

Code	ID	Paper Title	Author Names	Remarks
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LA-4 November 21 (Wednesday) 14:50-16:55

Room301

Intelligent System Development

Organizer: [Chair] Assel Akzhalova (Kazakh-British Technical University), Bolatzhan Kumalakov (al-Farabi Kazakh National University)

W2-31-1	210	Application of interval analysis in the research of organizational control systems	Jomartova Sholpan, Al-Farabi Kazakh National University; Mazakov Talgat, Al-Farabi Kazakh National University	(Teleconference)
W2-31-2	434	KOSERUBE: An Application System with a Propp-based Story Grammar and Other Narrative Generation Techniques	Shohei Imabuchi, Iwate Prefectural University; Taisuke Akimoto, Iwate Prefectural University; Junpei Ono, Iwate Prefectural University; Takashi Ogata, Iwate Prefectural University	
W2-31-3	93	Anisotropic Dynamic-Morphological-Diffusion for Color Image Segmentation	Junji Maeda, Muroran Institute of Technology; Takehiro Harada, Muroran Institute of Technology; Sato Saga, Muroran Institute of Technology; Yukinori Suzuki, Muroran Institute of Technology	
W2-31-4	185	Clothing image retrieval based on a similarity evaluation method for Kansei retrieval system	TAKAKI URAI, KANSAI UNIVERSITY; Masataka Tokumaru, Kansai University; DAITI OKUNAKA, KANSAI UNIVERSITY	
W2-31-5	216	Mean Shift-based SIFT Keypoint Filtering for Region-of-Interest Determination	Ji-Soo Keum, Kyung Hee University; Hyon-Soo Lee, Kyung Hee University; Masafumi Hagiwara, Keio University	

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Room301

Decision Support

Organizer: [Chair] Lyazzat Atymtayeva (Kazakh-British Technical University), Sholpan Mirseidova (Kazakh-British Technical University)

W2-31-6	451	Definition of Software Metrics for Software Project Development by Using Fuzzy Sets and Logic	Sholpan Mirseidova, Kazakh-British Technical University; Lyazzat Atymtayeva, Kazakh-British Technical University	
W2-31-7	258	Fuzzy-valued Evolution Strategy for Evolving Neural Networks with Fuzzy Weights and Biases	Hidehiko Okada, Kyoto Sangyo University; Akira Yamashita, Kyoto Sangyo University; Takashi Matsuse, Kyoto Sangyo University; Tetsuya Wada, Kyoto Sangyo University	

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Room401

Biologically-inspired Information and Communication Technology II

Organizer: [Chair] Tomohiro Shirakawa (National Defense Academy, Japan), Tadashi Nakano (Osaka University), Junichi Suzuki (University of Massachusetts), Hiroshi Sato (National Defense Academy, Japan), Phan Cong Vinh (NTT University, Vietnam)

W2-41-1	289	Properties of Language Networks in Wikipedia	Hiroshi Sato, National Defense Academy; Masao Kubo, National Defense Academy; Akira Namatame, National Defense Academy	
W2-41-2	298	Effectiveness of Scale-Free Properties in Genetic Programming	Hitoshi Araseki, Nihon University	
W2-41-3	388	Application of Manifold Learning Methods to Scene Information in Video Games	Hisashi Handa, Kindai University	
W2-41-4	431	Novel Taxis of the Physarum Plasmodium and a Taxis-Based Simulation of Physarum Swarm	Tomohiro Shirakawa, National Defense Academy; Ryusuke Konagano, National Defense Academy of Japan; Keita Inoue, National Defense Academy of Japan	

W2-41-5	460	Model-Driven Integration for a Service Placement Optimizer in a Sustainable Cloud of Clouds	Junichi Suzuki, University of Massachusetts; Dung Phan, University of Massachusetts; Masatoshi Higuchi, OGIS International, Inc.; Yuji Yamano, OGIS International, Inc.; Katsuya Oba, OGIS International, Inc.	
W2-41-6	501	Pilot Navigation Model for Foraging Ants	Yukio Gunji, Kobe University; Tomoko Sakiyama, Kobe University	

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Room402

Brain Inspired Systems

Organizer: [Chair] Tetsuo Furukawa (Kyushu Institute of Technology), Hiroaki Wagatsuma (Kyushu Institute of Technology)

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W2-42-2	208	Frequency-Input-Timescale Relations in Two-dimensional Hindmarsh-Rose Model	Yasuomi Sato, Kyushu Institute of Technology	
W2-42-3	323	Diverse background activities hidden in power-law spontaneous activity of hippocampal CA3 slice culture	Toshikazu Samura, Tamagawa University; Yasuomi Sato, Kyushu Institute of Technology; Yuji Ikegaya, The University of Tokyo; Hatsuo Hayashi, Kyushu Institute of Technology; Takeshi Aihara, Tamagawa University	
W2-42-4	359	Collaborative software platform for Computational brain research based on OpenRTM	Shunji Satoh, University of Electro-Communications; Taihei Kitagawa, University of Electro-Communications; Kazuki Urabe, University of Electro-Communications	
W2-42-5	382	A Kinetic Model of Failure Occurrences in a Chain Reaction and Analysis by Using Bernstein Polynomials and the Brownian Motion with Some Relativity	Hiroaki Wagatsuma, Kyushu Institute of Technology	
W2-42-6	399	Multi-scale Perception Model for Visual Illusion on Hybrid Image.	Takeshi Fukutomi, Kyushu Institute of Technology; Yasuomi Sato, Kyushu Institute of Technology; Hiroyuki Miyamoto, Kyushu Institute of Technology	
W2-42-7	92	Internal Representation of Sensory Information for Training Autonomous Robot	Pitoyo Hartono, Chukyo University; Thomas Trappenberg, Dalhousie University	

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Room403

Data Analysis and Decision Making with Stochastic and Soft Computing Techniques I

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

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W2-43-2	41	Improvement for Action Strategy Learning in Classification Task using Classification Probabilities	Chyon Hae Kim, Honda Research Institute Japan; Shota Yamazaki, Waseda University; Hiroshi Tsujino, Honda Research Institute; Shigeki Sugano, Waseda University	
W2-43-3	69	Descriptive Decision-making of Lung Cancer Treatment Using a DM Model with Dempster-Shafer Theory and Prospect Theory	Elhum Nusrat, Nagaoka University of Technology; Koichi Yamada, Nagaoka University of Technology	

W2-43-4	74	Neuro-Fuzzy Based Multi-Step-Ahead Prediction	Chih-Feng Liu, National Sun Yat-Sen University; Chia Ching Wei, National Sun Yat-Sen University; Lee Shie-Jue, National Sun Yat-Sen University	
W2-43-5	75	A Stackelberg Location on a Network with Fuzzy Random Demand Quantities using Necessity Measure	Takeshi Uno, The University of Tokushima; Hideki Katagiri, Hiroshima University; Kosuke Kato, Hiroshima Institute of Technology	
W2-43-6	125	Abductive Inference in Bayesian Belief Networks Using Swarm Intelligence	Karthik Ganesan Pillai, Montana State University; John Sheppard, Montana State University	(Teleconference)
W2-43-7	518	Richness Evaluation of Blogs on Its Topics Using a Generative Model and Probabilistic Analysis	Jinhee Park, Sungkyunkwan University; Jaedong LEE, Sungkyunkwan University; Hye-Wuk Jung, Sungkyunkwan University; Jee-Hyong Lee, Sungkyunkwan University	

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Room404

Intelligent Interaction and Visualization

Organizer: [Chair] Yasufumi Takama (Tokyo Metropolitan University), Takashi Onoda (Central Research Institute of Electric Power Industry), Seiji Yamada (National Institute of Informatics)

W2-44-1	236	Independence based Clustering	Takahiro Nishigaki, Tokyo institute of Technology; Takashi Onoda, Central Research Institute of Electric Power Industry	
W2-44-2	257	Analysis of Online Reviews for Evaluating Informative Reviews	Zhongjie Mao, Tokyo Metropolitan University; Shunichi Hattori, Tokyo Metropolitan University; Yasufumi Takama, Tokyo Metropolitan University	
W2-44-3	269	User State Identification through Desktop Interaction	Takahisa TANI, The Graduate University for Advanced Studies; Seiji YAMADA, National Institute of Informatics	
W2-44-4	284	Active Sampling for Constrained Clustering	Masayuki Okabe, Toyohashi University of Technology; Seiji YAMADA, National Institute of Informatics	
W2-44-5	397	Discussion of the crossover method of interactive Genetic Algorithm for extracting multiple peaks on Kansei landscape	Misato Tanaka, Doshisha University; Tomoyuki Hiroyasu, Doshisha University; Mitsunori Miki, Doshisha University; Masato Yoshimi, Doshisha University; Yasunari Sasaki, Doshisha University; Hisatake Yokouchi, Doshisha University	
W2-44-6	414	A elderly people assistant system applying user model with robots and Smartphone	YIHSIN HO, Tokyo Metropolitan University; Jiguo Zhen, Tokyo Metropolitan University; Eri Sato-Shimokawara, Tokyo Metropolitan University; Toru Yamaguchi, Tokyo Metropolitan University	
W2-44-7	496	Situation-Oriented Clustering of Sightseeing Spot Images Using Visual and Tag Information	Chia-Huang Chen, Tokyo Metropolitan University; Yasufumi Takama, Tokyo Metropolitan University	

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Room405

Computational Intelligence and Its Application to Image Processing

Organizer: [Chair] Yen-Wei Chen (Ritsumeikan University), Tomoko Tateyama (Ritsumeikan University)

W2-45-1	341	An Extraction Method of Solid Line Graph Elements in Mathematical Graphs for Automating Translation of Tactile Graphics	Jianjun Chen, Toyama Prefectural University; Noboru Takagi, Toyama Prefectural University; Ryoji Nagaya, Toyama Prefectural University	
W2-45-2	492	Efficient Shape Representation and Statistical Shape Modeling of the Liver Using Spherical Harmonic Functions (SPHARM)	Tomoko Tateyama, Ritsumeikan University; Megumi Okegawa, Ritsumeikan University; Mei Uetani, Ritsumeikan University; Hidetoshi Tanaka, Ritsumeikan University; Shinya Kohara, Ritsumeikan University; Shuzo Kanasaki, Takeda Hospital; Shigetaka Sato, Shiga University of Medical Science; Makoto Wakamiya, Shiga University of Medical Science; Akira Furukawa, Tokyo Metropolitan University; Xianhua Han, Ritsumeikan University; Yen-wei Chen, Ritsumeikan University	
W2-45-3	483	Classification and Numbering on Posterior Dental Radiography using Support Vector Machine with Mesiodistal Neck Detection	Agus Arifin, Institut Teknologi Sepuluh Nopember; Anny Yuniarti, Institut Teknologi Sepuluh Nopember; Wijayanti Khotimah, Institut Teknologi Sepuluh Nopember; Ahmad Hadi, Institut Teknologi Sepuluh Nopember; Arya Wijaya, Institut Teknologi Sepuluh Nopember; Eha Astuti, Airlangga University	
W2-45-4	489	An Artifact Reduction Method of the Penumbra Images by using Kernel Principal Component Analysis	Shinya Nozaki, University of the Ryukyus	

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Room405

Disaster Mitigation

Organizer: [Chair] Yoshio Nakatani (Ritsumeikan University)

W2-45-5	182	Evaluation of a Support System for Large Area Tourist Evacuation Guidance: Kyoto Simulation Results	Seiki Kinugasa, Ritsumeikan University; Tomoko Izumi, Ritsumeikan University; Yoshio Nakatani, Ritsumeikan University	
W2-45-6	316	A Study of Flexibility in Designing the Information Delivery System for Deaf People at a Larger Disaster	ATSUSHI ITO, KDDI R&D Laboratories; TAKAO YABE, Tokyo Metropolitan Hiroo Hospital; YU WATANABE, Utsunomiya University; MASAHIRO FUJII, Utsunomiya University; YOSHIKI KAKUDA, Hiroshima City University; YUKO HIRAMATSU, KDDI Evolva Inc.	
W2-45-7	356	Rumor detection on twitter	Tetsuro Takahashi, Fujitsu Laboratories LTD.; Nobuyuki Igata, Fujitsu Laboratories LTD.	

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Room406

Self-Organizing Maps

Organizer: [Chair] Hiroshi Wakuya (Saga University)

W2-46-1	23	The Classification of the Chain-Link and Other Data by Spherical SOM	Heizo Tokutaka, SOM Japan; Masaaki Ohkita, SOM Japan Inc.; Makoto Ohki, Tottori University; Matashige Oyabu, Kanazawa Institute of Technology; KIKUO FUJIMURA, TOTTORI UNIVERSITY	
W2-46-2	173	Determination of Parameters of Fuzzy Control System in Temperature Controller by using SOM and Effect on Disturbance	Nobuo Matsuda, Oshima National College of Maritime Technology; Heizo Tokutaka, SOM JAPAN Co.Ltd.; Fumiaki Tajima, Yokohama National University	
W2-46-3	187	Development of Sound Source Estimation Techniques using Binaural Sound - The concept of approaching vehicle detection system -	KIKUO FUJIMURA, TOTTORI UNIVERSITY; Ken Nishioka, Tottori University; Shigang Li, Tottori University; Isao Nakanishi, Tottori University; Kazuya Saitoh, Tottori University	
W2-46-4	349	Determination of the Appropriate Thresholds for Memory Retrieval of Reversi from SOM	Yuuki Kakizoe, Nishinippon Institute of Technology; Keiji Kamei, Nishinippon Institute of Technology	
W2-46-5	381	Fragmentization of Distance Measure for Pattern Generation by a Self-Organizing Map	Hiroshi Wakuya, Saga University; Eishi Takahama, Saga University; Hideaki Itoh, Saga University; Hisao Fukumoto, Saga University; Tatsuya Furukawa, Saga University	
W2-46-6	456	A Distance-Weighed Pearson Correlation Coefficient Based Self-Organizing Networks for Image Classification	Amr Al Khuffash, University of Manchester	
W2-46-7	490	Improvement of SOM visual stability by adjusting feature maps and sorting of learning data	Shinji Momoi, Ryukoku University; Tsutomu Miyoshi, Ryukoku University	

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Room504

Onomatopoeias and Sound Symbolism

Organizer: [Chair] Takanori Komatsu (Shinshu University), Satoshi Nakamura (Kyoto University)

W2-54-1	80	MOYA-MOYA Drawing: Proposing a drawing tool system which can utilize users' expressed onomatopoeias as an drawing effect	Takanori Komatsu, Shinshu University; Hiroki Terashima, Shinshu University	
W2-54-2	112	An Operation Plane Using a Neural Network for Intuitive Generation of Robot Motion	Junki Ito, Chukyo University; Masayoshi Kanoh, Chukyo University; Reona Arisawa, Chukyo University; Tsuyoshi Nakamura, Nagoya Institute of Technology; Takanori Komatsu, Shinshu University	
W2-54-3	311	Discovering Pattern of Onomatopoeia Used in Food Reviews	Ayumi Kato, The University of Tokyo; Yusuke Fukazawa, The University of Tokyo; Taketoshi Mori, The University of Tokyo	
W2-54-4	329	System Construction Supporting Communication with Foreign Doctors Using Onomatopoeia Expressing Pains	Yuya Ueda, The University of Electro-Communications; Yuichiro Shimizu, The University of Electro-Communications; Maki Sakamoto, The University of Electro-Communications	
W2-54-5	334	Image Evaluation System Based on The Sound Symbolism of Brand Names	Ryuichi Doizaki, The University of Electro-Communications; Yuichiro Shimizu, The University of Electro-Communications; Maki Sakamoto, The University of Electro-Communications	

W2-54-6	365	A Method to Propose Color Associated with Onomatopoeia based on Sound Symbolism	Saki Iiba, The University of Electro-Communications; Ayano Shiga, The University of Electro-Communications; Maki Sakamoto, The University of Electro-Communications	
W2-54-7	374	An E-Learning System for Japanese Onomatopoeic Expressions	Kiyota Hashimoto, Osaka Prefecture University; Kazuhiro Takeuchi, Osaka Electro-Communication University	

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Room505

Soft Computing in Urban and Transport Planning I

Organizer: [Chair] Takamasa Akiyama (Kansai University), Hiroaki Inokuchi (Kansai University)

W2-55-1	26	Research of Technology for Recognizing Photography Management Items from Image Data of Construction Fields	Etsuji Kitagawa, Hannan University; Shigenori Tanaka, Kansai University; Satoshi Abiko, Kansai University; Katsuma Wakabayashi, Kansai University; Wenyuan Jiang, Kansai University	
W2-55-2	138	Fuzzy Road Situation Model Optimization Routing (FRSMOR) in Vehicular Ad-hoc Network (VANET)	Chehung Lin, Tokyo Institute of Technology; Fangyan Dong, Tokyo Institute of Technology; Kaoru Hirota, Tokyo Institute of Technology	
W2-55-3	263	Measurement of People Using Range Image Sensor	Satoshi Abiko, Kansai University; Shigenori Tanaka, Kansai University; Shinichi Muramoto, Kansai University; Katsuma Wakabayashi, Kansai University; Kouhei Uetani, Kansai University	
W2-55-4	295	Multi-Agent Transport Simulation Model with Social Network in Small World	Masashi Okushima, The University of Tokushima; Takamasa Akiyama, Kansai University	

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Room505

Intelligent Systems in Medicine and Healthcare I

Organizer: Hiroharu Kawanaka (Mie University), [Chair] Miho Ohsaki (Doshisha University), Yutaka Hatakeyama (Kochi University)

W2-55-5	66	Computerized Classification Method for Histological Classifications of Masses using Objective Features Based on Clinicians' Subjective Impressions	Akiyoshi Hizukuri, Mie University; Ryohei Nakayama, Mie University; Yumi Kashikura, Mie University; Hiroharu Kawanaka, Mie University; Haruhiko Takase, Mie University; Tomoko Ogawa, Mie University; Shinji Tsuruoka, Mie University	
W2-55-6	109	Exploring effective indicator for early detection of IGT	Tomoaki Ishibashi, Kochi Medical School; Kazunori Otomo, Kochi Medical School; Hiromi Kataoka, Kochi Medical School; Yutaka Hatakeyama, Kochi Medical School; Yoshiyasu Okuhara, Kochi Medical School	
W2-55-7	110	Identifying diseases associated with a high risk for acute kidney injury using a Hospital Information System Database	Kazunori Otomo, Kochi Medical School; Tomoaki Ishibashi, Kochi Medical School; Hiromi Kataoka, Kochi Medical School; Yutaka Hatakeyama, Kochi Medical School; Yoshiyasu Okuhara, Kochi Medical School	