Code	ID	Paper Title	Author Names	Remarks

LA-7   November 22 (Thursday) 10:10-12:40   Room301

Pattern Analysis and Recognition

Organizer: Ravil Mukhamedyev (Information Technology International University), Olzhas Makhambetov (Nazarbayev University)

Session Chair: Lyazzat Atymtayeva (Kazakh-British Technical University)

Code	ID	Paper Title	Author Names	Remarks
T1-31-1	135	Applications of data mining to an online argumentation based learning assistance platform	Chenn Jung Huang , National Dong Hwa University; Yu Wu Wang, National Dong Hwa University; Shun-Chih Chang, National Dong Hwa University; Shu-Yi Lin, National Dong Hwa University; Jhe-Hau Tseng, National Dong Hwa University; Jui Jiun Jian, National Dong Hwa University	
T1-31-2	201	A Study on Plane Extraction From Distance Images Using 3D Hough Transform	Yosuke Ishida, Tokyo University of Science; H. Chinthaka N. Premachandra, Tokyo University of Science; Kiyotaka Kato, Tokyo University of Science	
T1-31-3	229	Imbalanced Data Classification using Random Subspace Method and SMOTE	Hsiao-Yun Huang, Fu-Jen Catholic University; Yi-Jhen Lin, Fu-Jen Catholic University; Youg-Siang Chen, Fu-Jen Catholic University; Hung-Yi Lu, Fu-Jen Catholic University	
T1-31-4	234	Semisupervised Nonnegative Matrix Factorization for Learning the Semantics	Bin Shen, Purdue University; Zhanibek Datbayev, Purdue University; Olzhas Makhambetov, Center for Energy Research	(Teleconference)
T1-31-5	264	Geophysical Research of Boreholes: Artificial Neural Networks Data Analysis	Ravil Muhamedyev, International IT University; Yan Kuchin, International IT University; Elena Muhamedyeva, International IT University	(Teleconference)
T1-31-6	505	Feature Selection for Heavy Rain Prediction Using Genetic Algorithms	Jaedong LEE, Sungkyunkwan University; Jaekwang Kim, Sungkyunkwan University; Jee-Hyong Lee, Sungkyunkwan University; Ik-Hyun Cho, Korea Meteorological Administration; Jeong-Whan Lee, Korea Meteorological Administration; Kyoung-Hee Park, Korea Meteorological Administration; JeongGyun Park, LG CNS	

YM-1-2   November 22 (Thursday) 10:10-11:25   Room401

Human Symbiotic Systems II

Organizer: Yoichiro Maeda (University of Fukui), Daisuke Katagami (Tokyo Polytechnic University), Yasutake Takahashi (University of Fukui)

Session Chair: Tomohiro Yoshikawa (Nagoya University)

Code	ID	Paper Title	Author Names	Remarks
T1-41-1	237	Affective Motion for Pleasure-Unpleasure Expression in Behavior of Robots	Meitoku Okumura, Nagoya Institute of Technology; Masayoshi Kanoh, Chukyo University; Tsuyoshi Nakamura, Nagoya Institute of Technology; Yoshihiko Murakawa, Fujitsu Laboratories Ltd.	
T1-41-2	443	Music Conductor Gesture Recognized Interactive Music Generation System	Shuai Chen, University of Fukui; Yoichiro Maeda, University of Fukui; Yasutake Takahashi, University of Fukui	
T1-41-3	444	Human Intention Recognition via Eye Tracking Based on Fuzzy Inference	Mao Wang, Fukui University; Yoichiro Maeda, University of Fukui; Yasutake Takahashi, University of Fukui	

IH-4   November 22 (Thursday) 11:25-12:40   Room401

Multi Mordal Interface

Organizer: [Chair] Naoki Saiwaki (Konan University), Katsunari Sato (Keio University)

T1-41-4	168	Vision-based Force Sensor for Touch Panel Devices using Built-in Camera	Katsunari Sato, Keio University; Yoichi Watanabe, Keio University; Yasutoshi Makino, Keio University; Takashi Maeno, Keio University	
T1-41-5	315	EffectON—enriching impressions of motions and physically changing motions via synchronous sound effects	Shimon Akiyama, Keio University; Katsunari Sato, Keio University; Yasutoshi Makino, Keio University; Takashi Maeno, Keio University	
T1-41-6	317	Combination Analysis of Motion and Melody in Phrase Animation	Midori Yamazaki, University of Tsukuba; Kenkichi Ishizuka, University of Tsukuba; Takehisa Onisawa, University of Tsukuba	

G-19-2   November 22 (Thursday) 10:10-11:25   Room402

System Analysis and Optimization II

Organizer: [Chair] Kazutoshi Sakakibara (Ritsumeikan University)

T1-42-1	404	Mathematical Programming Model Concerning City and Urban Traffic	Takuya Matsumoto, Hyogo Prefectural Institute of Technology; Tsutomu Inamoto, Kobe University; Hisashi Tamaki, Kobe University	
T1-42-2	415	Chaotic Behavior in Complex Shop Scheduling	Hideo Ikeda, Kobe Steel, Ltd.	
T1-42-3	436	Integer Programming Approach for a Class of Staff Scheduling Problems - Schedule Optimization and Parameter Estimation -	Makoto Ohara, Kobe University; Hisashi Tamaki, Kobe University	

JS-12   November 22 (Thursday) 11:25-12:40   Room402

Artificial Life

Organizer: [Chair] Reiji Suzuki (Nagoya University)

T1-42-4	44	Macro and Micro Environment for Diversity of Behaviour in Artificial Life Simulation	Eugene Ch'ng, IBM VISTA, do.Collaboration	
T1-42-5	360	Emergence of defensive strategies based on predator-prey co-evolution in 3D physical simulation	Takashi Ito, Nagoya University; marcin Pilat, Nagoya University; Reiji Suzuki, Nagoya University; Takaya Arita, Nagoya University	
T1-42-6	482	Blending defined on difference, and an implementation using dynamical approach	Takuma Torii, Japan Advanced Institute of Science and Technology; Takashi Hashimoto, Japan Advanced Institute of Science and Technology	

A-2   November 22 (Thursday) 10:10-12:40   Room403

Control and Automation

Session Chair: Hugang Han (Prefectural University of Hiroshima)

T1-43-1	82	Development of a GUI-based Mobile Control Console for Digital Conference Systems	Tsung-Hsing Lin, BXB Electronics Co., Ltd.; Chiao-Hsuan Chuang, BXB Electronics Co., Ltd.; Tung-Lin Lee, BXB Electronics Co., Ltd.; Liang-Bi Chen, BXB Electronics Co., Ltd.; National Sun Yat-Sen University; Yung-Chang Tseng, BXB Electronics Co., Ltd.; Chih-Lin Hung, BXB Electronics Co., Ltd.	(Teleconference)
T1-43-2	150	Fuzzy Sliding-Mode Control for a Class of Nonlinear Systems with Time Delays and Uncertainties	Hugang Han, Prefectural University of Hiroshima	
T1-43-3	308	Discrete Sliding Mode Control using Multirate Output Feedback for motion servo system	Rafidah Ngadengon, Universiti Tun Hussein Onn Malaysia; Rozaimi Ghazali, Universiti Tun Hussein Onn Malaysia	
T1-43-4	369	Mathematical Modeling And Dynamic Simulation of Intermediate Point Temperature for Ultra-supercritical Once-through BoilerⅠ	Shihe Chen, Electric Power Research Institute of Guangdong Power Grid Corporation; Xin Li, Wuhan University; Zhenyu Wang, Wuhan University; Yanjun Fang, Wuhan University	
T1-43-5	370	Mathematical Modeling And Dynamic Simulation of Intermediate Point Temperature for Ultra-supercritical Once-through BoilerⅡ	Yanjun Fang, Wuhan University; Zhenyu Wang, Wuhan University	
T1-43-6	485	Implementation of Bi-directional Optical EtherCAT with Single Optical Core of WDM for Industrial Automation	Youngchul Bae, Chonnam National University; Yongseon Moon, Sunchon National University; Youngpil Lee, REDONE TECHNOLOGY	

G-7   November 22 (Thursday) 10:10-12:40   Room404

Complex Adaptive System

Organizer: [Chair] Saori Iwanaga (Japan Coast Guard Academy)

T1-44-1	25	Contagion and Diversity of Preference	Saori Iwanaga, Japan Coast Guard Academy; Akira Namatame, National Defense Academy	
T1-44-2	287	Evaluation of Combat Simulation from Network Perspective	Hiroshi Sato, National Defense Academy; Masao Kubo, National Defense Academy; Akira Namatame, National Defense Academy	
T1-44-3	350	Adaptation of Game AIs using Genetic Algorithm: Keeping Variety and Suitable Strength	Kokolo Ikeda, Japan Advanced Institute of Science and Technology; Yu Tanaka, Japan Advanced Institute of Science and Technology; Simon Viennot, Japan Advanced Institute of Science and Technology; Quoc Nguyen, Japan Advanced Institute of Science and Technology; Youhei Ueda, Japan Advanced Institute of Science and Technology	
T1-44-4	384	Moves by Taking Account into Other Players in Othello	Hisashi Handa, Kindai University	
T1-44-5	403	Team Formation Estimation using Cluster Analysis and Triangulation Model	Hidehisa Akiyama, Fukuoka University; Tomoharu Nakashima, Osaka Prefecture University; Shigeto Aramaki, Fukuoka University	
T1-44-6	440	Evaluation of Automatic Summarization Methods by being Compared with Manually Summarized Texts on BBS Survey Web Sites	Masao Kubo, National Defense Academy; Tatsuro Ishii, National Defense Academy ; Hiroshi Sato, National Defense Academy	

HS-1-2　November 22 (Thursday) 10:10-12:40　　　　　　　Room405

Data Analysis and Decision Making with Stochasitc and Soft Computing Techniques II

Organizer: [Chair] Hideki Katagiri (Hiroshima University), Takashi Hasuike (Osaka University)

T1-45-1	17	Interactive Decision Making for Fuzzy Random Multiobjective Linear Programming Problems with Variance-Covariance Matrices Through Probability Maximization	Hitoshi Yano, Nagoya City University	
T1-45-2	126	Analysis of Backscatter from Chipless Metal Patch RFID Using Soft Computing Techniques	Kyohei Chiba, Iwate Prefectural University; Goutam Chakraborty, Iwate Prefecture University; Somnath Mukherjee, RB Technology	
T1-45-3	153	Using Genetic Algorithm Improve the Consistency of Fuzzy Analytic Hierarchy Process	Wang Chien-Hua, Yuan Ze University; Pang Chin-Tzong, Yuan Ze University; Liu Sheng-Hsing, Yuan Ze University	
T1-45-4	156	Mining Association Rules Uses Fuzzy Weighted FP-Growth	Wang Chien-Hua, Yuan Ze University; Liu Sheng-Hsing, Yuan Ze University; Pang Chin-Tzong, Yuan Ze University	
T1-45-5	248	Construction of Response Surface Model for Diesel Engine Using Stepwise Method	Bambang Wahono, Waseda University; Harutoshi Ogai, Waseda University	
T1-45-6	332	Robust Random Fuzzy Portfolio Selection Model with Arbitrage Pricing Theory Using TS Fuzzy Reasoning Method	Takashi Hasuike, Osaka University; Hideki Katagiri, Hiroshima University; Hiroshi Tsuda, Doshisha University	

SK-1　November 22 (Thursday) 10:10-11:50　　　　　　　Room406

Biosignal Processing for Psychosomatic Research

Organizer: [Chair] Suguru N. Kudoh (Kwansei Gakuin University), Kohzoh Yoshino (National Institute of Advanced Industrial Science and Technology (AIST))

T1-46-1	32	Hippocampal Response to Emotional Stimuli to Evaluate Personality Stability in fMRI	Yuko Mizuno-Matsumoto, University of Hyogo; Takuto Hayashi, Aino University; Eika Okamoto, University of Hyogo; Daisuke Miwa, University of Hyogo; Tetsuya Asakawa, University of Hyogo; Makoto Kato, National Institute of Information and Communications Technology; Tsutomu Murata, National Institute of Information and Communications Technology	
T1-46-2	87	An analysis of neural activations measured with the near infrared spectroscopy during working memory tasks	Yutaro Ogawa, The University of Tokyo; Kiyoshi Kotani, The University of Tokyo; Yasuhiko Jimbo, The University of Tokyo	
T1-46-3	408	Personal optimization method to estimate mood using heart rate variability in daily life	Kohzoh Yoshino, National Institute of Advanced Industrial Science and Technology; Katsunori Matsuoka, National Institute of Advanced Industrial Science and Technology	
T1-46-4	527	Behavioral organization of locomotor activity and its modeling	Toru Nakamura, The University of Tokyo; Yoshiharu Yamamoto, The University of Tokyo	

A-3　November 22 (Thursday) 10:10-12:40　　　　　　　Room504

Soft Computing: Theory and Systems

Session Chair: Yusuke Nojima (Osaka Prefecture University)

T1-54-1	38	Consensus of Agents with Fuzzy State	Gabriele Oliva, University Campus BioMEdico ; Roberto Setola, University Campus Bio-Medico; Stefano Panzieri, University Roma Tre	

T1-54-2	73	Evolving Conditional Branch Programs in Tierra-based Asynchronous Genetic Programming	Tomohiro Harada, The University of Electro-Communications; Yoshihiro Ichikawa, The University of Electro-Communications; Keiki Takadama, The University of Electro-Communications	
T1-54-3	105	Creating New Functions in A P2P Network Using A Source Routing Based Method and A Genetic Algorithm	Qian Cheng, Kyushu institute of technology; Kei Ohnishi, Kyushu Institute of Technology	
T1-54-4	144	Test System for Defect Detection in Construction Materials with Ultrasonic Waves by Support Vector Machine and Neural Network	Saowanee Saechai, Sirindhorn International Institute of Technology, Thammasat University; Waree Kongprawechnon, Thammasat University; Raktipong Sahamitmongkol, Thammasat University	
T1-54-5	230	Some Properties of Intuitionistic Fuzzy Bitopological Spaces	Seok Jong LEE, Chungbuk National University; Jin Tae KIM, Chungbuk National University	
T1-54-6	500	Comparison of Different Fitness Functions in Genetic Fuzzy Rule Selection	Masakazu Yamane, Osaka Prefecture University; Akihito Ueda, Osaka Prefecture University; Naoshi Tadokoro, Osaka Prefecture University; Yusuke Nojima, Osaka Prefecture University; Hisao Ishibuchi, Osaka Prefecture University	

IH-1   November 22 (Thursday) 10:10-11:00   Room505
Computational and Mathematical Modeling of Neural Systems
IH-2   November 22 (Thursday) 11:00-11:50   Room505
Computational Methods in Neuroscience
IH-3   November 22 (Thursday) 11:50-12:40   Room505
Mathematical Modeling of Neural Systems
Organizer: Keiji Miura (Tohoku University), [Chair] Kazutaka Takahashi (University of Chicago), Kazuki Nakada (Kyushu University)

T1-55-1	29	Spike-timing dependent plasticity with release probability supported to eliminate weight boundaries and to balance the excitation of Hebbian neurons	Subha Fernando, Nagaoka University of Technology; Koichi Yamada, Nagaoka University of Technology	
T1-55-2	255	Silicon Neuron Design based on Phase Reduction Analysis	Kazuki Nakada, Kyushu University; Keiji Miura, Tohoku University; Tetsuya Asai, Hokkaido University	
T1-55-3	104	Are synchronous neurons in the cortex unique?	Kazuhiro Sakamoto, Tohoku University; Naohiro Saito, Tohoku University School of Medicine; Hajime Mushiake, Tohoku University School of Medicine	
T1-55-4	276	Granger causality analysis of state dependent functional connectivity of neurons in orofacial motor cortex during chewing and swallowing	Kazutaka Takahashi, University of Chicago ; Lorenzo Pesce, University of Chicago; Jose Iriarte-Diaz, University of Chicago; Matt Best, University of Chicago; Sanggyun Kim, UC San Diego; Todd Coleman, UC San Diego; Nicholas Hatsopoulos, University of Chicago; Callum Ross, University of Chicago	
T1-55-5	122	Effects of Noise Correlations on Population Coding	Keiji Miura, Tohoku University	
T1-55-6	244	Synchronization Analysis of Resonate-and-Fire Neuron Models with Delayed Resets	Keiji Miura, Tohoku University; Kazuki Nakada, Kyushu University	