

The Seventh International Workshop on Regional Innovation Studies
(IWRIS2015)
Program (October 15-16, 2015)

Workshop Room: Hall 3F, Building of Regional Innovation Studies, Mie University

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

Bell Timing: 8 minutes, 10 minutes, 14 minutes

I. First Day: October 15 (Thursday)

10:10-10:15 **Opening**

Issei Kobayashi (Dean of Graduate School of Regional Innovation Studies)

Session 1 Engineering I for Regional Innovation

Session chairs: Mikihiro Kanou and Hideto Miyake

1) 10:15-10:30

Extraction and Recognition of Dot-Matrix Characters

Koshi Suzuki, Wataru Ohyama, Tetsushi Wakabayashi, Fumitaka Kimura

Graduate School of Engineering, Mie University

2) 10:30-10:45

A Study on Dementia Evaluation Using Facial Expression Recognition

Tomoaki Shigemori, Kaito Nakamura, Hiroharu Kawanaka, Haruhiko Takase

Graduate School of Engineering, Mie University

3) 10:45-11:00

Training Algorithm for Spike Train in SpikeProp - Adding Units During Training -

Takuya Toyota, Haruhiko Takase, Hiroharu Kawanaka, Shinji Tsuruoka

Graduate School of Engineering, Mie University

Session 2 Engineering II for Regional Innovation

Session chairs: Takashi Mishima and Naoya Torikai

4) 11:15-11:30

Automatic Region Detection for Myocardial Motion Tracking Using M-mode
Echocardiograms

Masashi Hamaguchi, Wataru Ohyama, Tetsushi Wakabayashi, Fumitaka Kimura
Graduate School of Engineering, Mie University

5) 11:30-11:45

Usefulness of Computer-Assisted Diagnosis System for Tunnel Face Image

Noriko Kato, Kouta Sawai, Tsuyoshi Arakawa, Shinji Tsuruoka

Graduate School of Regional Innovation Studies, Mie University

6) 11:45-12:00

A Study on Nuclei Segmentation Accuracy for Tissue Specimen Analysis of Brain
Histopathology Images

Kiichi Fukuma¹, Hiroharu Kawanaka¹, Surya Prasath², Bruce J. Aronow³, Haruhiko Takase¹

¹Graduate School of Engineering, Mie University

²University of Missouri, MO, USA

³Cincinnati Children's Hospital Medical Center, OH, USA

12:00-13:30 **Lunch Time**

Session 3 Invited Lectures

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

Session chair: Norihiro Nishimura

(I-1) 13:30-14:00

Bitcoin Reconsidered: Quite a Bit of Innovation, Not a Bit of Coin.

Tzu-Wen Sung

Department of International Business and Trade, Aletheia University, Taiwan R.O.C.

(I-2) 14:00-14:30

Suppression of Upper Urinary Tract Urothelial Carcinoma by the Ethanol Extract of
Silkworm Pupa-Cultivated *Cordyceps Militaris* Fruit Body through G2/M-phase Arrest

Ting-Feng Wu¹, Jyun-Yi Ma¹, Chien-Tai Cheng²

¹Department of Biotechnology, Southern Taiwan University of Science and Technology,
Tainan, Taiwan R.O.C.

²Nan Pao Resins Chemical Co. LTD

(I-3) 14:30-15:00

Attempt of the Royal University of Phnom Penh Japanese Department - Japanese and
Japanese Culture Spread Caravans -

Loch Leaksmy

Royal University of Phnom Penh/Department of Japanese, Head Department of Japanese,

Phnom Penh, Kingdom of Cambodia

Session 4 Molecular Biology for Regional Innovation

Session chairs: Yasuaki Kagaya and Takeo Yano

7) 15:15-15:30

Direct Microbial Production of Higher Alcohols from Cellulose

Shunsuke Ichikawa¹, Shuichi Karita²

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Bioresources, Mie University

8) 15:30-15:45

Substrate-binding Affinities of GH Family 5 Cellulase from *Clostridium Thermocelum*

Yuki Namikawa¹, Shuichi Karita²

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Bioresources, Mie University

9) 15:45-16:00

The Fermentation Feedstock Production from Cellulosic Biomass by the Engineered Bacterium

Maiko Ichihara¹, Shunsuke Ichikawa², Shuichi Karita¹

¹Faculty of Bioresources, Mie University

²Graduate School of Regional Innovation Studies, Mie University

Session 5 Social Engineering for Regional Innovation

Session chairs: Takahiko Aoki and Issei Kobayashi

10) 16:15-16:30

The Value Formation Process and Industrial Development of the Yokkaichi Banko Ceramics

Hisao Nishiura¹, Motoi Goto², Hye-Sook Park²

¹Graduate School of Regional Innovation Studies, Mie University

²Faculty of Humanities, Law and Economics, Mie University

11) 16:30-16:45

Reform of Local Governments Will Lead to Regional Revitalization - Based on the Result of a Questionnaire -

Yoshikazu Okaishi^{1,2}, Yoshimasa Murata², Shinji Tsuruoka³

¹Graduate School of Regional Innovation Studies, Mie University

²Scinex Corporation

³Graduate School of Engineering, Mie University

12) 16:45-17:00

The Relationships Between the Physiological Responses at Different Intensities of Endurance Exercise, Oxidative Stress and Antioxidant Capacity

Kosuke Taniguchi¹, Masaaki Sugita²

¹Graduate School of Regional Innovation Studies, Mie University

²Faculty of Education, Mie University

17:00-19:00 **Banquet** (Restaurant PASEO on campus)

II. Second Day: October 16 (Friday)

Session6 Engineering III for Regional Innovation

Session chairs: Hisanori Yagami and Hideto Miyake

13) 9:30-9:45

Research of Small Hydro Power Plants for the Purpose of Regional Innovation

Bai Huapu, Masaaki Bannai

Graduate School of Regional Innovation Studies, Mie University

14) 9:45-10:00

Verification Experiments of Robot System for Emotions Expressed by Physical Motions.

- Analysis of "Bunraku" Puppet Motion -

Shinobu Nakagawa¹, Shinji Tsuruoka², Hiroshi Taguchi², Kouichi Osuka³, Hirofumi Tamai⁴,
Izumi Egami⁵, Chika Izuta⁶

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Engineering, Mie University

³Osaka University

⁴Muscle Company

⁵Tsukuba University

⁶Osaka University of Arts

15) 10:00-10:15

Automatic High-precision Alignment for Heliostat Using Attached Camera

Shunsuke Asai¹, Wataru Ohyama¹, Tetsushi Wakabayashi¹, Fumitaka Kimura¹, Kazuya Sawayama², Takeshi Matukawa²

¹Graduate School of Engineering, Mie University

²Hikari Kikai Seisakusho Co., Ltd

16) 10:15-10:30

Influence of the Blended Homopolymer on Microphase-separated Structure of Two-component Triblock Copolymers with Different Molecular Sequences

Keisuke Mogari¹, Ryosuke Himeno², Naoya Torikai^{1,2}

¹Graduate School of Regional Innovation Studies, Mie University

²Faculty of Engineering, Mie University

Session7 Engineering IV for Regional Innovation

Session chairs: Sahoko Ichihara and Masaaki Bannai

17) 10:45-11:00

Self-Learning Environment of Software Testing for Learners with High Programming Potential

Zhiao Yuan¹, Hidehiko Kita²

¹Graduate School of Regional Innovation Studies, Mie University

²Graduate School of Engineering, Mie University

18) 11:00-11:15

A Learning Method for SpikeProp without Redundant Spikes - Suppress Redundant Weights According to Spike Time -

Takashi Matsumoto, Haruhiko Takase, Hiroharu Kawanaka, Shinji Tsuruoka

Graduate School of Engineering, Mie University

19) 11:15-11:30

Analysis of Typing Process to Answer Descriptive Quiz - A Discussion of Reason for Suspension of Typing Process -

Kenji Hayakawa, Haruhiko Takase, Hiroharu Kawanaka, Shinji Tsuruoka

Graduate School of Engineering, Mie University

11:30-11:35 **Closing**

Issei Kobayashi (Dean of Graduate School of Regional Innovation Studies)