

2023 International Symposium on Advanced Technology (ISAT-22)

Oral Session

Session A 10/19 15:00-16:10 (L008) <i>Chair: Prof. Yung-Peng Wang</i>	
Paper No.	Title / Author / Affiliation
JP-12	SSVEP-BCI Text Spelling System Mimicking Keyboard Layout Na Qianwen, Tanaka Hisaya <i>Graduate School of Kogakuin University</i>
TW-21	The effect of the drying methods on the texture properties of banana Quoc Thien Pham ¹ , Pawan Rajput ² , Sheng-En Lu ² , Yu-Hsuan Huang ² , Cheng-Hsuan Chiang ² , Nai-Shang Liou ² <i>¹HUTECH University; ²Southern Taiwan University of Science and Technology</i>
TW-24	Image-based Classification and Analysis of Hospital Dishes for Nutritional Monitoring and Personalized Care Yao-Lin Zhang ¹ , Wen Yao She ² and Yu-Sheng Lin ¹ <i>¹Southern Taiwan University of Science and Technology; ²National Kaohsiung University of Science and Technology</i>
JP-27	Survey and Estimation of the Actual Amount of Scrap in Residential Ceramic Siding Processing Factories and On-Site Treatment Hiwatashi Natsu, Tamura Masaki <i>Kogakuin University</i>
JP-52	LCCO₂ Evaluation and Proposal of the Measures for Environmental Impact Reduction focusing on the Material Manufacturing, Fabrication, and Construction on site Phases of Steel-framed Buildings in Japan Takuto Kobayashi, Masaki Tamura, Kenji Yamaoka, and Kazuaki Miyagawa <i>Kogakuin University</i>
JP-60	Development and basic property evaluation of mortar for 3D printer using sea shells waste with blue carbon fixation properties Natsuka HOSODA, Kikuno IGUCHI, Masaki TAMURA, Tetsuya SASAKI, Takashi SAITO, Ryota OZEKI, Taichi YAMAMOTO, Ayano KOSEKI <i>Kogakuin University</i>

Session B 10/19 15:00-16:10 (L001) <i>Chair: Prof. Tung-Yung Huang</i>	
Paper No.	Title / Author / Affiliation
JP-25	A Study on Link Load Balancing Method in Elastic Optical Networks Using Superposition Coding Shota Okochi and Ken-ichi Baba <i>Kogakuin University</i>
TW-17	Microstrip Grid Array with Two Elements for WLAN 5.8GHz Band Bing-Hong Cai and Wen-Shan Chen <i>Southern Taiwan University of Science and Technology</i>
TW-25	Using Discrete Cosine Transform for Automated Pattern Recognition

	Kai-Hsien Chen, Zheng-Quan Wang, Ming-Hua Chen, and Gwo-Jiun Horng <i>Southern Taiwan University of Science and Technology</i>
JP-17	Implementation and Evaluation of Key Sharing Method in Information-Centric Networking based Wireless Sensor Networks Takafumi Taya, Osamu Mizuno <i>Kogakuin University</i>
JP-29	Investigation of the thermosensitive mechanism in the interface of TiO₂/Cu₂O thin-film temperature sensors Reika Miyajima, Ichiro Takano <i>Kogakuin University</i>
JP-51	Three-dimensional Residual Stress Estimation of a Resistance Spot-welded Plate using the Eigenstrain Theory and X-ray Diffraction Kensei Miyoshi, Toshinori Tanaka, and Masaru Ogawa <i>Graduate School of Kogakuin University</i>

Session C 10/19 16:30-17:40 (L008) <i>Chair: Prof. Chin-Juei Tung</i>	
Paper No.	Title / Author / Affiliation
TW-19	Antennas on Smart Watch for GPS/BT/Wi-Fi 6E Applications Yong-Zhi Su and Wen-Shan Chen <i>Southern Taiwan University of Science and Technology</i>
TW-26	Application of Face Image Recognition in Sleep-deprived Driving Warning System Yen-Yu Chen, Huai-Wen Hsu, and Gwo-Jiun Horng <i>Southern Taiwan University of Science and Technology</i>
JP-13	Non-destructive evaluation of 3-D creep strain in the whole turbine blade using surface displacement Satoshi Fujii, and Masaru Ogawa <i>Graduate School of Kogakuin University</i>
JP-18	Jet Vectoring using Coanda Surface with Distributed Suction Slots K. Suzuki ¹ , K. Nishibe ² , K. Sato ¹ <i>¹Kogakuin University; ²Tokyo City University</i>
JP-28	Behavior of Jet Flow with Coanda Curvature on One Side of Slot Outlet Hiroki Tezuka, Kaito Yabu, Koichi Nishibe, and Kotaro Sato <i>Kogakuin University</i>
JP-34	Development of Accelerated Calendar-life Evaluation Method for Lithium-Sulfur Batteries Kento Okanishi ^a , Uran Tsunoda ^a , Masayoshi Watanabe ^b and Shiro Seki ^a <i>^aKogakuin University; ^bYokohama National University</i>

Session D 10/19 16:30-17:40 (L001) <i>Chair: Prof. Masaki Tamura</i>	
Paper No.	Title / Author / Affiliation
JP-24	Terrain Roughness Estimation Using 3D LiDAR for Mobile Robots Tsubasa Abe and Hanwool Woo

	<i>Kogakuin University</i>
JP-54	Automatic Exploration Method for Identification of Multiple Radiation Sources Yurika TAKAHASHI and Hanwool WOO <i>Kogakuin University</i>
TW-13	The Development and Achievement of Contactless Transport Stage with Acoustic Levitation Technology Yu-Ting Chen, and Sheng-He Wang <i>Southern Taiwan University of Science and Technology</i>
TW-14	Development and Achievement of An Intelligent Safety System for Robot Arm Operation Based on Vision Learning Technology Wei Fu, Kuo, Sheng He, Wang <i>Southern Taiwan University of Science and Technology</i>
TW-27	Development of a Bluetooth-Based Rehabilitation Ball and Its Corresponding Interactive Games Jeng-Han Li, Yu-Chin Lin, Wei-Ting Hou, Tien-Yu Hsu, Yu-Xiang Hong, and You-Cheng Kang <i>Southern Taiwan University of Science and Technology</i>

Session E 10/20 10:20-11:10 (L008) <i>Chair: Prof. Wei-Chin Chang</i>	
Paper No.	Title / Author / Affiliation
JP-35	Behavior of Synthetic Jet Produced by Double Slots M. Takano ¹ , M. Katano ¹ , K. Nishibe ² , and K. Sato ¹ <i>¹Kogakuin University; ²Tokyo City University</i>
JP-43	Entrainment Characteristics of Plane Jets Passing Over Tow-Dimensional Flat Plates Kota Ishiwata ¹ , Koichi Nishibe ² and Kotaro Sato ¹ <i>¹Kogakuin University; ²Tokyo City University</i>
JP-44	Elucidation of the behavior of synthetic jets impinging on the flat plate Michiya Yasumiba ¹ , Koichi Nishibe ² , and Kotaro Sato ¹ <i>¹Kogakuin University; ²Tokyo City University</i>
JP-65	Dynamic Behavior of Two Cavitation Bubbles Induced near a Rigid Boundary Y. KUBOTA ¹ , D. KANG ² , A. KIYAMA ² and K. SATO ¹ <i>¹Kogakuin University; ²Saitama University</i>

Session F 10/20 10:20-11:10 (L001) <i>Chair: Prof. Chin-Tu Lu</i>	
Paper No.	Title / Author / Affiliation
JP-40	Semiconductor Properties of Ti-doped ZnO Transparent Conductive Thin Films Naoya Utsu, Ichiro Takano <i>Kogakuin University</i>
JP-47	Influence of TiO₂ film thickness variation on photocatalytic properties of TiO₂/Ti-Cu-O photocatalysts

	Ritsuki Kakizawa, Ichiro Takano <i>Kogakuin University</i>
JP-64	Phase Control of Copper Oxides by Changing Temperatures and Gas Types in Growth of Mist CVD N. Sugita, S. Yoshida, H. Nagai, T. Onuma, T. Honda, and T. Yamaguchi <i>Kogakuin University</i>
TW-20	532nm Green Laser Annealing for Improving the Physical Properties of ITO/Ag/ITO and AZO/Ag/AZO Transparent Conducting Electrodes Manikandan Rajendran ¹ , Keh-Moh Lin ¹ , Wen-Tse Hsiao ² ¹ <i>Southern Taiwan University of Science and Technology</i> ; ² <i>National Applied Research Laboratories</i>