The 20th International Symposium on Advanced Technology (ISAT-20)

November 23-24, 2021

Kogakuin University of Technology and Engineering, Japan

1. Main theme of ISAT-20: Advanced Technologies for SDGs

Topics of ISAT-20 include, but not limited to:

- 1. Biochemistry and Food Science
- 2. Synthetic Chemistry and Medicinal Chemistry
- 3. Information and Communications Technology (ICT)
- 4. Energy and Transportation
- 5. Advanced Functional Materials
- 6. Architectural and Civil Engineering
- 7. Intelligent and Secure Systems
- 8. Education and Human Studies
- 9. Environmental Chemistry and Chemical Engineering
- 10. Simulation Science, Measurement Science, Computational Science
- 11. Electric Engineering and Electronic Engineering
- 12. Mechanical Engineering

The symposium program will consist of key-note lectures, oral presentations, and lightning talk sessions.

Language: English will be the official language during the conference.

Conference Venue: The conference will be held by online Conference website: https://www.kogakuin.ac.jp/isat/

2. Presentation Guidelines

Presentation Type	Presentation Time
Keynote Sessions	35 minutes (LIVE)
Oral Sessions	15 minutes (LIVE)
Lightning Talk Sessions	5 minutes (pre-recorded)

Live Keynote and Oral Presentations Sessions:

The time allocated to each presentation will be:

Key-note: 35 minutes talk and 5 minutes for discussion Oral Session: 15 minutes talk and 5 minutes for discussion.

Lightning Talk Sessions:

5 minutes pre-recorded presentation will be open to the conference website.

The presenters are required to communicate with attendees via online.

3. General Schedule

♦ November 23rd

Japan	Taiwan,	Vietnam						
(JST)	Philippines (TST) (PTS)	(ICT)						
11:45	10:45	9:45	LOG-IN AND ROLL CALL					
12:00	11:00	10:00	OPENING CERI	EMONY				
			Prof. Shinichiro					
			President, Koga		ersity of Te	echnology and	Engineeri	ng
			Prof. Lu, Deng-					
			President, South Prof. Doan Qua		n Universi	ty of Science a	and Techno	ology
			Rector, The United Technology	iversity of	Danang - U	University of S	science and	1
			Prof. Jose D. Ca	macho, Ji	•			
			Chancellor, Uni			ines Los Baño	S	
			PHOTO SESSIO		11			
12:30	11:30	10:30	KEYNOTE PRE	SENTATI	ON 1			
			Why do animals		shape? - M	lovement and	shape -	
			Prof. Shinichiro					
			Department of M					
10.15	10.15		President of Kog			echnology and	d Engineer	ing, Japan
13:15	12:15	11:15	KEYNOTE PRESENTATION 2 Case study of using artificial intelligence technology to construct a smart					
						act a smart		
			hospital Prof. Chang, Wan-Jung, Department of Floring Program of Medical and					
			Department of Electronic Engineering, Director of Medical and Intelligence Technology Research Center (MIT Center)					
			Southern Taiwan University of Science and Technology, Taiwan					
14:00	13:00	12:00	BREAK, LOG-II				38), 10111	
			ORAL PRESEN					
				1	2	3	4	5
14:10	13:10	12:10	ORAL1	BFS1	EEE1	ECC1	SSM1	ME1
14:30	13:30	12:30	ORAL2	BFS2	EEE2	ECC2	SSM2	ME2
14:50	13:50	12:50	ORAL3	BFS3	EEE3	ECC3	SSM3	ME3
15:10	14:10	13:10	ORAL4	SC1	EEE4	ECC4	SSM4	ME4
15:30	14:30	13:30	BREAK, LOG-II					
			LIGHTNING T	ALK SES			HON	
				1	2	3	4	5
15:45	14:45	13:45	LIGHTNING1	AFML	EEEL	ICTL	SSML	MEL
1617	15.15	1115	I I CHENTING	1-5	1-5	1-5	1-4	1-4
16:15	15:15	14:15	LIGHTNING2	AFML	EEEL	ICTL	SSML	MEL
16.45	15:45	14:45	BREAK	6-9	6-10	6,8,9,11,12	5-8	5-7
16:45 17:00	16:00	14:45	LIGHTNING3	BFSL	EEEL	ICTL	EHSL	ACEL
17.00	10.00	13.00	LIGHTNINGS	1-4	11-15	7,10,13,14	1-3	1-6
17:30	16:30	15:30	LIGHTNING4	BFSL	EEEL	ICTL	ETL	ECCL
17.30	10.50	13.30	LIGHTIMING	5-8	16-19	15-18	1-3	1-4
						ISSL 1		

♦November 24th

Japan	Taiwan,	Vietnam						
(JST)	Philippines	(ICT)						
	(TST) (PTS)							
11:45	10:45	9:45	LOG-IN AND ROLL CALL					
12:00	11:00	10:00	KEYNOTE PRESENTATION 3					
			Development of BK-Anticovid Robot					
			Dr. VO Nhu Th	anh and I	Or. LE Ho	ai Nam		
			Mechatronic Div					
			University of Sc	ience and	Fechnology	, The Univ	ersity of Da	a Nang,
			Viet Nam					
12:45	11:45	10:45	KEYNOTE PRI					
			Honorable Dan					
			President, University of the Philippines					
13:30	12:30	11:30	BREAK, LOG-I					
			ORAL PRESENTATION, PARAREL SESSHON					
				1	2	3	4	5
13:40	12:40	11:40	ORAL5	AFM1	ACE1	ICT1	EHS1	ME5
14:00	13:00	12:00	ORAL6	AFM2	ACE2	ICT2	EHS2	ME6
14:20	13:20	12:20	ORAL7	AFM3	ACE3	ICT3	EHS3	ME7
14:40	13:40	12:40	ORAL8	AFM4	ACE4	ICT4	EHS4	ME8
15:00	14:00	13:00	BREAK					
15:20	14:20	13:20	ORAL9	AFM5	ACE5	ICT5	EHS5	ME9
15:40	14:40	13:40	ORAL10	AFM6	ACE6	ICT6	EHS6	ME10
16:00	15:00	14:00	ORAL11	ET1	ACE7	ICT7	EHS7	ME11
16:20	15:20	14:20	ORAL12			ISS1	EHS8	ME12
16:45	15:45	14:45	BREAK, LOG-IN AND ROLL CALL					
17:00	16:00	15:00	AWARDING CEREMONY					
17:30	16:30	15:30	CLOSING CEREMONY					
			The Next Host: Prof. Doan Quang Vinh					
			Rector of The University of Danang - University of Science and					
			Technology					

Oral Presentation

Advanced Functional Materials

Presentation	Title	
No.		
AFM1.	Facile hydrothermal synthesis of interlayer-expanded	Kien Nguyen-Ba, Huy Le-Quoc,
	MoS ₂ /rGO	Trang Nguyen-Thi-Thu, and Khan
		Dinh-Thanh
AFM2.	Fabrication of Anodic Aluminum Oxide Templates	Lance Tristan Oliver Roncal Pengson,
		M. Vasquez Jr
AFM3.	Carrier gas type dependence of Ga ₂ O ₃ thin film grown by	Rie Yamada, S. Takahashi, A.
	mist Chemical Vapor Deposition	Sekiguchi, T. Onuma, T. Honda, and
		T. Yamaguchi
AFM4.	A Study on Smart Fluid Technology and its Applications in	Aaron Raymond See, Kohila
	Haptics	Chandramohan
AFM5.	Growth of GaInN multi quantum well on strain-controlled	Masaki Matsuda, R. Yoshida, K.
	layer by RF-MBE toward realization of light emitting diodes	Tahara, T. Yamaguchi, T. Onuma,
	operating in red spectral region	and T. Honda
AFM6.	Fluorescent immune-biosensor on the glass biochip used for	Ying-Nien, Chou, Lien-Chiang, Hung
	albumin detection	

Architectural and Civil Engineering

Presentation	Title	
No.		
ACE1.	Study on Optimum Room Temperature in Offices with Thermal Controllable Chairs	Shintaro Hanazono, Tatsuo Nobe
ACE2.	Optimized artificial neural network model to classify tasks in construction and project management field	Trang Thi Phuong Pham
ACE3.	Application of Biological Process for Enhancing Carbonation of MgO Cement	Huyen Thanh Do, Tung Hoang
ACE4.	Detachment diagnosis based on frequency characteristics using a tile specimen with a pseudo-dissociation part	<u>Tatsuya Yamada</u> , Masaki Tamura, Nobuyuki Sanjoba
ACE5.	Pineapple Core Sugar Extract as Set Retarder in Cement Paste	Rondel Arganza Dela Cruz
ACE6.	Non-Ergodic Probabilistic Seismic Hazard Analysis using Physics-Based Ground Motion Prediction: A Case of L'Aquila, Italy	Jedidiah Joel Carlos Aguirre, Bruno Rubino, Maurizio Vasallo, Guiseppe di Guilio, Francesco Visini
ACE7.	A mathematical model of two-dimensional vertical flow based on the dual approach	The-Hung NGUYEN

Biochemistry and Food Science

Presentation	Title	
No.		
BFS1.	Crab-eating monkey acidic chitinase: strong chitinolytic	Maiko Uehara, E. Tabata and F.
	activity under the various conditions	Oyama
BFS2.	Performance of Aerobic Rice Under Different Levels of N-	Abigail R Barredo
	Fertilizer Using Surface Irrigation and Drip Fertigation	
BFS3.	The Use of Machine Vision for Postharvest Processing of	Nai-Shang Liou, Ngo Minh Tri
	Achacha Fruits	Nguyen, Quoc Thien Pham, Hoang
		Huy Nguyen

Education and Human Studies

Presentation	Title	
No.		
EHS1.	Evaluation of internal rotation gait and normal gait based on	Natsuki Sai, Tatsuro Sato, Shinichiro
	the interarticular coordination	Morichi, Satoru Kizawa, and Ayuko

		Saito
EHS2.	A study on coordination between a line of sight and motion	Toshikazu Yagi, Satoru Kizawa, and
	of body during hitting a ball with a racket	Ayuko Saito
EHS3.	Study on the movement during walking beautifully and the	Yura Honda, Shogo Takeuchi, Jun
	perception of beauty	Muramatsu, Satoru Kizawa, Masaki
		Tamura, and Ayuko Saito
EHS4.	Research on recognition of movement using an optical	Shun Shiotani, Satoru Kizawa,
	motion capture system	Masaki Tamura, and Ayuko Saito
EHS5.	A New Perspective on English Education for Engineering	Tomoko Wada
	Majors	
	-Optimizing English Education at Kogakuin University-	
EHS6.	A Practical Report on English Education at Kogakuin	Takayuki Akimoto
	University:	
	A Lesson from Basic English I/II	
EHS7.	English Education in the Age of SDGs:	Tomomi Yamada, Kazunori Suzuki
	A Survey on English Learning among Kogakuin University	
	Students	
EHS8.	An Application of CNN in Answer Analyzing and Estimation	Nguyen Hoang Mai
	Education Advanced Technology	

Electric Engineering and Electronic Engineering

Presentation	Title	
No.		
EEE1.	Examination of Improvement of Supply Stability by	Bian Ning, Yasuhiro Noro
	Introducing Wind Power Generation in Disaster-robust Zero	
	Energy Vehicle(D-ZEV)	
EEE2.	ElderFit: A Physical Fitness Motion Detection System for	Wan-Jung Chang, Jian-Ping Su
	Older Adults Based on Deep Learning Technology	
EEE3.	Investigation of the Relationship between Muscle Strength	Chun-Ju Hou, Yen-Ting Chen, Ji-Jer
	and the Power of Electromyograph Signal	Huang, and Mycel Capilayan
EEE4.	Optimization for elevation-plane beam configuration in 3D	Yuji Omura, Hiroyuki Otsuka
	beamforming technology	

Energy and Transportation

Presentation	Title	
No.		
ET1.		Jeeng-Min Ling, Firoj Ismail Mulani
	Storage and Electrical Vehicle	

Environmental Chemistry and Chemical Engineering

Presentation	Title	
No.		
ECC1.	Development of low-fouling microfiltration membranes with high permeability by blending PVDF with poly (2-methoxyethyl acrylate)	Seiya Ohno, Shin-ichi Nakao, Xiao- lin Wang, Kazuki Akamatsu
ECC2.	Application of wastewater treatment by microalgae cultivation technology for aquatic products processing facilities	Xuan Thanh Nguyen Thi, Nguyen Quốc Vương, Nguyen Hoang Minh
ECC3.	Investigation and optimization of harvesting microalgae using Electro-coagulation and flotation (ECF) method	Nguyen Nhat Cuong, Nguyen Thi Thanh Xuan
ECC4.	Separation mechanism of carbon dioxide through CHA membrane under high pressure	<u>Fumiya Hirosawa</u> , Masaya Miyagawa, and Hiromitsu Takaba

Information and Communications Technology (ICT)

Presentation	Title	
No.		
ICT1.	Beautification Algorithm for Handwritten Characters Based	Ko-Ting Wu, Qiu Chen
	on Deep Learning	
ICT2.	An approach for ceramic tile defects classification based on	Nhat-To Huynh
	genetic algorithm and CNN	
ICT3.	Creating Strong AIWolf Agents using Systematic Tactical	Shunsuke Hatta, Keisuke Takahashi,
	Evaluation	Kazunari Furukawa, Junji Yamato
ICT4.	A Study on Optical Burst Transfer Method in Torus Type	Yuya Ogino, Ken-ichi Baba
	Data Center Network	
ICT5.	Effect of cell range expansion of picocells with a wide	Ayumi Yoneyama, Hiroyuki Otsuka
	bandwidth in multiband HetNets	
ICT6.	Impact of phase noise for OFDM-based 1024-QAM	Daisuke Kosuge, Hiroyuki Otsuka
	transmission	
ICT7.	A Study of QUIC and Application Development	Jiun-Yu Tu, Pei-Ying Tsai, Ya-Ting
	·	Zhuang

Intelligent and Secure Systems

Presentation	Title	
No.		
ISS1.	Verification of Dentition Shape Extraction Method	Yutaro Iso, Kazuhiro Suga

Mechanical Engineering

Presentation	Title	
No.		
ME1.	Flow Characteristics of an Excited Jet with a Time-varying	Chisato Ichihara, K. Nishibe, and K.
	Velocity Distribution	Sato
ME2.	Influence of secondary synthetic jet on vortex arrangement in	Yu Tamanoi, Koichi Nishibe, and
	combined jet	Kotaro Sato
ME3.	Fundamental study on jet vectoring by circulation control	Shoichi Fukui, Shoichi Fukui, Qiang
	wing	Zhang, Kotaro Sato
ME4.	Performance Evaluation of Soccer Balls with Different Panel	Kaito Tada, Shinichiro Ito, and
	Shapes	Masaki Hiratsuka
ME5.	FLOW CHARACTERISTICS AROUND A DOUBLE-	Daiki Yaguchi, T. Nakayama, and K.
	SLOTTED CIRCULATION CONTROL WING	Sato
ME6.	VORTEX ARRANGEMENT OF SYNTHETIC JETS	<u>Takumi Ito</u> , Kotaro Sato
	GENERATED BY ASYMMETRIC SLOTS	
ME7.	INFLUENCE OF SECONDARY FLOW INDUCED ON	Minoru Nakagawa, K. Sato
	COANDA SURFACE ON JET DEFLECTION	
	CHARACTERISTICS	
ME8.	Interaction between Continuous Jet and Synthetic Jet under	Masaharu Mori, J. Matsuzaki, N.
	the Same Momentum Ratio Conditions	Ajino, K. Nisibe, and K. Sato
ME9.	INFLUENCE OF SECONDARY SUCTION/BLOWING	Akio Yamada, K. SATO and D.
	FLOWS ON PRIMARY JET	KANG
ME10.	Development of Self-Lubricating Slide Bearings with	Taiga Itoi, S. Kawajiri, Y. Sasaki, E.
	Sintered Porous Metals	Takami, Y. Fujita and M. Shiomi
ME11.	Development of a finite element model for mechanical	Minori Kunii, Kazuhiro Suga
	analysis on colonic stent – organs interface	
ME12.	Measurement and Compensation of the 3D Printing using	Yu-Sheng Lin
	2.5D Characterization	

Simulation Science, Measurement Science, Computational Science

Presentation	Title	
No.		
SSM1.	Effect of femur and tibia marker positions on measuring	Natsuki Nakamura, Satoru Kizawa,

	ankle joint angles in optical motion analysis	and Ayuko Saito
SSM2.	Effect of actuator on muscle force estimation using a	Takuto Hosoya, Tomoaki Ichikawa,
	musculoskeletal model	Shinichiro Morichi, Yoshikazu
		Kobayashi, Satoru Kizawa, and
		Ayuko Saito
SSM3.	Study on design of a noise covariance in pose estimation	Hayato Sato, Kentaro Goto, Satoru
	using 9-axis motion sensor	Kizawa, and Ayuko Saito
SSM4.	A study on effect of geomagnetic sensor correction for pose	Kentaro Goto, Hayato Sato, Satoru
	estimation	Kizawa, and Ayuko Saito

Synthetic Chemistry and Medicinal Chemistry

Presentation	Title	
No.		
SC1.	Surface Functionalization of Chitosan Hydrogel Using	Kathrina Lois M Taaca, Mark Jeffry
	Atmospheric Pressure	De Leon, Hideki Nakajima, Kanjana
	•	Thumanu, Eloise Prieto, and
		Magdaleno Vasquez Jr.

Lightning Talk Session

Advanced Functional Materials

Presentation	Title	
No.		
AFML1.	Effect of visible light for photocatalytic property of	Katsuyuki Takeda, Ichiro Takano
	TiO ₂ /Cu ₂ O thin films	
AFML2.	Dependence on Ar incident angles of PTFE surface treated	Yoshitaka Nakayama, Ichiro Takano
	by plasma	
AFML3.	Analysis of High Thermal Conductivity Mechanism of	Yuu Miyama, T. Kawai, and Y. Itoh
	Naphthyl Benzoate-Twin Mesogenic Epoxy Polymers with	
	Alkyl Chain Length 2 Having 2,7-Naphthyl Benzoate as the	
	Mesogenic Skeleton	
AFML4.	Hardness of alumina film formed on aluminum by anodic	<u>Takuma Sano</u> , Hidetaka Asoh
	oxidation with oxalic acid and alcohol	
AFML5.	Study on high thermal conductivity mechanism of phenyl	<u>Takeru Ishizawa</u> , T. Kawai, and Y.
	benzoate twin-mesogen epoxy polymers by vibrational	Itoh
. =	spectroscopy	
AFML6.	Influence of a CuO layer for conversion efficiency of	Masaki. Yanagisawa, Ichiro. Takano
	CuO/TiO ₂ thin films	
AFML7.	Theoretical calculation of infrared absorption spectra of	Masayoshi Tsuji, T. Kawai and Y.
	hydrogen in various polymers under high-pressure hydrogen	Itoh
AFML8.	Improvement of Electrical Property of α-In ₂ O ₃ Films Grown	Akito Taguchi, T. Onuma, T. Honda,
	by Mist Chemical Vapor Deposition Using In ₂ O ₃ Powder as	and T. Yamaguchi
	Source Precursor	
AFML9.	Study on thermal conductivities of poly(methacrylic acid	Nanako Sakai, Tadatomo Kawai, and
	ester) having azobenzene as a mesogen with different spacer	Yuzo Itoh
	carbon numbers and the end group carbon numbers	

Architectural and Civil Engineering

Presentation	Title	
No.		
ACEL1.	Evaluation of Plaster Layer of Wood lath and Plaster Ceiling	Sakura Yoshida, Kentaro Oka,
	in Non-Destructive Testing	Masaki Tamura
ACEL2.	Quantitative evaluation of the deterioration state of the	Hideto Takeuchi, Masaki Tamura
	modified wood shingle exposed outdoors and construction of	
	an index to judge the deterioration	
ACEL3.	Examination of resin repair method for wood damaged by	Yusuke Harada, Masaki Tamura
	termites	
ACEL4.	Study on transportation power in DHC area for the AEM	Ryuhei Tanaka, Yusuke Nakajima
ACEL5.	History and development of wood lath and plaster techniques	Kentaro Oka, Masaki Tamura
	in Japan	
ACEL6.	GIS-Based Assessment of Emergency Referral Systems and	Kathleen Ann E. Villapol, Jedidiah
	Ideal Locations for Ambulance Stations in the Province of	Joel C. Aguirre, Judie Ann A. Ramos,
	Cavite, Philippines	and Harvey S. Maunahan

Biochemistry and Food Science

Presentation	Title	
No.		
BFSL1.	Investigation of extraction method for antimicrobial	Toshihiro Sekizawa, Nobuhiro
	substances accumulated in aerial microalgae	Aburai, and Katsuhiko Fujii
BFSL2.	Isolation of lichen photobionts by a density gradient	Kotomi Hirose, Nobuhiro Aburai,
	centrifugation	and Katsuhiko Fujii
BFSL3.	Development of microflora which produces hydrogen from	Yuhei Hayakawa, Nobuhiro Aburai,
	digested sludge	and Katsuhiko Fujii
BFSL4.	The ability of wild Bacillus sp. to produce polyglutamic acid	Suzuka Sato, Nobuhiro Aburai, and
		Katsuhiko Fujii

BFSL5.	Screening of carotenoid-rich aerial microalgae	Yuta Hiki, Nobuhiro Aburai, and
		Katsuhiko Fujii
BFSL6.	Functional Properties of Chitin Deacetylase from Aspergillus	Hidetoshi Suzuki, Masashi Ohkura,
	fumigatus	Kazuaki Okawa and Fumitaka
		Oyama
BFSL7.	Mechanistic insights of inactivation of YKL-40, a chitinase-	Keita Suzuki, Kazuaki Okawa, and
	like protein	Fumitaka Oyama
BFSL8.	Component imaging of spheroids by using an FIB-TOF-	Tomoki Goto, Hyogo Takeuchi,
	SIMS	Mizuki Shu, Reiko Saito, Kazuya
		Matsushima, Makoto Saito, Sanshiro
		Hanada, Nobuhiko Kojima, Masato
		Morita, and Tetsuo Sakamoto

Education and Human Studies

Presentation	Title	
No.		
EHSL1.	Effects of Skin and Water Conditions on Water Surface	Kohei Kawamata, Miyuki
	Perception	G.Kamachi
EHSL2.	Influence of eating Meals on facial expressions	Mao Maekawa, Miyuki G. Kamachi
EHSL3.	A study of facilitation evaluation methods in group	Takuya Hirayanagi, Daigo Misaki
	discussions for students	

Electric Engineering and Electronic Engineering

Presentation	Title	
No.		
EEEL1.	UV-irradiated fabrication of SWCNT/SiO ₂ Composite thin	Naoki Ogawa, Hiroki Nagai, and
	film at room temperature via Molecular Precursor Method	Mitsunobu Sato
EEEL2.	Fabrication of visible-light responsive WO ₃ Thin Film <i>via</i>	Taichi Murayama, H. Nagai, and M.
	Molecular Precursor Method	Sato
EEEL3.	Remarkable mechanical flexibility of intentionally strain-	Shun Mori, Yukiya Ichinoseki,
	induced amorphous B-doped In ₂ O ₃ transparent conductive	Kotaro Watanabe, Kaito Murano,
	film	Kaito Oe and Shinya Aikawa
EEEL4.	Understanding the switching mechanism of stacked ZrO ₂ -	Keito Toyama, Ryusuke Akiyama,
	based ReRAM by insertion of SiO _x thin layer at the electrode	Kento Yuki and Shinya Aikawa
	interfaces	
EEEL5.	Residual strain in GaN nanocolumns grown on Si(111)	Naoki Goto, Y. Hosoya, T. Onuma,
		T. Yamaguchi, and T. Honda
EEEL6.	Identification of Killer Defects in β-Ga ₂ O ₃ Schottky Barrier	Masahiko Nakanishi, K. Shoji, S.
	Diodes by Raman Mapping Measurements	Masuya, M. Kasu, T. Yamaguchi, T.
		Honda, K. Sasaki, A. Kuramata, and
		T. Onuma
EEEL7.	p-type behavior of lattice-expanded SnO _x by post-deposition	Kotaro Watanabe, Takuma
	N2 annealing	Kawaguchi, and Shinya Aikawa
EEEL8.	Relationship between resistivity of NiO thin films and	Mamoru Murayama, A. Ishikawa, T.
	oxygen plasma condition at different deposition pressures	Yamaguchi, T. Honda, K. Sasaki, A.
		Kuramata, and T. Onuma
EEEL9.	Measurement of Flexoelectric Coefficient (e11-e33) Using	<u>Hiroki Shimoda</u> , Yukihiro Kudoh,
	HAN Cells with Concentric-shaped Interdigitated Array	and Taiju Takahashi
	Electrodes	
EEEL10.	Well width dependence on residual strain in high In	Kaigo Tahara, J. Yamada, T.
	composition GaInN/GaInN MQW by RF-MBE	Yamaguchi, Y. Nanishi, T. Onuma,
		T. Honda, and K. Kishino
EEEL11.	Micro scale analysis of LFP cathode of all solid state battery	Akihiro Kawasugi, Naoki Gomyo,
	by FIB TOF SIMS	Linchun He, Masato Morita, and
		Tetsuo Sakamoto
EEEL12.	Development of resonance ionization mass spectrometry	<u>Takeru Yoshida</u> , Takumi Umedate,
	imaging method for radioactive Sr isotopes analysis	Masato Morita, Tetsuo Sakamoto,
		Yue Zhao, Vollker Sonnenschein,

		Hideki Tomita, Toshihide Kawai, Takeo Okumura, Yukihiko Sato, Masabumi Miyabe and Ikuo Wakaida
EEEL13.	Trade-off relation of F concentration in CaF ₂ co-sputtered In ₂ O ₃ -based transparent conductive film	<u>Kaito Oe</u> , Shun Mori, Kotaro Watanabe and Shinya Aikawa
EEEL14.	Emission Properties of Rocksalt-structured MgZnO Microcrystals for VUV Light Emitter	Wataru Kosaka, S. Hoshi, K. Kanta, K. Kaneko, T. Yamaguchi, T. Honda, S. Fujita, and T. Onuma
EEEL15.	Analysis of aerosol in urban city air using FIB-TOF-SIMS	Kentaro Sakai, Shokei Tsuchida, Noa Kato, Masato Morita, and Tetsuo Sakamoto
EEEL16.	Validation of Spray Droplets by ESD for a New Technique of Single Cell Rapid Freezing	Takayuki Umemura, Kenta Shirasu, Masato Morita, Kumiko Nagase, Wakako Hamanaka, Masatoshi Kakihana, Tatsuo Ohira, Norihiko Ikeda and Tetsuo Sakamoto
EEEL17.	Anatase Thin-Film Fabrication by Novel Precursor Solution Involving Stable Trisoxalato Complex of Ti (IV) without O ₂ ²⁻ Coordination	<u>Takuro Murayoshi</u> , H. Nagai, and M. Sato
EEEL18.	Humidity dependency of the ionic conductivity of Li _{1+x} Al _x Ti _{2-x} (PO ₄) ₃ transparent thin films fabricated by molecular precursor method	Kazuma Aochi, H. Nagai, and M. Sato
EEEL19.	Impact on InN Buffer Layer Inserted into GaInN/GaN Interfaces By RF-MBE	<u>Daiki Itabashi</u> , Ryosuke Yoshida, Tomohiro Yamaguchi, Takeyoshi Onuma, Tohru Honda

Energy and Transportation

Presentation	Title	
No.		
ETL1.	Optimization of Service Frequency based on Short-term	Yuya Nagai, Yoshio Miki
	Passenger Forecasting on Scheduled Bus	
	-Case Study on the Route for Kogakuin University-	
ETL2.	Study on Driving Skill Analysis in Curve Sections using	Eisho Kanno, Masakazu Mukai
	Adaboost Algorithm with Driving Simulator	
ETL3.	Development of Operando Raman Analysis at the Reaction	<u>Takaaki Ono</u> , Koji Hiraoka, Hibiki
	Cross-Section of All-Solid-State Batteries	Miyauchi, Takeshi Kobayashi and
		Shiro Seki

Environmental Chemistry and Chemical Engineering

Presentation	Title	
No.		
ECCL1.	Exfoliation Behavior of Graphite in Sulfuric Acid Electrolyte	Ryuichi Maekawa, Yusuke
		Muramatsu, Takumi Hisadome, and
		Hideki Hashimoto
ECCL2.	Metylation Benzene with Methane Catalyzed by Co/MFI	Kai Tanaka, K.Okumura
	Zeolite	
ECCL3.	Preparation a Series of Polybenzimidazole Random	Hsiao-Wu Lai, Zhi-You Lin, and
	Copolymer Membranes based on a Polyphosphoric Acid	Cheng-Chien Wang
	Process	
ECCL4.	Application of single-particle electrochemical measurement	Tamotsu Sawahashi, Kasane Takai,
	for various positive electrode materials	Kei Nishikawa, Takeshi Kobayashi,
		and Shiro Seki

Information and Communications Technology (ICT)

Presentation No. ICTL1. Design Thinking-based Requirements Elicitation Method using Role-Based Prototyping and its Evaluation ICTL2. The bottleneck of MTD System Operation ICTL3. A Study on Access Control Methods in IoT Data Distribution using Fog Computing ICTL4. Non-functional Requirements Summarization Method Using Convolutional Neural Network and Domain Ontology ICTL5. Determination of intermittent defects by a method that focuses on the rows before and after the defective shot ICTL6. Transmission Control in DTN Considering Data Amount Buffering ICTL8. Preliminary Experiments for the Realization of ICN based Wireless Sensor Networks ICTL9. Personalization of Service Controller for Home Network Devices ICTL10. Parallelization of Automatic Tuning using Multiple Jobs for Machine Learning Programs ICTL11. A Method for Detecting Anomalies in IoT Devices Using LSTM ICTL12. A Study of Applying Plumtree Algorithm for Blockchain Networks ICTL13. PAPR Reduction Effect by Applying Clipping in Spectrum Suppressed Transmission ICTL14. Performance Analyses of Efficient Belief Propagation Bit-flip Decoding Schemes for Polar Codes with Permutated Factor Graphs ICTL15. Interleaving Depth Optimization for Concatenated FEC in 2.4GHz Ingenu System ICTL16. Calculated Distance Error Performances by Relay Type GPS in Shinjuku Area ICTL17. The Child's Residual Limb Model Reconstruction by using Point Cloud Data ICTL18. An Image Segmentation Method based on Unsupervised Zong-Xian Yin			T
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ICTL3.			
Using Fog Computing			
ICTL4. Non-functional Requirements Summarization Method Using Convolutional Neural Network and Domain Ontology Yuta Saikawa, Takashi Nagaoka, Takayuki Kitagawa, and Mari Inoki ICTL5. Determination of intermittent defects by a method that focuses on the rows before and after the defective shot Yusuke Takada, Yoshio Miki	ICTL3.		
Convolutional Neural Network and Domain Ontology Takayuki Kitagawa, and Mari Inoki		using Fog Computing	Osamu Mizuno
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	ICTL18.		Zong-Xian Yin
Learning Algorithms			

Intelligent and Secure Systems

8	5	
Presentation	Title	
No.		
ISSL1.	Wired cable proposal on the feasibility of a stratospheric	Koichiro Murata
	platform	
	-Background and wired connections and strategies for orbital	
	elevators-	

Mechanical Engineering

Presentation	Title	
No.		
MEL1.	Research on Motion Analysis of Pedestrians Using OpenPose	
		Miyakawa,Takashi Kato, and Daigo
		Misaki
MEL2.	Audio glasses for confining acoustic field in near field	Shuzo Terauchi, Tsutomu Kaizuka
MEL3.	Jet formation after droplet impact into water pool	Futa Minami, K. Hasegawa

MEL4.	Visualization of vibration behavior of multiple samples levitated in an acoustic field	Manami Murata, K. Hasegawa
MEL5.	Study on the presentation method of the automated driving experience simulator by wizard of oz prototyping	<u>Kazuki Miyakawa Weerakoon,</u> Genki Bamba, Takashi Kato, and Daigo Misaki
MEL6.	Development of a robot to assist in optimal parts supply at cell production sites	Shutaro Ito, Daigo Misaki
MEL7.	Development of Self-Lubricating Slide Bearings with Sintered Porous Metals	Taiga Itoi, S. Kawajiri, Y. Sasaki, E. Takami, Y. Fujita, and M. Shiomi

Simulation Science, Measurement Science, Computational Science

Presentation	Title	
No.		
SSML1.	Theoretical study on interfacial interaction of zig-zag carbon	Yurika Serizawa, Tomoe Yayama,
	nanotubes/epoxy resin nanocomposite	and Fumiko Akagi
SSML2.	Predicting of Pedestrian Trajectory Using Sequence to	Tomoya Ono, Takashi Kanamaru
	Sequence Learning with Neural Networks	
SSML3.	Separation Control around NACA0015 Airfoil using Vortex	Shota Mayahara, Makoto Sato
	Generator Type Plasma Actuator over Low Reynolds	
	Number Conditions	
SSML4.	GPS Positioning Error Improvements	Koichi Saito, Takatoshi Sugiyama
	by Number of Reflections and Incident Angle Estimations	
SSML5.	Extraction of useful products from specialty stores using	Taro Numase, Yoshio Miki
	clumpiness	
SSML6.	Examination of Measures to Encourage Unplanned	Ryou Miyokawa, Yoshio Miki
	Purchasing Using Social Norms at Specialty Stores	
SSML7.	Non-Invasive Concentration Variation Measurements of	Ruey-Ching Twu, Yi-Ren Sun
	Chemical Solutions by Using a Birefringent Sensing Head in	
	a Heterodyne Interferometer	
SSML8.	Computational Framework for Predicting the Surface	Dac - Phuc Pham, Hong - Chuong
	Morphology of Laser Powder Bed Fusion Parts after Laser	Tran
	Polishing	