

The 14th International Workshop on Regional Innovation Studies (IWRIS2022: October 13, 2022)

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

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

Bell Timing: 8 minutes, 10 minutes, 14 minutes

10:00-10:05 **Opening**

Issei Kobayashi (Dean of Graduate School of Regional Innovation Studies, Mie University)

Session 1 Engineering for Regional Innovation

1) 10:05-10:20

Realization of Al-Polar Annealed Sputtered AlN Using an Al Metal Target

Takumi Hashimoto¹, Kanako Shojiki^{2,4}, Kenjiro Uesugi^{1,3}, Shiyu Xiao² and Hideto Miyake²

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Engineering, Mie University

³Mie Regional Plan Co-creation Organization, Mie University

⁴Graduate School of Engineering, Osaka University

2) 10:20-10:35

Dependence of Substrate Off-cut Angle on N-polar Annealed Sputtered AlN and MOVPE-grown AlN

Gaku Namikawa¹, Kanako Shojiki^{1,4}, Riku Yoshida², Kenjiro Uesugi^{2,3} and Hideto Miyake¹

¹Graduate School of Engineering, Mie University

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⁴Graduate School of Engineering, Osaka University

3) 10:35-10:50

A Study on Classification of Semiconductor Defective Wafer Maps by Using Convolutional Autoencoder

Seima Sakaguchi, Hiroharu Kawanaka, Tetsushi Wakabayashi

Graduate School of Engineering, Mie University

4) 10:50-11:05

Development of Input Device for Kestenberg Movement Profile Using a Pen Tablet

Yoshihiko Hirabayashi¹, Yukari Sakiyama² and Hiroharu Kawanaka³

¹Graduate School of Regional Innovation Studies, Mie University

²Department of Education, School of Education, Mukogawa Women's University

³Graduate School of Engineering, Mie University

11:05-11:15 Break

Invited Lecture

Presentation time: total 30 minutes (presentation: 20 minutes + discussion: 10 minutes)

(I-1) 11:15-11:45

Energy Saving by PV-Heatpump for Cooling and Heating in Smart Building and Agriculture

Tanongkiat Kiatsiriroat, Thoranis Deethayat and Attakorn Asanakham

Department of Mechanical Engineering, Faculty of Engineering, Chiang Mai University,
Thailand

Session 2 Bio-Science for Regional Innovation

5) 11:45-12:00

Development of a sample preparation method for apramycin residue analysis in livestock products by LC–MS/MS

Hideki Ogasawara^{1,2}, Mari Seko², Hiroshi Akiyama^{3,*}, Takeo Yano¹

¹Graduate School of Regional Innovation Studies, Mie University

²Tokai-techno co., ltd, Yokkaichi, Japan;

³National Institute of Health Science, Kawasaki, Japan.

*Present position: Hoshi University, Tokyo, Japan.

6) 12:00-12:15

Joint research with regional company on respirable fibers generated at carbon fibers-reinforced plastics (CFRP) processing work site

Jun Kumoi¹, Akihiko Ikegami², Yuji Fujitani³, Kota Morikawa⁴, Gaku Ichihara⁴, Takeo Yano¹,
Sahoko Ichihara²

¹Graduate School of Regional Innovation Studies, Mie University

²Department of Environmental and Preventive Medicine, Jichi Medical University School of
Medicine

³National Institute for Environmental Studies

⁴Department of Occupational and Environmental Health, Tokyo University of Science

12:15-13:15 Lunch Time

Invited Lecture

Presentation time: total 30 minutes (presentation: 20 minutes + discussion: 10 minutes)

(I-2) 13:15-13:45

Popular Culture and Country Image: Japan, South Korea, and Taiwan

Chih-Pin Lin

Department of Business Administration, Aletheia University, Taiwan

Session 3 Social Engineering I for Regional Innovation

7) 13:45-14:05

EU's Free Trade Maintenance Struggling and the Affecting Elements Under Perspective of Internationalism and Official Development Assistance of Germany

Nguyen Ngoc Xuan Thu¹, Truong Anh Tai²

¹School of Advanced Study, HCMCOU – Ho Chi Minh City Open University, Vietnam

²Department of Business Administration, Aletheia University, Taiwan

8) 14:05-14:25

Does Innovation Stimulate Sales Performance? Evidence from Taiwan

Chia-Hui Huang, Hsing-Wei Tseng and *Jian-Fu Chen

Department of Economics, Aletheia University, Taiwan

9) 14:25-14:45

A comparative discussion on the sustainable development of PM2.5 in Taiwan and its methods

Hung-Wei Li and Jhong-Jin Liou

Department of Industrial Education, National Taiwan Normal University, Taiwan

10) 14:45-15:05

How Well Do We Fare? Impact of Global Regional Economic Integration on Taiwan and Countermeasures Taken

Kuan-Ju Lin¹ and *Yaling Chen²

¹ Department of International Business and Trade, Aletheia University, Taiwan

² Department of English, Aletheia University, Taiwan

15:05-15:15 Break

Session 4 Social Engineering II for Regional Innovation

11) 15:15-15:30

Analysis of financial statements submitted by medical corporations in Tokyo Prefecture
- Case analysis and future challenges

Yusuke Fukuyama

Graduate School of Regional Innovation Studies, Mie University

12) 15:30-15:45

Change of "parent-child relationship" and discourse in Japanese magazines: Preliminary discussion by historical sociological approach

Ryo Konishi

Graduate School of Regional Innovation Studies, Mie University

13) 15:45-16:00

Current Status and Issues of Disaster Measure Support System in Two Southern Coastal Regions in Mie, And Some Proposals

Yoko Fukuda

Graduate School of Regional Innovation Studies, Mie University

14) 16:00-16:15

Proposal of measures to eliminate information disparity through the function of information transmission mediated by "Idobata-Kaigi"

-A Study on Behavioral Change of Citizen Reporters Appearing on Cable Television and Elderly Citizens-

Naoto Tanabe

Graduate School of Regional Innovation Studies, Mie University

16:15-16:25 Break

Session 5 Social Engineering III for Regional Innovation

15) 16:25-16:45

Influence of lithium-ion traction battery on ELV management and alliance strategy of car manufacturers

Nanako Ide and Hisatsuna Mori

Graduate School of Regional Innovation Studies, Mie University

16) 16:45-17:00

Development of Region by Renewable Energies

Taro Komai¹, Hideto Miyake² and Masaaki Bannai¹

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Engineering, Mie University

17) 17:00-17:15

Ethical Dilemmas on Tofu Industry Environmental Management in Cibuntu Tofu Industry

Center in Bandung City, West Java, Indonesia

Dafi Dinansyah Wiradimadja and Hisatsuna Mori

Graduate School of Regional Innovation Studies, Mie University

17:15-17:20 **Closing**

Keita Suwabe (Vice Dean of Graduate School of Regional Innovation Studies, Mie University)