MISW 2025 Program and Contents

4th August (Monday)

9:00 – 9:10 **Opening Remarks**

by Prof. Yoshitaka Kitamoto, Dean, School of Materials and Chemical Technology

9:10 – 9:15 **Photo Session**

9:15 – 9:45 | **Short Presentations**

Introduction of AOTULE Universities (5 min for each)

- 1. National Taiwan University
- 2. Korea Advanced Institute of Science and Technology
- 3. Nanyang Technological University
- 4. Chulalongkorn University
- 5. Hanoi University of Science and Technology
- 6. Indian Institute of Technology Madras

9:45 – 9:55 | Short Break

9:55 – 11:10 Oral Presentation Session A1

Digital Multi-Purpose Hall Chairperson: **Yutaka Yamada**

A1-1 Effects of Microalgae-derived Carbon Quantum Dots on Microalgae communities

ZHANG HAOGE¹, CHENG SHUO¹, Jeffrey S. Cross¹

¹Department of Transdisciplinary Science and Engineering, Institute of Science Tokyo

A1-2 Preparation and Characterisation of Polyamide 11/Nanocarbon Composite Nanofibers

Gopalan Suresh^{1,2}, Shunta Nakamura¹, Hidetoshi Matsumoto¹

¹Department of Materials Science and Engineering, Institute of Science Tokyo

²Department of Metallurgical and Materials Engineering, Indian Institute of Technology Madras

A1-3 Tungsten particle deposition on metal substrates using cold spray

Tsubasa Sanada¹, Kazuki Okada², Masahiro Yano², Toshihiko Matsuo², Hiroki Akasaka¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

²Mitsubishi Materials Corporation

A1-4 Thermodynamic calculations for by-product-free ZnS film fabrication by solution process

Katsuki Otsuka¹, Yuta Kubota¹, Nobuhiro Matsushita¹

¹Department of Material Science and Engineering, Institute of Science Tokyo

A1-5 Dispersion of Hydrogen Boride (HB) Sheets in Various Solvents

Andi Mauliana¹, Akira Yamaguchi¹, Takahiro Kondo^{2,3,4}, Masahiro Miyauchi¹

¹Department of Materials Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

²Department of Materials Science, Institute of Pure and Applied Sciences, University of Tsukuba

³The Advanced Institute for Materials Research, Tohoku University

⁴Hydrogen Boride Research Center and Tsukuba Research Center for Energy Materials Science, Institute of Pure and Applied Sciences and R&D Center for Zero CO2 Emission with Functional Materials, University of Tsukuba

9:55 – 11:10 Oral Presentation Session B1

Collaboration Room

Chairperson: ZHANG ZHUOHAO

B1-1 Measuring the Virtual Touch: Customer Experience of Avatar-mediated Service Encounters in Physical Environments

Mohamed Al Shaikh¹, Dai Senoo¹

¹Department of Industrial Engineering and Economics, School of Engineering, Institute of Science Tokyo

B1-2 Promoting Shokuiku Using an AI-Integrated Virtual Reality Game

Dong Wang¹, Nopphon Keerativoranan¹, Jeffrey S. Cross¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B1-3 Optimization of Modular Autonomous Electric Vehicle System

Chaemin Na¹, and Toru Seo²

¹Civil and Environmental Engineering, Korea Advanced Institute of Science and Technology

²Department of Civil and Environmental Engineering, School of Environment and Society, Institute of Science Tokyo

B1-4 User-friendly output model for controlling interfaces

Kai Higuchi¹, Satoshi Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

B1-5 Analyzing the Impact of Control System Design on Usability in Robotic Surgery with Consideration of Hand Dominance

Junnosuke Ichihara¹, Satoshi Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

11:10 – 11:20 | Short Break

11:20 – 12:35 Oral Presentation Session A2

Digital Multi-Purpose Hall

Chairperson: GUO CHEN

A2-1 Drying Shrinkage Mitigation for Fly Ash-Based Geopolymer Mortar Through Microstructure Transformation

Horhok Lim¹, Mitsuyasu Iwanami¹, Kazuhide Nakayama¹

¹Department of Civil and Environmental Engineering, School of Environment and Society, Institute of Science Tokyo

A2-2 Verification and Redrawing of the Phase Diagram of the CaO-Fe2O3-Al2O3 System

XIAO HONGYI¹, Takashi Watanabe¹, Hayashi Miyuki¹

¹Department of Materials Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

A2-3 Magnetic Property Optimization of Electrodeposited CoPt Nanopillars for 3D Domain Wall Motion Memory

Zihhao Dai¹, Tongshuang Huang¹, Shigeki Nakagawa¹

¹Department of Electrical and Electronic Engineering, School of Engineering, Institute of Science Tokyo

A2-4 Monte Carlo simulation Flow characteristics of molten bismuth containing of Ag by MC simulation

Yamamoto Rintaro¹, Yamazaki Takahisa¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

A2-5 Analysis of the Influence of Paper Properties on Paper Dimensional Change Behaviour during Cooling Process after Fusing in Electrophotographic Process

Keigo Furushima¹, Kimiharu Yamazaki², Shinichi Kuramoto³, Kazuyoshi Fushinobu¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

²Ricoh Company, Ltd

³Former Tokyo Institute of Technology

11:20 – 12:35 Oral Presentation Session B2

Collaboration Room

Chairperson: Bo WANG

B2-1 Signal Distortion and ToA estimation for localization in airport Multilateration systems

Lizardo Arias¹, Nopphon Keerativoranan¹, Junichi Takada¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B2-2 Thermal imaging technology using ptychography

Yugo Marutani¹, Bochao Wang^{1,2}, Kazuyoshi Fushinobu¹, Byunggi Kim¹

¹Institute of Science Tokyo

²Zhejiang University

B2-3 Numerical Analysis of Shrinkage and Creep Effects on Shear Connectors in Steel Concrete Hybrid Structures

YIWEN WANG¹, Nobuhiro Chijiwa¹

¹Department of Civil and Environmental Engineering, School of Environment and Society, Institute of Science Tokyo

B2-4 Rational design of PhaC for Enhanced Catalysis and Polymer Diversity

Nitish Jeyaraj Suja^{1,2}, Sivashankari M Ramamoorthi¹, Takeharu Tsuge¹, Rupali Reddy², Sierin Lim² ¹Department of Materials Science and Engineering, Institute of Science Tokyo

²School of Chemistry, Chemical Engineering and Biotechnology, Nanyang Technological University

B2-5 Fabrication of bio-actuators to mimic the iris dilator muscle

Hinata Arakawa¹, Kenta Shimba², Yoshitaka Miyamoto³, Tohru Yagi¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

²Graduate School of Frontier Sciences, The University of Tokyo

³National Center for Child Health and Development

12:35 – 13:55 **Lunch Break**

13:55 – 14:55 **Poster Session**

Media Hall

P-1 Toward Sustainable Energy Futures for Mongolia: An Integrated Assessment Model-based Scenario Analysis

Khukhsuvd Batsaikhan¹, Tatsuya Wakeyama¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

P-2 Computation of Defect-Induced Eigenfrequencies in Two-Dimension Elastic Half Plane Using BEM and Nonlinear Eigensolvers

Yan Yang¹, Taizo Maruyama¹

¹Department of Civil and Environmental Engineering, School of Environment and Society, Institute of Science Tokyo

P-3 Modeling residents' attitudes toward wind power facilities using ABM: The case of Wakkanai City

Shaoyu Chen¹, Wakeyama Tatsuya¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

P-4 Structural ordering of stimuli-responsive molecular units using triptycene-based supramolecular scaffolds

Jiatong Yu^{1,2}, Tomoya Fukui^{1,2,3}, Takanori Fukushima^{1,2,3}

¹Laboratory for Chemistry and Life Science, Institute of Integrated Research, Institute of Science Tokyo ²Department of Chemical Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

³Research Center for Autonomous Systems Materialogy (ASMat), Institute of Integrated Research, Institute of Science Tokyo

P-5 Bi-Chealated Silicon Quantum dots for Cell Imaging

Ya-Han Chan¹, Yuta Aida², Hayato Laurence Mizuno¹, Yasutaka Anraku¹, Shinji Ando³, Toshiyuki Ikoma¹

¹Department of Materials Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

²Department of Biomaterials, Faculty of Dental Science, Kyushu University

³Department of Chemical Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

P-6 Building automated research pipelines in social sciences

Daichi Ishii1

¹Department of Technology and Innovation Management, School of Environment and Society, Institute of Science Tokyo

P-7 Synthesis of Crystalline Oxide Nanoparticles to Catalyze Oxygen Evolution Reaction

Ariel Lee¹, Dr. Takeshi Aihara², Dr. Keiju Wachi², Dr. Keigo Kamata²

¹Department of Chemistry & Biochemistry, University of California

²Materials and Structures Laboratory, Institute of Integrated Research, Institute of Science Tokyo

P-8 Quantification of Tensile and Bending Properties of Thin Polymer Films: A Framework for **Analyzing Polymer Film Compression Behavior**

Jiayi Yu¹, Kyohei Hisano¹, Atsushi Shishido¹

¹Department of Chemical Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

14:55 – 15:05 | **Short Break**

15:05 – 16:20 Oral Presentation Session A3

Digital Multi-Purpose Hall Chairperson: Chaemin Na

A3-1 Biodegradability of Polyesteramides Based on 2-Pyrone-4,6-Dicarboxylic Acid

Wei Xin Tan^{1,2}, Yijie Jin², Atsushi Isobe², Tsuyoshi Michinobu²

¹School of Materials Science and Engineering, Nanyang Technological University

²School of Materials and Chemical Technology, Institute of Science Tokyo

A3-2 Synthesis of non-fullerene acceptor polymers for organic solar cells

Kotoki Takahashi¹, Naomasa Yomogita¹, Xingyu Yang¹, Atsushi Isobe¹, Tsuyoshi Michinobu¹ ¹Department of Materials and Chemical Technology, Institute of Science Tokyo

A3-3 Controlling Osteoblast Function on Hydroxyapatite Scaffolds via Co-substitution of Iron(III) and Silicate

Sihao Lei¹, Hyato Laurence Mizuno¹, Yasutaka Anraku¹, Toshiyuki Ikoma¹

¹Department of Material Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

A3-4 Synthesis and Optimization of Bismuth and Strontium co-substituted Apatite Nanocrystal as Radiosensitizer for Cancer Treatment

Jing Er Tan¹, Hayato Laurence Mizuno¹, Yasutaka Anraku¹, Toshiyuki Ikoma¹

¹Department of Materials Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

A3-5 Fabrication of CsPbBr3 Absorption Layer via Close-Spaced Sublimation for High Efficiency CsPbBr3 Solar Cells

Yuejie TAN1, Shinsuke Miyajima1

¹Department of Electrical and Electronic Engineering, School of Engineering, Institute of Science Tokyo

15:05 – 16:20 Oral Presentation Session B3

Collaboration Room

Chairperson: Woratat LEELAWORASET

B3-1 Endoscopic Super-Resolution Ultrasound Imaging for Pancreatic Applications in Clinical Practice

Junseok AN¹, Naohiro SUGITA², Masanori KOBAYASHI³, Hiromune KATSUDA⁴, Tadahiko SHINSHI²

¹Department of Mechanical Engineering, Institute of Science Tokyo

²Institute of Integrated Research, Institute of Science Tokyo

³Department of Gastroenterology, Soka Municipal Hospital

⁴Department of Gastroenterology and Hepatology, Institute of Science Tokyo

B3-2 A compact and low-frequency ultrasound transducer designed for minimally invasive delivery of biopharmaceuticals through skin

Shinya Yamamoto¹, Naohiro Sugita², Tadahiko Shinshi²

¹Department of Mechanical Engineering, Institute of Science Tokyo

²Institute of Integrated Research, Institute of Science Tokyo

B3-3 Proposal for a hands-free laparoscope operation system using brain wave analysis

Naoya Yamshita¹, Satoshi Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

B3-4 Flood Hazard Assessment in the Chao Phraya River: A Foundation of Risk Management

Nothrathcha Chinnasri¹, Shinjiro Kanae², Saito Tomoki²

¹Department of Environmental and Sustainable Engineering, Faculty of Engineering, Chulalongkorn University

²Department of Civil and Environmental Engineering, School of Engineering, Institute of Science Tokyo

B3-5 Research on DNA nanotubes that enable ion transport by ultrasound irradiation

Shota Yoshizaki $^{\!1}$, Zugui Peng $^{\!1}$, Kenta Shimba $^{\!2}$, Yoshitaka Miyamoto $^{\!3}$, and Tohru Yagi $^{\!1}$

¹Department of Mechanical Engineering, Institute of Science Tokyo

²Department of Transdisciplinary Sciences, School of Frontier Sciences, University of Tokyo

³Department of Maternal-Fetal Biology, National Research Institute for Child Health and

Development

16:20 – 16:30 | **Short Break**

16:30 – 17:45 Oral Presentation Session A4

Digital Multi-Purpose Hall

Chairperson: Zain Issa Falah AbuHassan

A4-1 Soft Robot-Assisted Liquid Insertion for Enteral Ventilation: Circulation of Oxygenated Fluid and Visualization of Flow

Hokuto Sakata¹, Tadahiko Shinshi¹, Toshio Takayama¹, Tasuku Fujii², Yosuke Yoneyama^{1,3},

Takanori Takebe^{1,3}

¹Institute of Science Tokyo

²Nagoya University

³Osaka University

A4-2 Development of an Intuitive Teleoperation System with a Robotic Arm for Pouring Tasks

Fumiya Kato¹, Satoshi Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

A4-3 Teleoperation of a Robotic Arm for Disassembly Tasks

Ryoya Owada¹, Satoshi Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

A4-4 Proposal for Intuitive Operation of Gastrointestinal Endoscopes

Tomoya Nakashima¹, Satoshi Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

A4-5 Simulating a Flapping-Wing Robotic Penguin: An Interactive Exploration of Kinematics and Hydrodynamics Model

Numan Amri Maliky¹, Hiroto Tanaka¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

A4-6 Environmental Disclosure Quality and Stock Liquidity

Ziqi Wang¹, Yosuke Kimura¹, Kotaro Inoue¹

¹Department of Industrial Engineering and Economics, School of Engineering, Institute of Science Tokyo

16:30 – 18:00 Oral Presentation Session B4

Collaboration Room

Chairperson: Qiuhong Huang

B4-1 Grid-Based Wireless Channel Emulation: Preliminary Evaluation on Offline Intra-Grid Path Association and Clustering for Channel Interpolation

Auksarapak Kietkajornrit¹, Nopphon Keerativoranan¹, Jun-ichi Takada¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B4-2 Optimization of Binary Reflectors for Coverage Enhancement in mmWave Bands

Cong Minh Hieu Le¹, Nopphon Keerativoranan¹, Hang Song¹, Andrey S. Andrenko¹, Jun-ichi Takada¹ School of Environment and Society, Institute of Science Tokyo

B4-3 Development of mmWave Passive Channel Sounder using Software-Defined Radio for Integrated Sensing and Communication

Shiqi Liu¹, Hang Song², Nopphon Keerativoranan¹, Jun-ichi Takada¹

¹Department of Transdisciplinary Science and Engineering, Institute of Science Tokyo

²Research Institute for Semiconductor Engineering, Hiroshima University

B4-4 Detection of Motor Imagery by Real Signal Mother Wavelet

Taiki TERANISHI¹, Akima CONNELLY², Phurin PANGPONG², Zhuohao ZHANG¹, Tohru YAGI¹ Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo ²Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B4-5 Neural Connectivity in Auditory Perception and Imagery for Speech BCIs

Zhuohao Zhang¹, Haruto Hamada¹, Phurin Rangpong², Akima Connelly², Tohru Yagi¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

²Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B4-6 Adaptive Neural Network for Inverse Variational Inequalities

Phung The Anh¹, Ken Kobayashi¹

¹Department of Industrial Engineering and Economics, School of Engineering, Institute of Science Tokyo

5th August (Tuesday)

10:00 - 11:00 Oral Presentation Session A5

Tejima Seiichi Conference Room Chairperson: Numan Amri Maliky

A5-1 Crowd-shipping via Train Networks: Optimising Parcel Delivery by Part-timers and **Commuters under Varying Occupancy Levels**

Qiuhong Huang¹, Shinya Hanaoka¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

A5-2 A comparative study of global supply chain resilience in the aircraft industry

Yutaka Yamada¹, Masako Ikegami¹

¹Department of Innovation Science, School of Environment and Society, Institute of Science Tokyo

A5-3 Understanding delay propagation trees in air transport networks

Woratat LEELAWORASET¹, Kashin Sugishita¹, Shinya HANAOKA¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

A5-4 Observation of droplet deposition with viscoelastic fluid

Tomoki Sakurai¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

10:00 - 11:00 Oral Presentation Session B5

Royal Blue Hall

Chairperson: Wei Xin Tan

B5-1 Proposal of Arranged Column Design and Optimization of the Flow Circuit for a Bioartificial Liver System via Machine Learning-augmented CFD Simulation

Dingxi Chen¹, Naohiro Sugita², Tadahiko Shinshi², Kentaro Ichimura³, Yosuke Yoneyama⁴, Maki Kumagai⁴, Takanori Takebe⁴

¹Department of Mechanical Engineering, Institute of Science Tokyo

²Institute of Integrated Research, Institute of Science Tokyo

³Graduate School of Medical and Dental Sciences, Institute of Science Tokyo

⁴Graduate School of Medicine, The University of Osaka

B5-2 CFD Analysis of Dynamic Pressure-Induced Stiffness in a Pediatric Magnetically Levitated

Ventricular Assist Device

Khushi Rele¹, Tadahiko Shinshi²

¹Department of Mechanical Engineering, Indian Institute of Technology Madras

²Institute of Integrated Research, Institute of Science Tokyo

B5-3 Predicting Hydrogen Permeability in Palladium Alloys Using Machine Learning

Eric KOLOR¹, Koichi MIKAMI¹, Jeffrey S. CROSS¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B5-4 Structure-based Adsorption Affinity of PFAAs on Integrated Hydrophobic-electrostatic **Surfaces: DFT-D and Molecular Dynamics Simulations**

Thilini Maheshika Herath¹, Manabu Fujii¹

¹Department of Civil and Environmental Engineering, School of Environment and Society, Institute of Science Tokyo

11:00 - 11:10 **Short Break**

11:10 - 12:10 Oral Presentation Session A6

Teiima Seiichi Conference Room

Chairperson: SIHAO LEI

A6-1 Object detection for Advanced-Driver-Assistance-Systems using 5G/6G sensing

S.J.Karthik¹, J.Takada¹, N.Keerativoranan¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

A6-2 Turbo Delay-Doppler Channel Estimation of Orthogonal Time Frequency Space Signal for **Integrated Sensing and Communication**

Rong Tang¹, Nopphon Keerativoranan¹, Tad Matsumoto², Jun-ichi Takada¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society ²School of Information Science, Japan Advanced Institute of Science and Technology

A6-3 Effect of Tire-Derived Pollutants on Soil Health: Enzymatic and Microbial Responses

Snehal Wasnik¹, Shou Cheng¹, Jeffery Scott Cross¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

A6-4 Evaluation of the Influence of Key Actors Who Changed Opinion within the Organization **Using a Dynamics Model**

Naoki Suyama¹, Masako Ikegami¹

¹Department of Innovation Science, School of Environment and Society, Institute of Science Tokyo

11:10 - 12:10 Oral Presentation Session B6

Royal Blue Hall

Chairperson: Yuejie TAN

B6-1 Synthesis of SrTiO₃ with Oxygen Vacancies for Photocatalytic Degradation of Methylene Blue in Wastewater Treatment

M. Rafli Habibillah^{1,2}, Tomotaka Sugimura², Akira Yamaguchi², Masahiro Miyauchi²

¹Chemical Engineering, Faculty of Engineering, Chulalongkorn University

²Department of Materials Science and Engineering, School of Materials and Chemical Technology, Institute of Science Tokyo

B6-2 Dispersion analysis of Guided Waves under Radiation Boundary Conditions using perfectly matched layers

Ruigang QIN1, Taizo Maruyama1

¹Department of Civil and Environmental Engineering, School of Environment and Society, Institute of Science Tokyo

B6-3 Influence of Eutrophic Reservoirs on Dissolved Organic Matter and its Photochemical Reactivity in Rivers

Guo CHEN¹, Zhongyu GUO², Ye ZHANG¹, Chihiro YOSHIMURA¹

¹Department of Civil and Environmental Engineering, School of environment and society, Institute of Science Tokyo

²IRCELYON, CNRS, France

B6-4 Measuring the effect of cognitive dissonance induced by waste presented as art on improving perceptions of waste

Bo Wang¹, Vinayak Gupta¹, Fumitake Takahashi¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

12:10 – 13:30 **Lunch Break**

13:30 - 14:30 | Plenary Lecture

Turning Materials Informatics into Real-World Solutions – A Startup Journey –

Mitsuru Irie¹

¹MI-6 Ltd.

14:30 - 14:40 | Short Break

14:40 - 15:40 Oral Presentation Session A7

Tejima Seiichi Conference Room

Chairperson: Horhok Lim

A7-1 Study on economic security legislation - A case of military strategic material

Akifumi Kokabu¹, Masako Ikegami¹

¹Department of Innovation Science, School of Environment and Society, Institute of Science Tokyo

A7-2 International collaborative development and domestic development of defense equipment:

Typhoon and Rafale

Genyo Takahashi^{1,2}

¹Department of Innovation Science, School of Environment and Society, Institute of Science Tokyo ²Education Division, JASDF Commond and Staff College

A7-3 Enhancing Cross-Cultural Understanding of Waste Bin Pictograms: A Study on Foreign Users' Recognition

HUANG XIAOYUN1

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

A7-4 Conditions under which Nash equilibrium is Pareto efficient and stability analysis in a noncooperative system with altruism

Minh Pham Hong^{1,2}, Tomohisa Hayakawa¹

¹Department of Systems and Control Engineering, School of Engineering, Institute of Science Tokyo

²Department of Automatic Control, School of Electrical and Electronic Engineering, Hanoi

University of Science and Technology

14:40 - 15:40 Oral Presentation Session B7

Royal Blue Hall

Chairperson: ZIQI WANG

B7-1 Evaluation of Comfortableness in Urban Street Environment

Wun-Sin You^{1,2}, Yasunori Muromachi¹

¹Department of Civil Engineering, School of Engineering, Institute of Science Tokyo

²Department of Civil Engineering, School of Engineering, National Taiwan University

B7-2 Unconventional Articulation of Behaviour on Horizontal Surfaces in Urban Contemporary Japanese Houses

Zain AbuHassan¹, Yoshiharu Tsukamoto¹

¹Department of Architecture and Engineering, School of Environment and Society, Institute of Science Tokyo

B7-3 Do spatial, social and cognitive proximity affect Consumers' Ethical Coffee Purchasing Behavior? A comparative study between Colombia and Japan

Manuela Parra¹, Naoya Abe¹

¹Department of Transdisciplinary Science and Engineering, School of Environment and Society, Institute of Science Tokyo

B7-4 Control of a robot arm for a laparoscopic simulation

A. Chalmeau¹, J. Hichihara¹, S.Miura¹

¹Department of Mechanical Engineering, School of Engineering, Institute of Science Tokyo

15:40 - 15:50 Short Break

15:50 – 16:50 Game

16:50 – 18:20 **Award Ceremony & Banquet**