehisa Takeda	NMEMS Technology Research Organization	Introduction of the Road Infrastructure Monitoring System Development Project (RIMS) <i>Munehisa Takeda</i>
	16:02-16:14	Oral 26	Tadao Matsunaga	Tottori University	Non-planar photofabrication techniques for minimally invasive medical devices <i>Tadao Matsunaga, Noriko Tsuruoka, Sang-Seok Lee, Yoichi Haga</i>

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A-1	Heqin Zhang	GSFS, The University of Tokyo	Development of Simulation Model on Sensitivity of Thermal MEMS Flow Sensor <i>Heqin Zhang, Sai Ma, Toshihiro Ito</i>
A-2	Junya Nakagawa	GSFS, The University of Tokyo	Mechanical Modeling of Ultra-Thin Film MEMS Piezoresistive Strain Sensor Assembly <i>Junya Nakagawa, Maria Zymelka, Natsumi Makimoto, Takahiro Yamashita, Takeshi Kobayashi, Seiichi Takamatsu, Toshihiro Itoh</i>
A-3	Nana Takahashi	Waseda University	Introduction of the study on moisture absorption characteristics of woody carbon material <i>Nana TAKAHASHI, Hiroyuki KUWAE, Shuichi SHOJI, Jun MIZUNO</i>
A-4	Keisuke Nakajima	Osaka Prefecture University	Impact of molecular weight dispersion of resin on demolding process in nanoimprint lithography: Molecular dynamics study <i>Keisuke Nakajima, Hiroaki Kawata, Yoshihiko Hirai, Masaaki Yasuda</i>
A-5	Koji Okada	Hosei University	Microfluidic Electrogenerated Chemiluminescence Cells with Titanium Dioxide Nanoparticle-Embedded Channels <i>Koji Okada, Takuya Nomura, Hiroyuki Kuwae, Jun Mizuno, Takashi Kasahara</i>
A-6	Jian Li	Beihang University	SiC-SiC Direct Bonding with Hydrofluoric Acid Treatment <i>Jian Li, Yonggang Jiang, HongChang Li, Xiaobo Liang, Manguo Huang, Defeng Liu, Deyuan Zhang</i>
A-7	Xi Wang	Changzhou University	Smoothly Migration of Ions in Carbon Electrodes with Bimodal Pores at Ultralow Temperature of -100 ° C <i>Xi Wang, Jiang Xu, Ningyi Yuan, Jianning Ding</i>
A-8	Xiaoshuang Zhou	Changzhou University	Investigation on Wire-shaped fuel cell electronics based on CNT yarn <i>Xiaoshuangzhou, Jingning Ding, Ningyi Yuan</i>
A-9	Shengping Dai	Changzhou University	Investigation on Preparation and Application of Self-Healing Conductive Hydrogel <i>Shengping Dai, Jingning Ding, Ningyi Yuan</i>
A-10	Jiqiang Liu	Soochow University	Design and Implementation of an Interface Circuit for Improving the Output Power of the Vibration-Threshold-Triggered Energy Harvester <i>Jiqiang Liu, Qisheng He, Ruofeng Han, Dacheng Xu, Xinxin Li</i>
A-11	Ziang Chen	Soochow University	A Discrete Time Mode-Reversal Using a Novel Fast Self-Tuning Fuzzy Pi Controller for MEMS Axis Symmetric Vibratory Gyroscopes <i>Zi'ang Chen, Shuwen Guo, Pei Wang, Mengmeng Cheng, Lei Yu, Bo Fan, Dacheng Xu</i>
A-12	Wei Tian	Shanghai Institute of Microsystem and Information Technology, CAS	High Heat Flux Sensor Based on Micromachined Thermopile with Good Sensitivity and Fast Response <i>Wei Tian, Yi Wang, Hong Zhou, Yuelin Wang, Tie Li</i>
A-13	Hosup Jung	Seoul National University	On Chip Microfluidic Fabrication of Functional Liposome <i>Jeon Jihun, Kim Taejin, Kim Donggeun, Son Younghwan, Keesung Kim, Ho-sup Jung</i>
A-14	Jihun Jeon	Seoul National University	Life-Cycle CO ₂ Emissions of Oyster Shell & Bottom Ash Recycling for Drainage Materials <i>Jihun Jeon, Younghwan Son, Donggeun Kim, Taejin Kim, Hosup Jung, Keesung Kim</i>
A-15	Shichen Li	Chonnam National University	Morphological Changes in Circumferentially Aligned Polystyrene Nanofibers Produced by Electrospinning <i>Shichen Li, Bong-Kee Lee</i>
A-16	Yukito Fukushima	Tottori University	A Low-Cost Water Flow Sensor <i>Yukito Fukushima, Tomoaki Kageyama, Tetsuro Seiyama, Sumio Kurose, Tadao Matsunaga, Sang-Seok Lee</i>
A-17	Yusaku Nakamura	Osaka Prefecture University	Computational Study of Focused Electron Beam Induced Deposition <i>Yusaku Nakamura, Yuya Miyashita, Hiroaki Kawata, Yoshihiko Hirai, Masaaki Yasuda</i>
A-18	Van Toan Nguyen	Tohoku University	Liquid and Solid States on Chip Microsupercapacitors Based on Silicon Nanowires-Graphene Nanowalls-PANi <i>Nguyen Van Toan, Jinhua Li, Truong Tuoi, Hongtao Sui, Zhuqing Wang, Naoki Inomata, Masaya Toda, Takahito Ono</i>
A-19	Hiromu Okada	Tottori University	A Real-Time Body Temperature Monitoring of the Rat Using an Ultra-Compact Wireless Sensor Node <i>Hiromu Okada, Yusuke Bando, Jian Lu, Lan Zhang, Ryutaro Maeda, Yoshiharu Okamoto, Tadao Matsunag, Sang-Seok Lee</i>
A-20	Jae Hyuk Choi	Pusan National University	Flexible Strain Sensor Using Aligned Silver Nanowires and PDMS Composites <i>Jae Hyuk Choi, Myung Gyu Shin, Young Jung, Dong Hwan Kim, Dong Min Park, Jong Soo Ko</i>
A-21	Ye Ding	Harbin Institute of Technology	Femtosecond Laser Fabricated Micro-structures on GCr15 with Antifriction Property <i>Ding Ye, Yang Lijun, He Jiangtao</i>
A-22	Bai Cheng	Harbin Institute of Technology	Investigation on Hybrid Laser-Water-Jet Machining of Ceramic Matrix Composites <i>Cheng Bai, Xu Junjie, Yang Lijun</i>

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B-1	Dae Keun Choi	Korea Institute of Industrial Technology	Comparative Analysis of Human Pulse Signal Measurement Using ECG Sensor and Piezoresistive Sensor <i>Dae Keun Choi, Hye-jin Lee, Nak-Kyu Lee, Joon-Shik Park, Jeanho Park</i>
B-2	Cancel		
B-3	Hirofumi Nogami	Kyushu University	Wearable pulse wave sensor for cow health monitoring system <i>Hirofumi Nogami , Ryuta Shiraishi, Satoru Ohgata</i>
B-4	Lan Zhang	National Institute of Advanced Industrial Science and Technology	Discussion on the Prototype Fabrication of Skin-Injury Monitoring Devices for Pressure Ulcer Prevention <i>Lan Zhang, En Takashi, Yanwei Wang, Akio Kitayama, Jian Lu, Ryutaro Maeda</i>
B-5	Yoshitaka Kajiyama	Mitsubishi Electric Corporation, Advanced Technology R&D Center	All Around Scanning MEMS Mirror Driven by Piezoelectric Actuators <i>Yoshitaka Kajiyama, Yoshiaki Hirata, Sato Kobayashi, Kozo Ishida, and Tetsuya Satake, Kensuke Kanda, Takayuki Fujita, Kazusuke Maenaka</i>
B-6	Hirofumi Hiramama	National Institute of Advanced Industrial Science and Technology	Encapsulation and concentration with droplet microfluidics <i>Hirofumi Hiramama</i>
B-7	Cancel		
B-8	Sungwon Youn	National Institute of Advanced Industrial Science and Technology	Development of Ultra High Speed Electron Beam Writing System and Nanoimprint Technologies <i>Sung-Won YOUN, Kenta SUZUKI, Hiroshi HIROSHIMA, Takashi NIIZEKI, Satoshi NAGAI, Takaomi ITO, Tetsuyuki OKABAYASHI</i>
B-9	Jongsung Park	Chonnam National University	Continuous Production of Super-Hydrophobic Thin Film by Roll-to-Roll System <i>Jongsung Park, Dong-Su Kim, Dong-Weon Lee</i>
B-10	Jae Won Choi	Korea Institute of Industrial Technology	Experimental Investigation of Process Parameters for Projection Micro-Stereolithography to Enhance the Quality of the Lattice Structure <i>Jae Won Choi, Han bit Lee, Ji Yong Park, Suk Hee Park, Nak-Kyu Lee, Cheol Woo Ha</i>
B-11	Maosen Wang	Jilin University	Modeling and Design Optimization of Pneumatic DTH Hammer with Self-Propelled Round Bit <i>Kun Bo , Maosen Wang, Yong Hu</i>
B-12	Yong Hu	Jilin University	Introduction of the Cable-Driven Parallel Mechanism System Model Calculation and Optimization <i>Yong Hu, Kaifeng Hu, Ning Liang, Ye hu, Yong Cao, Xiaoguang Liu, Gaofeng Pan</i>
B-13	Sungho Lee	Korea Institute of Industrial Technology	Derivation of Optimal Conditions for the Manufacture of Aerogel Blanket <i>Suyeon Lee, Jungin Kim, Jong Chul Park, Sung Ho Lee, Sung-Yoon Lee</i>
B-14	Cancel		
B-15	Yinghui Wang	Institute of Microelectronics, CAS	A Heterojunction Near-Infrared Phototransistor with High Performance <i>Ying Meng, Yinghui Wang, Weibing Wang</i>
B-16	Lichun Dong	Jilin University	Study on Superhydrophobic Properties of Swan Feather Surface <i>Li-chun Dong, Jin-hui Li, Jun-feng Yang, Xiao-yang Jiang, Zhi-wu Han</i>

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I-1	Kotaro Shimizu	SIJTechnology, Inc.	Direct Patterning of Micron-Scale by Super Inkjet Technology
I-2	Yuko Akabane	TDC Corporation	Precision Polishing Technology for MEMS-NEMS
I-3	Kenshin Ikeda	Kyodo International, Inc.	Process Development and Application of Thin-Film Membrane Fabrication Using Sputtering Method
I-4	Hironobu Yoshizaki	Abelieve Inc.	MEMS Factory Construction
I-5	Masashi Seki	Toshiba TEC Corp., Corporate R&D Center	CNT Gas Absorbing Device to Realize Instantaneously Detecting Various Traces of Gas
I-6	Takashi Naiki	ROHM Co., Ltd.	ROHM Group Technology Synergies Enable Innovative Products
I-7	Tithimanan Srimongkon	Heidelberg Instruments KK	Greyscale Lithography by Heidelberg Instruments Mikrotechnik