

The International Joint Workshop & Conference IWRIS2019 – TPJIAC2019 (October 17-18, 2019)

Workshop Room: Regional Innovation Hall, Building C, Regional Innovation Center, Mie University

I. First Day: October 17 (Thursday)

9:00-9:05 **Opening**

Hideto Miyake (Dean of Graduate School of Regional Innovation Studies, Mie University)

Invited Lecture

Presentation time: total 25 minutes (presentation: 20 minutes + discussion: 5 minutes)

(I-1) 9:05-9:30

Japanese education situation in Cambodia —Focus on learning motives, learning styles and problem of Japanese learners in higher education at Royal University of Phnom Penh—

Loch Leaksmy

Department of Japanese, Royal University of Phnom Penh, Cambodia

Session 1

Presentation time: total 15 minutes (presentation: 10 minutes + discussion: 5 minutes)

Bell Timing: 8 minutes, 10 minutes, 14 minutes

1) 9:30-9:45

Building peace and nonviolence across school communities in Guinea

Cisse Facinet¹, Hitoshi Susono², Hye-Sook Park³

¹Graduate school of Regional Innovation Studies, Mie University

²Center for integrated research and development, Faculty of Education, Mie University

³Faculty of Humanities, Law and Economics, Mie University

2) 9:45-10:00

City Formation and Housing Market in Shenzhen City, China

Hua Wan

Graduate School of Regional Innovation Studies, Mie University

3) 10:00-10:15

Issues Regarding Effective Learning of English for Students in Japan

Yuri Takahashi¹, Said Ahmad Shah², Norihiro Nishimura¹

¹Graduate school of Regional Innovation Studies, Mie University

²Graduate school of Medicine, Mie University

4) 10:15-10:30

Determination of the chemical structure of Calcium in sesame seeds

Moe Shioda¹, Toru Tashiro², Hirotaka Katsuzaki³, Takashi Mishima³

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Horticulture, Chiba University

³Graduate School of Bioresources, Mie University

10:30-10:40 Break

Session 2

5) 10:40-10:55

Consideration of Incentives for Compensated Volunteer Drivers

Through the Social Experiment of Rideshare in Kihoku-town in Mie Pref. Japan

Kazuaki Izutani

Graduate School of Regional Innovation Studies, Mie University

6) 10:55-11:10

Experimental Study on Turbulent Thermal Mixing of Hot and Cold Airflows in HVAC Unit for Automobile Air-Conditioning System

Masahiro Koyama¹, Masafumi Hirota², Naoki Maruyama² and Akira Nishimura²

¹Graduate School of Regional Innovation Studies, Mie University

²Department of Mechanical Engineering, Mie University

7) 11:10-11:25

Electrochemical Reduction of CO₂ at Au-deposited Carbon Nanofiber / Carbon Electrode in methanol

Ryoki Matsumoto¹, Mai Furukawa², Ikki Tateishi³, Hideyuki Katsumata², Satoshi Kaneco^{2,3}

¹Graduate School of Regional Innovation Studies, Mie University

²Department of Chemistry, Graduate School of Engineering, Mie University

³Global Environment Center for Education & Research, Mie University

8) 11:25-11:40

Weather Information and its Application to Energy Sector

Jeongin Kim¹, Hyeonjeong Kim¹, Sangmin Lee²

¹Department of Economics, Chung-Ang University, Korea

²Economics of Climate change, Chung-Ang University, Korea

9) 11:40-11:55

Patent Breadth and Innovation Performance in Taiwan's Semiconductor Industry

Chia-Hui Huang¹ and ○Shu-Wei Chuang¹

¹Department of Economics, Aletheia University, Taiwan

10) 11:55-12:10

Funding Sources and Innovation Performance in Taiwan's Electronics Industry

Chia-Hui Huang¹, Yu-Ling Fang¹ and ○Tong Jyun Yu¹

¹Department of Economics, Aletheia University, Taiwan

11) 12:10-12:25

Virtual Reality Applied To the Heritage Park Tour

Jhong-Jin Liou¹, Chiung-En Huang¹ and Yang-Chih Hu²

¹Department of Industrial Management and Enterprise Information, Aletheia University, Taiwan

² College of General Education, Hungkuang University, Taiwan

12) 12:25-12:40

Traceability Innovations For The Global Supply Chain Of The Philippine Tuna Industry

Jennifer B. Cabaron¹, Mylah R. Bomediano²

Graduate SBE, University of San Carlos, Philippines

12:40-13:40 Lunch Time

Invited Lectures

(I-2) 13:40-14:05

Self-passivated high-efficiency micro-LEDs using sapphire nano-membrane technology

Jongmyeong Kim¹, Seungmin Lee¹, Jehong Oh¹, Jungel Ryu¹, Yongjo Park¹ and Euijoon Yoon^{1,2,3}

¹Department of Materials Science and Engineering, Seoul National University, Korea

²Research Institute of Advanced Materials (RIAM), Seoul National University, Korea

³Inter-university Semiconductor Research Center (ISRC), Seoul National University, Korea

(I-3) 14:05-14:30

AlGaN based E-beam pumped deep ultraviolet light sources

X.Q. Wang¹, Y.X. Wang¹, X. Rong¹, T. Wang¹, Z.Y. Chen¹, S.V. Ivanov², S.P. Guo³,
H. Miyake⁴, P. Wang¹, V. Kozlovsky⁵, Z.X. Qin¹ and Bo Shen¹

¹School of Physics, Peking University, China

²Ioffe Institute, Russia

³Advanced Micro-Fabrication Equipment Inc., China

⁴Graduate School of Regional Innovation Studies, Mie University

⁵P. N. Lebedev Physical Institute, Russia

Session 3

13) 14:30-14:45

Annihilation mechanism of threading dislocations of MOVPE-grown AlN on annealed sputtered AlN template with nano-patterned sapphire substrate

Yukino Iba¹, Kanako Shojiki¹, Kenjiro Uesugi², Shigeyuki Kuboya², Shiyu Xiao³ and Hideto Miyake^{1,3}

¹Grad. Sch. of Eng., ²SPORR, ³Grad. Sch. of RIS, Mie Univ.

14) 14:45-15:00

HVPE growth of AlN on stripe patterned sapphire substrates with sputter-deposited annealed AlN film

Taichi Nishimori¹, Shiyu Xiao², Kanako Shojiki¹, Hideto Miyake^{1,2}

¹Graduate School of Engineering, Mie Univ.

²Graduate School of Regional Innovation Studies, Mie Univ.

15) 15:00-15:15

Selective-area MOVPE growth of AlN on annealed sputter-deposited AlN films

Shin Kawabata¹, Kanako Shojiki¹, Kenjiro Uesugi², Shigeyuki Kuboya², Xiaotong Liu³ and Hideto Miyake^{1,3}

¹Graduate School of Engineering, Mie University

²Strategic Planning Office for Regional Revitalization, Mie University

³Graduate School of Regional Innovation Studies, Mie University

16) 15:15-15:30

Electrical properties of HEMT fabricated on annealed sputtered AlN templates

Tatsuya Shirato¹, Kenjiro Uesugi², Shigeyuki Kuboya², Kanako Shojiki¹ and Hideto Miyake^{1,3}

¹Graduate School of Engineering, Mie University

²Strategic Planning Office for Regional Revitalization, Mie University

³Graduate School of Regional Innovation Studies, Mie University

17) 15:30-15:45

Ultrathin barrier AlN/GaN heterostructures grown by Molecular Beam Epitaxy

Liuyun Yang¹, Jingyue Wang¹, Wenjie Zhang¹, Tao Wang¹, Ding Wang^{1,2}, Xiaosong Wu¹, Xinqiang Wang¹

¹State Key Laboratory of Artificial Microstructure and Mesoscopic Physics, School of

Physics, Peking University, China

²Microsystem and Terahertz Research Center, China Academy of Engineering Physics, China

15:45-15:55 Break

Session 4

18) 15:55-16:10

Handwritten Hiragana Character Recognition using Convolutional Neural Network (CNN) with Fixed Convolution Filters

Naoki Hayashishita¹, Shinji Tsuruoka¹ and Hiroharu Kawanaka¹

¹Graduate School of Engineering, Mie University

19) 16:10-16:25

Regression Analysis between Optical Coherence Tomography Image and Postoperative Visual Function

Shohei Suzuki¹, Shinji Tsuruoka¹, Hiroharu Kawanaka¹, Yoshitsugu Matsui², Atsushi Ichio², Yoko Mase²

¹Graduate School of Eng., Mie University

²Graduate School of Medicine, Mie University

20) 16:25-16:40

A Measurement of Hand Motor Function for Dementia Evaluation

Kanta Umemura¹, Hiroharu Kawanaka¹ and Shinji Tsuruoka¹

Department of Electrical and Electronic Engineering, Mie University

Invited Lectures

(I-4) 16:40-17:05

Korean SDG and Status of Sustainable Production and Consumption (SCP)

Jeong-in Kim

Department of Economics, Chung-Ang University, Korea

(I-5) 17:05-17:30

Heat Wave Issues and Relationship with Climate Change and Fine Particulate Matter Air Pollution

Jong-in Dong

Department of Environmental Engineering, The University of Seoul, Korea

18:00-20:00 **Banquet** (Cafeteria 2 on campus)

II. Second Day: October 18 (Friday)

Invited Lecture

Presentation time: total 25 minutes (presentation: 20 minutes + discussion: 5 minutes)

(I-6) 9:00-9:25

Social Innovation in a University: The Center for Social Entrepreneurship of the University of San Carlos - School of Business and Economics

Melanie Banzuela-de Ocampo¹, Allan O. Gozon² and Lauro Cipriano R. Silapan, Jr.³

^{1,3}School of Business and Economics, University of San Carlos, Philippines

²Department of Business Administration, University of San Carlos, Philippines

Session 5

Presentation time: total 13 minutes (presentation: 10 minutes + discussion: 3 minutes)

Bell Timing: 8 minutes, 10 minutes, 12 minutes

21) 9:25-9:38

Social Innovation, Behavior Change and Energy Efficiency Digital Platforms

Julius P. Relampagos

School of Business and Economics, University of San Carlos, Philippines

22) 9:38-9:51

Adoption of Green Marketing Strategies: A Stakeholder's Approach

Ethel H. Dicedican

Business Administration Department, School of Business and Economics, University of San Carlos, Philippines

23) 9:51-10:04

Assessment of an Accountancy Training Program of a University: Basis for Academic Policy Recommendations

Eleanor D. Paclijan¹ and Marissa M. Baldecir²

^{1,2}Department of Accountancy, School of Business & Economics, University of San Carlos, Philippines

24) 10:04-10:17

The MSMEs Sector in Mandaue City, Cebu, Philippines: Its Growth, Opportunities, and Challenges

Roberto H. Visitacion¹, Maria Angelita Ramona L. Valles², Jovenal M. Arnaiz³, and Kristian Marc H. Cabahug⁴

Department of Business Administration, School of Business and Economics, University of

San Carlos, Philippines

25) 10:17-10:30

An Assessment of the High Value Manufacturing Firms in the City of Mandaue, Cebu, Philippines

○Roberto H. Visitacion¹, Maria Angelita Ramona L. Valles², Jovenal M. Arnaiz³, and Kristian Marc H. Cabahug⁴

Department of Business Administration, School of Business and Economics, University of San Carlos, Philippines

26) 10:30-10:43

The Profiling of Micro, Small, and Medium Enterprises (MSMEs) in the City of Mandaue, Cebu, Philippines

Roberto H. Visitacion¹, Maria Angelita Ramona L. Valles², ○Jovenal M. Arnaiz³ and Kristian Marc H. Cabahug⁴

Department of Business Administration, School of Business and Economics, University of San Carlos, Philippines

10:43-10:53 Break

Invited Lecture

(I-7) 10:53-11:18

On the “Japanese-ness” as a change facilitator, a diversity holder and a society sustainer

Tomoko Kato

Faculty of Business Administration, Seijoh University

Session 6

27) 11:18-11:31

Information, Media and Technological (IMT) Skills of the Pre-service Teachers

Helen B. Boholano

College of Teacher Education, Cebu Normal University, Philippines

28) 11:31-11:44

Social Innovation through Community Based Tourism

Cecil S. Gantalao¹, Demetrio S. Anticuando²

^{1,2}Department of Hospitality and Tourism, University of San Carlos, Philippines

29) 11:44-11:57

Motivational Influence on Household Spending Across Life Cycle Stages in Three Economic

Eras in the Philippines

Angelo O. Burdeos

BA Department, University of San Carlos, Philippines

30) 11:57-12:10

An Institutional Analysis of Collective Action Among Rice Farmers in Communal Irrigation Systems in Bohol, Philippines

Jan Lorenzo G. Alegado¹, Isabelita M. Pabuayon², Salvador P. Catelo³ and Jose V. Camacho, Jr.⁴

^{1,2,3,4}Department of Economics, University of San Carlos, Philippines

31) 12:10-12:23

Water Demand Side Management as a Needed Innovation to Address Urban Water Scarcity in the Philippines

Francisco M. Largo

Department of Economics, University of San Carlos, Philippines

12:23-13:36 Lunch Time

Invited Lecture

(I-8) 13:36-14:01

Effect of Silicanite Addition and Fermentation Period on Growth and Yield of Chinese Kale (*Brassica oleracea* var. *alboglabra*)

Preuk Chutimanukul

Department of Agricultural Technology, Faculty of Science and Technology, Thammasat University

Session 7

32) 14:01-14:14

Taiwan Elderly Long-Term Special Age Care

Chia-Chen Wu

Meijo University, Japan

33) 14:14-14:27

The 5 Financial Indicators for Stock Selection: Value, Size, Liquidity, Momentum, and Earnings Revision

Ming-Chin Chin and ○Chen-Feng Kuo

Department of Economics, Aletheia University, Taiwan

34) 14:27-14:40

The Analysis of Stock Selection Using Momentum Strategy on Japan Nikkei 225 Index from 2009 to 2018

Ming-Chin Chin¹, Yi-Yun Hsieh², ○Wen-Chen Wu³

^{1,3}Department of Economics, Aletheia University, Taiwan

²College of Business Graduate Institute of International Business Administration, Chinese Culture University

35) 14:40-14:53

Current Status and Development of Taiwan-Japan Industry Cooperation: Evidence from Tokai Region in Japan

Kuan-Ju Lin¹ and ○Yahn-Shir Chen²

¹Department of International Business and Trade, Aletheia University

²Department of Accounting, National Yunlin University of Science and Technology

36) 14:53-15:06

The Hon Hai Acquisition of Sharp and Its Effects on the Both Companies

Kuan-Ju Lin¹ and ○Tzu-Wen Sung²

^{1,2}Department of International Business and Trade, Aletheia University, Taiwan

15:06-15:16 Break

Invited Lecture

(I-9) 15:16-15:41

Implementation of “English Songwriting” as a Teaching Activity

Shu-Chin Su¹, Tang Ling²

¹Department of English, the Tamsui Campus of Aletheia University, Taiwan

²School of Economics and Trade, Guangdong University of Foreign Studies, China

Session 8

37) 15:41-15:54

Roles of Research Meetings in Managing R&D Projects: A Case of the Uses of Project Objectives and Milestones by University Scientists

Teh-Yuan Chang

Department of Business Administration, Aletheia University, Taiwan

38) 15:54-16:07

Application of the Bootstrap-Corrected Causality Tests on the Environmental Factors in China

Hsiao-Fen Chang

Department of Accounting Information, Aletheia University, Taiwan

39) 16:07-16:20

An Analysis of the Determinants of Inbound Tourists Expenditure in Taiwan

Chun-Yu Tsai¹, ○Shu-Ying Yeh² and Hsiao-Fen Chang³

¹Gorilla Technology Group, Quality Measure Department, Taiwan

²Aletheia University, Department of Statistical Information and Actuarial Science, Taiwan

³Aletheia University, Department of Accounting Information, Taiwan

40) 16:20-16:33

This Causal Model of Public Servants' Social Support and Public Service Motivation on Turnover Intention

Hsiang Te Liu¹, ○Hung Hwei Liu²

¹Department of Public Affairs, Ming Chuan University, Taiwan

²Department of English, Aletheia University, Taiwan

41) 16:33-16:46

The longest war in the 20century —The 40 years of Sino-US Soviet Cold War —

Hsiung-Shen Jung

Department of Applied Japanese, Aletheia University, Taiwan

16:46-16:51 **Closing**

Hideto Miyake (Dean of Graduate School of Regional Innovation Studies, Mie University)