

Code	ID	Paper Title	Author Names	Remarks
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TI-2-1 November 23 (Friday) 16:10-18:15

Room301

Intelligent Agent Based Evolutionary Computation I

Organizer: [Chair] Akira Hara (Hiroshima City University), Takumi Ichimura (Prefectural University of Hiroshima)

F2-31-1	27	Behavioral Analysis in the Agent-Based Simulation of Centipede Games	Tomohiro HAYASHIDA, Hiroshima University; Ichiro Nishizaki, Hiroshima University; Yuya Sugeo, Hiroshima University	
F2-31-2	94	Clustering and Retrieval Method of Immunological Memory Cell in Clonal Selection Algorithm	Takumi Ichimura, Prefectural University of Hiroshima; Shin Kamada, Prefectural University of Hiroshima	
F2-31-3	204	Altruism Simulation based on Pheromone Evaporation and Its Diffusion in Army Ant Inspired Social Evolutionary System	Takumi Ichimura, Prefectural University of Hiroshima; Yoshiaki Douzono, Prefectural University of Hiroshima	
F2-31-4	242	Particle swarm optimization combining diversification and intensification through complex networks for nonlinear programming problems	Takeshi Matsui, Hiroshima University; Masatoshi Sakawa, Hiroshima University	
F2-31-5	285	Heterogeneous Particle Swarm Optimization Including Predator-Prey Relationship	Akira Hara, Hiroshima City University; Kazumasa Shiraga, Hiroshima City University; Tetsuyuki Takahama, Hiroshima City University	

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Room401

Health Care Informatics II

Organizer: Haruhiko Nishimura (University of Hyogo), Kilho Shin (University of Hyogo), [Chair] Yuko Mizuno-Matsumoto (University of Hyogo)

F2-41-1	362	The Mobile Environment of EHR Browsing Verified on Tablet Terminal	Naoto Kume, Kyoto University Hospital; Yosuke Hirayama, Kinki University; Naoki Ohboshi, Kinki University; Kazuya Okamoto, Kyoto University Hospital; Tadamasu Takemura, Kyoto University Hospital; Kenji Araki, Miyazaki University Hospital; Hiroyuki Yoshihara, Kyoto University Hospital	
F2-41-2	430	The Effects of Stress States in the Brain	Takuto Hayashi, Aino University; Yuko Mizuno-Matsumoto, University of Hyogo; Eika Okamoto, University of Hyogo; Makoto Kato, National Institute of Information and Communications Technology; Tsutomu Murata, National Institute of Information and Communications Technology	
F2-41-3	454	Development of an environment for information reuse on a hospital information system	Tadamasu Takemura, University of Hyogo; Naoto Kume, Kyoto University Hospital; Kazuya Okamoto, Kyoto University Hospital; Tomohiro Kuroda, Kyoto University Hospital; Hiroyuki Yoshihara, Kyoto University Hospital	

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Room401

Intelligent Informatics for Biomedical Research

Organizer: [Chair] Natthakan Iam-On (Mae Fah Luang University), Tossapon Boongoen (Royal Thai Air Force Academy), Chris Price (Aberystwyth University)

F2-41-4	226	Algorithms for Automatic Extraction of Feature Values of Corneal Endothelial Cells using Genetic Programming	Tomoyuki Hiroyasu, Doshisha University; Sakito Nunokawa, Doshisha University; Hiroaki Yamaguchi, Doshisha University; noriko Koizumi, Doshisha University; Naoki Okumura, Doshisha University; Hisatake Yokouchi, Doshisha University	
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F2-41-5	447	Fully Automatic Brain Segmentation for Alzheimer's Disease Detection from Magnetic Resonance Images	Chaturaphat Tanchi, Chiang Mai University; Nipon Theera-Umpon, Chiang Mai University; Sansanee Auephanwiriyaikul, Chiang Mai University	
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G-10-1 November 23 (Friday) 16:10-17:50

Room402

Intelligent Control I

Organizer: Kazuyuki Kobayashi (Hosei University), Seiji Yasunobu (University of Tsukuba)

Session Chair: Hiroshi Takahashi (Shonan Institute of Technology)

F2-42-1	34	H_∞ controller with graphical LMI region profile for Gantry Crane System	Mohd Zaidi Mohd Tumari, Universiti Malaysia Pahang; Mohd Riduwan Ghazali, Universiti Malaysia Pahang; Muhammad Salihin Saealal, Universiti Malaysia Pahang; Yasmin Abd Wahab, Universiti Malaysia Pahang	
F2-42-2	63	Performance Comparison between Sliding Mode Controller SMC and Proportional-Integral-Derivative PID Controller for a Highly Nonlinear Two-wheeled Balancing Robot	Mohd Riduwan Ghazali, Universiti Malaysia Pahang; Mohd Zaidi Mohd Tumari, Universiti Malaysia Pahang; Ahmad Nor Kasruddin Nasir, Universiti Malaysia Pahang	
F2-42-3	86	Development of Straight Line Robot Movement Using Digital Compas Module	Mohd Riduwan Ghazali, Universiti Malaysia Pahang; Wan Ismail Ibrahim, Universiti Malaysia Pahang; Mohd Zaidi Mohd Tumari, Universiti Malaysia Pahang	
F2-42-4	497	Intelligent Autopilot for Remote Classroom: A cloud based solution	Isaac Schlittenhart, Eastern Washington University; Atsushi Inoue, Eastern Washington University	

YT-1 November 23 (Friday) 16:10-17:25

Room403

Swarm Optimization

Organizer: [Chair] Tomohiro Yoshikawa (Nagoya University)

F2-43-1	129	DOSI: Training Artificial Neural Networks using Overlapping Swarm Intelligence with Local Credit Assignment	Nathan Fortier, Montana State University; Karthik Ganesan Pillai, Montana State University; John Sheppard, Montana State University	(Teleconference)
F2-43-2	146	Parameter Tuning by PSO for Fuzzy Inference-Based Coronary Plaque Extraction in IVUS Image	Syaiful Anam, Yamaguchi University; Hideaki Misawa, Yamaguchi University; Eiji Uchino, Yamaguchi University; Noriaki Suetake, Yamaguchi University	
F2-43-3	302	Evaluation for Acquiring Method for Agents' Actions in Multi-agent System using Pheromone Communication between Agents	Hisayuki Sasaoka, Asahikawa National College of Technology	

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Room403

Evolutionary Multiobjective Optimization and Multiple Criteria Decision Making I

Organizer: [Chair] Shinya Watanabe (Muroran Institute of Technology), Hiroyuki Sato (University of Electro-Communications)

F2-43-4	50	Dynamic Control of the Number of Crossed Genes in Evolutionary Many-Objective Optimization	Hiroyuki Sato, The University of Electro-Communications; Carlos Coello, CINVESTAV-IPN; Hernan Aguirre, Shinshu University; Kiyoshi Tanaka, Shinshu University	
F2-43-5	59	An Evolutionary Algorithm using Two-stage Non-dominated Sorting and Directed Mating for Constrained Multi-objective Optimization	Minami Miyakawa, The University of Electro-Communications; Hiroyuki Sato, The University of Electro-Communications	

SCIS inv November 23 (Friday) 16:10-16:35

Room404

SCIS Invited Talk: 'Future Information Network as Large-Scaled Complex Adaptive Systems' by Masayuki Murata (Osaka University, Japan)

https://docs.google.com/document/d/1hs_Ylvcn2fP2RbV1f14_5VgCcNMIXIIF8WGnoMGIs1k/edit

Chair: the same as the host session (JS-3)

JS-3 November 23 (Friday) 16:35-17:50

Room404

Brain Inspired Networking

Organizer: Naoki Wakamiya (Osaka University), [Chair] Kenji Leibnitz (NICT)

F2-44-1	148	A calcium-based simplified model for a large diversity of spike-timing dependent plasticity	Takumi Uramoto, Osaka University; Hiroyuki Torikai, Osaka University	
F2-44-2	155	Hierarchical Bayesian Model for Diffuse Optical Tomography of Human Brains	Okito Yamashita, ATR; Takeaki Shimokawa, ATR; Takashi Kosaka, ATR; Takashi Amita, Shimadzu Corporation; Yoshihiro Inoue, Shimadzu Corporation; Masa-aki Sato, ATR	
F2-44-3	469	On the Gradient Formation Incorporating Node Movement for Gradient-based Routing in Delay Tolerant Mobile Sensor Networks	Yuki Koizumi, Osaka University; Hideyuki Kanai, Osaka University; Hiroyuki Ohsaki, Osaka University; Makoto Imase, Osaka University	

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Room405

Soft Information Processing and Living Organisms

Organizer: [Chair] Suguru N. Kudoh (Kwansei Gakuin University)

F2-45-1	141	Acquisition of a Peristaltic Crawling Robot's Motion Pattern Using Reinforcement Learning	Satoshi Tesen, Kwansei Gakuin University; Hiroki Dobashi, Kwansei Gakuin University; Norihiko Saga, Kwansei Gakuin University; Jun-ya Nagase, Ryukoku University	
F2-45-2	514	Development of An Adaptive Cognitive Training Method Using Near-Infrared Spectroscopy	Yuki Murase, Kobe University; Shinichi Nagai, Kobe University; Akinori Nagano, Kobe University; Zhi-Wei Luo, Kobe University	
F2-45-3	525	Neurorobot Vitroid - a living test model for embodiment brain research	Suguru Kudoh, Kwansei Gakuin University; Hidekatsu Ito, Kwansei Gakuin University; Isao Hayashi, Kansai University	
F2-45-4	526	Functional Connections between Avian and Mammalian neurons	Alice Shuta, Kwansei Gakuin University; Suguru Kudoh, Kwansei Gakuin University	

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Room406

Innovative Computing and Artificial Intelligence in Smart Power and Energy Systems

Organizer: [Chair] Athapol Ngaopitakkul (King Mongkut's Institute of Technology Laddrabang), Sulee Bunjongjit (King Mongkut's Institute of Technology Laddrabang)

F2-46-1	53	Simulating Cost-Based Bidding Models in Genersys	Ly-Fie Sugianto, Monash University; George Grozev, CSIRO; Zhigang Liao, Monash University; Melissa James, CSIRO; John Page, CSIRO	
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F2-46-2	183	Selection of Proper Activation Functions in Back-propagation neural networks algorithm for Transformer Internal Fault Locations	ATTHAPOL NGAOPITAKKUL, King Mongkut's Institute of Technology Ladkrabang; Sulee Bunjongjit, King Mongkut's Institute of Technology Ladkrabang; Chaichan Pothisarn, King Mongkut's Institute of Technology Ladkrabang; Boonlert Suechoey, South-East Asia University; Chaiyan Jettanasen, King Mongkut's Institute of Technology Ladkrabang	
F2-46-3	238	Application of Back-Propagation Neural Network for Transformer Differential Protection Schemes Part 1 Discrimination between External Short Circuit and Internal Winding fault	ATTHAPOL NGAOPITAKKUL, King Mongkut's Institute of Technology Ladkrabang; Chaichan Pothisarn, King Mongkut's Institute of Technology Ladkrabang; Nuchitita Suttisinthong, Thonburi University; Chaiyan Jettanasen, King Mongkut's Institute of Technology Ladkrabang	
F2-46-4	325	Application of Back-propagation Neural Network for Transformer Differential Protection Schemes Part 2 Identification the phase with fault appearance in power transformer	ATTHAPOL NGAOPITAKKUL, King Mongkut's Institute of Technology Ladkrabang; Chaichan Pothisarn, King Mongkut's Institute of Technology Ladkrabang; Sulee Bunjongjit, King Mongkut's Institute of Technology Ladkrabang; Boonlert Suechoey, South-East Asia University; Jittiphong Klomjit, King Mongkut's Institute of Technology Ladkrabang	
F2-46-5	407	Maximum Power Point Tracking Using Neural Network in Flyback MPPT inverter for PV systems	POOM KONGHUAYROB, King Mongkut's Institute of Technology Ladkrabang; Somyot Kaitwanidvilai, King Mongkut's Institute of Technology Ladkrabang	

A-4-1 November 23 (Friday) 16:10-18:15

Room504

Machine Learning and Data Mining I

Session Chair: Yukio Horiguchi (Kyoto University)

F2-54-1	28	MCMC Sampling on Latent-Variable Space of Mixture of Probabilistic PCA	Keisuke Yamazaki, Tokyo Institute of Technology	
F2-54-2	448	Analysis of Menu Selection Behavior Using Information Scent Model	Yukio Horiguchi, Kyoto University; Shinsu Ann, Kyoto University; Tetsuo Sawaragi, Kyoto University; Hiroaki Nakanishi, Kyoto University	
F2-54-3	89	Proposal of an Active Course Classification Support System with Exploitation-oriented Learning Extended by Positive and Negative Examples	Kazuteru Miyazaki, NIAD-UE; Masaaki Ida, NIAD-UE	
F2-54-4	154	Reinforcement Learning with Particles for Instant Optimality	Tsuyoshi Beppu, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University; Katsuhiko Honda, Osaka Prefecture University; Ichihashi hidetomo, Osaka Prefecture University	
F2-54-5	180	Tsallis Entropy Based Fuzzy C-means Clustering with Parameter Adjustment	Makoto Yasuda, Gifu National College of Technology	

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Room505

Pattern Classification and Clustering I

Organizer: Yuchi Kanzawa (Shibaura Institute of Technology)

Session Chair: Ichihashi Hidetomo (Osaka Prefecture University)

F2-55-1	52	A Method of Two-Stage Clustering with Constraints Using Agglomerative Hierarchical Algorithm and One-Pass K -Means	Nobuhiro Obara, University of Tsukuba; Sadaaki Miyamoto, University of Tsukuba	
F2-55-2	55	Comparing Different Methods of Agglomerative Hierarchical Clustering with Pairwise Constraints	Satoshi Takumi, University of Tsukuba; Sadaaki Miyamoto, University of Tsukuba	
F2-55-3	62	Information Criterion for Variational Bayes Learning in Regular and Singular Cases	Koshi Yamada, Tokyo Institute of Technology; Sumio Watanabe, Tokyo Institute of Technology	
F2-55-4	137	An Efficient Extraction-based Bagging Ensemble for High-dimensional data classification	Hsiao-Yun Huang, Fu-Jen Catholic University; Yen-Chieh Li, Fu-Jen Catholic University	
F2-55-5	97	Relational Fuzzy c-Lines Derived from Kernel Fuzzy c-Lines	Yuchi Kanzawa, Shibaura Institute of Technology	