The Sixth International Workshop on Regional Innovation Studies (IWRISZ014) Temporal Presentation Program (Oct. 16-17, 2014)

- i) Workshop Room: Hall 3F, Building of Regional Innovation Studies Mie University
- ii) Presentation Time: Oral Presentation: 10 min., Q&A: 5min., Total: 15 min. Presentation Bell: 8min., 10min., 14min.

I. FIRST DAY : 16 OCTOBER (THURSDAY)

10:10-10:15 Opening Speech of International Workshop

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

10:15-11:00 Session 1 Molecular Biology I for Regional Innovation

Session chairs: Issei Kobayashi and Shuichi Karita

(1) 10:15 Mechanism of the DNA Damage Induced by Incomplete DNA Methylation

- Analysis of Hemimethylated DNA -

Akihiro Ikuno¹, Shin Ogata¹ and Katsuzumi Okumura¹

¹ Graduate School of Bioresources, Mie University

- (2) 10:30 DNA Damage Induction Mechanism with the DNA Hypomethylation
 - Depletion of DNMT1 by DNA Methylation Inhibitor 5-aza-2'-deoxycytidine -
 - Yuta Murabayashi¹, Hideaki kaneoka¹, Kenji Kuriya¹, Shin Ogata¹ and Katsuzumi Okumura^{1, 2}
 - ¹Graduate School of Bioresources, Mie University
- (3) 10:45 Analyses of DNA Replication and Cell Cycle Using Zebrafish-derived Cells
 - Kenji Kuriya¹, Eriko Higashiyama¹, Eriko Avsal-Ban¹, Yutaka Tamaru¹, Shin Ogata¹ and Katsuzumi Okumura¹

¹ Graduate School of Bioresources, Mie University

11:00-11:45 Session 2 Molecular Biology II for Regional Innovation

Session chairs: Takeo Yano and Sahoko Ichihara

(4) 11:00 Shortage of Food Nutrition Induces DNA Damage and Delays DNA Replication

Yuta Minamigawa¹, Shin Ogata and Katsuzumi Okumura¹

¹ Graduate School of Bioresources, Mie University

(5) 11:15 Genome-wide Changes of DNA Methylation of Regenerated Rice and Possibility of the Artificial Orientation

Taeko Furihata¹, Yuhko Kobayashi¹ and Issei Kobayashi¹

¹ Graduate School of Regional Innovation Studies, Mie University

(6) 11:30 Genetic Modification in Food Industry

Sun Yupeng¹ and Issei Kobayashi¹

¹ Graduate School of Regional Innovation Studies, Mie University

11:45-13:20 Lunch Time

	Oral Presentation Time: 20 min., Q&A: 10min., Total: 30 min.
1	Session chairs: Norihiro Nishimura
I-1)	13:20 Development of Japan-Taiwan Industrial Alliance: The Case of Industrial Cooperatio
ł	between Mie Prefecture, Japan, and Taiwan
]	Kuanju Lin ¹
¹ (College of Finance and Economic, Aletheia University, New Taipei, Taiwan, Republic of China
I-2)1	4:00 Induction of Apoptosis by Antrodia cinnamomea Mycelium from Solid-fermentation in Huma
l	Non-small Cell Lung Carcinoma A549 Cell
(Chun-Sheng Chang ¹
1	Dept. of Biotechnology, Southern Taiwan University of Science and Technology, Taiwan
I-3)1	4:30 On the Effect of Quantum Barrier Thickness in the Active Region of Nitride-Based Light
]	Emitting Diodes
(Chun-Kai Wang ¹ Y. Z. Chiou ¹ , S. J. Chang ² , C. Y. Chang ² , T. H. Chiang ³ and T. K. Lin ³
1]	Dept. of Electronic Engineering, Southern Taiwan University of Science and Technology, Taina
	71005, Taiwan
2 I	institute of Microelectronics & Department of Electrical Engineering, National Cheng Kung
1	University, Tainan 70101, Taiwan
3	Epistar Corporation, Tainan 744, Taiwan

15:15-16:30 Session 4 Biomedical and Welfare Engineering for Regional Innovation Session chairs: Masaaki Bannai and Takashi Mishima

(7) 15:15 Automatic Extracting Method of Multi-Boundary in Retinal Layer for 3D Optical Coherence Tomography Image

Nguyen Ngoc Anh Huyen¹, Shinji Tsuruoka², Hiroharu Kawanaka¹, Haruhiko Takase¹, Hisashi Matsubara³, Hisanori Yagami⁴ and Fumio Okuyama⁵

- ¹ Graduate School of Engineering, Mie University
- ² Graduate School of Regional Innovation Studies, Mie University
- ³ Graduate School of Medicine, Mie University
- ⁴ Intellectual Property Office, Community University Research Cooperation Center, Mie University
- ⁵ Graduate School of Health Science, Suzuka University of Medical Science, Mie,
- (8) 15:30 Comparative Study on Feature Descriptors for Characterizing Disease Tissue of Brain Images Kazuhiko Tamaki¹, Hiroharu Kawanaka¹, Bruce Aronow², Haruhiko Takase¹ and Shinji Tsuruoka³
 - ¹ Graduate School of Engineering, Mie University
 - ² Cincinnati Children's Hospital Medical Center, Cincinnati, Ohio, USA

³ Graduate School of Regional Innovation Studies. Mie University

- (9) 15:45 A Study on Shapes Distribution of Grip Forms for Comfortable Grip Form Designing Yuji Sasano¹, Kazuyoshi Takahashi², Hiroharu Kawanaka¹, Koji Yamamoto³, Haruhiko Takase¹ and Shinji Tsuruoka⁴
 - ¹ Graduate School of Engineering, Mie University
 - ² Banzai Factory Inc., Iwate
 - ³ Suzuka University of Medical Science, Mie
 - ⁴ Graduate School of Regional Innovation Studies, Mie University
- (10) 16:00 Development of Dementia Evaluation System Using Conversations and Drawing Tests Tomoaki Shigemori¹, Hiroharu Kawanaka¹, Haruhiko Takase¹ and Shinji Tsuruoka²
 - ¹ Graduate School of Engineering, Mie University
 - ² Graduate School of Regional Innovation Studies, Mie University
- (11) 16:15 A New Robot Therapy to Delay Progression of Dementia for Elderly Patients by Arousing Emotions of Them.
 - Shinobu Nakagawa^{1,2} and Shinji Tsuruoka¹
 - ¹ Graduate School of Regional Innovation Studies, Mie University
 - ² Design department, Osaka University of Arts, Osaka

II. SECOND DAY: 17 OCTOBER (FRIDAY)

9:00-10:15 Session 5 Educational and Learning Engineering for Regional Innovation

Session chairs: Kazunori Yamamori and Masataka Kubo

- (12) 9:00 Supporting System for Quiz in Large Class
 - A Method to Visualize Usage of Keyword -
 - Tomoya Oba¹, Haruhiko Takase¹, Hiroharu Kawanaka¹ and Shinji Turuoka²
 - ¹ Graduate School of Engineering, Mie University
 - ² Graduate School of Regional Innovation Studies, Mie University
- (13) 9:15 Automatic Keyword Extraction from Descriptive Answers of Quiz
 - Effectiveness of Database to Extract Keywords--
 - Kenji Hayakawa¹, Haruhiko Takase¹, Hiroharu Kawanaka¹ and Shinji Tsuruoka²
 - ¹ Graduate School of Engineering, Mie University, Mie, Japan
 - ² Graduate School of Regional Innovation Studies, Mie University, Mie, Japan
- (14) 9:30 Suppress Redundant Spikes in Extended SpikeProp
 - -Effect of Adjustment of Weight Decay Parameters -
 - Takashi Matsumoto¹, Yuta Shin^{1,} Haruhiko Takase¹, Hiroharu Kawanaka¹ and Shinji Tsuruoka²
 - ¹ Graduate School of Engineering, Mie University
 - ² Graduate School of Regional Innovation Studies, Mie University
- (15) 9:45 Improvement for Input-Output Characteristic of SpikeProp Networks
 - Input Patterns that Cause Discontinuous Output Change -
 - Yoichiro Kitagawa¹, Haruhiko Takase¹, Hiroharu Kawanaka¹ and Shinji Tsuruoka²

¹Graduate School of Engineering, Mie University

- ²Graduate School of Regional Innovation Studies, Mie University
- (16) 10:00 High Speed Extraction Method for Character Lines on a Handwritten Examination Paper Katsunari Goto¹, Shinji Tsuruoka¹, Haruhiko Takase², Hiroharu Kawanaka², Chinthaka Premachandra³ and Hisanori Yagami ⁴
 - ¹ Graduate School of Regional Innovation Studies, Mie University
 - ² Graduate School of Engineering, Mie University
 - ³ Graduate School of Engineering, Tokyo University of Science, Katsushika, Tokyo
 - ⁴ Community University Research Cooperation Center, Mie University

10:30-11:45 Session 6 Computer Aided System for Regional Innovation

Session chairs: Katsuya Kodama and Shinji Tsuruoka

(17) 10:30 Segmentation and classification of the added marks (Dakuten: ` and Handakuten: `) for personal Hiragana character recognition

Isamu Fujii¹, Hiroharu Kawanaka¹, Haruhiko Takase¹, Hisanori Yagami² and Shinji Tsuruoka³

- ¹ Graduate School of Engineering, Mie University
- ² Community School Research Cooperation Center, Mie University
- ³ Graduate School of Regional Innovation Studies, Mie University
- (18) 10:45 Vocational Guidance System for selecting Companies Using the Interested Class Subjects of a Student

Hiroshi Yoshida¹, Shinji Tsuruoka¹, Hisanori Yagami³, Hiroharu Kawanaka² and Haruhiko Takase²

- ¹ Graduate School of Regional Innovation Studies, Mie University
- ² Graduate School of Engineering, Mie University
- ³ Community University Research Cooperation Center, Mie University
- (19) 11:00 Automatic Generation of Crack Sketch Image for Tunnel Face Image

Kouta Sawai¹, Tsuyoshi Arakawa¹, Noriko Kato^{1,2}, Hisanori Yagami³, Haruhiko Takase⁴,

Hiroharu Kawanaka⁴ and Shinji Tsuruoka¹

- ¹Graduate school of Regional Innovation Studies, Mie University
- ² Mie Office of River and National Highway, Chubu Regional Bureau, Ministry of Land, infrastructure and Transport
- ³ Community University Research Cooperation Center, Mie University
- ⁴ Graduate School of Engineering, Mie University
- (20) 11:15 Improvement of the Automatic Generation of Deformed Maps by Road Abbreviation Yuya Hijikata¹ and Kazunori Yamamori¹
 - ¹Graduate School of Regional Innovation Studies, Mie University
- (21) 11:30 Optimization of the Spatial Arrangement of Sun Light Reflecting Mirrors (Heliostats) Ryosuke Naruse ¹ and Masaaki Bannai¹
 - ¹Graduate School of Regional Innovation Studies, Mie University
 - 11:45 Closing Speech: Workshop Program Chair: Shinji Tsuruoka