

Session No.

Presentation	Paper	Time	Title	Author (s)
--------------	-------	------	-------	------------

TP4-1-1 Application of Intelligent Systems
 Chair: Hwachang Song (Seoul Nat'l University of Science & Tech.)
 Room 1
 9:55-11:15, Dec. 4 (Thu.)

TP4-1-1-(1)	327	9:55	Long-term Cycle Control Strategies for SMP-based Shaving Using a Large-scale Battery Energy Storage System	Su Bin Son, Seoultech; Jung-Su KIM, SEOULTECH; Hwachang Song, Seoultech
TP4-1-1-(2)	334	10:15	Determining the Placement of BTB Converters for Fault Current Reduction in a Power System by Using a Hybrid GA-Tabu Search Method	Remund Labios, Seoultech; Hwachang Song, Seoultech
TP4-1-1-(3)	318	10:35	Competitive Self-Training Technique for Sentiment Analysis in Mass Social Media	Sola Hong, SKKU; Jaedong Lee; Jee-Hyong Lee
TP4-1-1-(4)	319	10:55	Automatic View Composition for Improving Co-training	HyeWoo Lee, Sungkyunkwan University; Kyoungmin Kim, Sungkyunkwan University; Jaedong Lee; Jee-Hyong Lee

TP4-1-2 Intelligent System
 Chair: Sang-Yong Rhee (Kyungnam University)
 Room 2
 9:55-11:15, Dec. 4 (Thu.)

TP4-1-2-(1)	362	9:55	A Feature Selection using Term Association Analysis for The Improvement of Document Classification in Text Mining	Sung-Sam Hong, Gachon University; Myung-Mook Han, Gachon University
TP4-1-2-(2)	324	10:15	A Multi-Agent Micro-Blog Behavior based User Preference Profile Construction	Qian Gao, School of Information, Qilu University of Technology; Young Im Cho, The University of Suwon; Jangyoung Kim, University of Suwon
TP4-1-2-(3)	382	10:35	Variable Message Frame Generator System	Jung-Sook Kim, Kimpo College
TP4-1-2-(4)	35	10:55	Implementation of a Personal Riding Robot with a Magnetic Compass Sensor Using a Smartphone Interface	YEONGYUN KIM, Kyungnam University; Seung Gook Hwang, Kyungnam University; Sang-Yong Rhee; DONG HUN KIM

TP4-1-3 Fuzzy Systems 1
 Chair: Hitoshi Yano (Nagoya City University)
 Room 3
 9:55-11:15, Dec. 4 (Thu.)

TP4-1-3-(1)	10	9:55	A linear programming based interactive method for multiobjective programming problems involving fuzzy coefficients and random variable coefficients	Hitoshi Yano, Nagoya City University
TP4-1-3-(2)	89	10:15	The World of Combinatorial Fuzzy Problems and the Efficiency of Fuzzy Approximation Algorithms	Tomoyuki Yamakami, University of Fukui
TP4-1-3-(3)	189	10:35	Optimal properties of a fuzzy least estimator based on new operations	Seunghoe Choi, Korea Aerospace University; Jin Hee Yoon, Sejong university; Hyeyoung Jung, Seoul national university; Woo-Joo Lee, Yonsei university
TP4-1-3-(4)	265	10:55	Algorithm to generate the Archimedean, finite, negative tomonoids	Milan Petřík, Czech Academy of Sciences; Thomas Vetterlein

TP4-1-4 Interactive Evolutionary Computation
 Chair: Makoto Fukumoto (Fukuoka Institute of Technology), Makoto Inoue (Akita National College of Technology)
 Room 4
 9:55-11:35, Dec. 4 (Thu.)

TP4-1-4-(3)	239	9:55	User's Operation on Solution Candidates in Interactive Tabu Search for Optimizing Fragrance Composition	Makoto FUKUMOTO, Fukuoka Inst. of Tech.; Shimpei KOGA, Fukuoka Inst. of Tech.
TP4-1-4-(2)	209	10:15	Evaluation of Hybrid Optimization with EMO and IEC for Architectural Floor Planning	Makoto Inoue, Akita National College of Technology; Megumu Hiramoto, Toyohashi University of Technology; Muneyuki Unehara, Nagaoka University of Technology; Koichi Yamada, Nagaoka University of Technology; Hideyuki Takagi, Kyushu University
TP4-1-4-(1)	64	10:35	Video Summarization Support by Interactive Evolutionary Computation	Hiroshi Nakamura, Kagoshima University; Satoshi Ono
TP4-1-4-(4)	195	10:55	Enhanced Interactive Differential Evolution using Evolutionary Level	Juni-ichi Kushida, Hiroshima City University; Akira Hara, Hiroshima City University; Tetsuyuki Takahama, Hiroshima City University

TP4-1-4-(5)	170	11:15	Subjective Evaluation of Music with Brain Wave Analysis for Interactive Music Composition by IEC	Muneyuki Unehara, Nagaoka University of Technology; Koichi Yamada, Nagaoka University of Technology; Takuma Shimada, Nagaoka University of Technology
-------------	-----	-------	--	---

(Presentation time of TP4-1-4-(1) and TP4-1-4-(3) was swapped.
Time on this program is the correct time.)

TP4-1-5 Optimization techniques for solving challenging problems 1
Chair: Noritaka Shigei (Kagoshima University)
Room 5
9:55-11:15, Dec. 4 (Thu.)

TP4-1-5-(1)	109	9:55	Show-through Cancellation in Scanned Documents Using Two-layer Bidirectional Neural Networks	Mikio Oda, Kurume Nat'l College of Tech.; Hiromi Miyajima, Kagoshima University
TP4-1-5-(2)	138	10:15	An Approach to Search the Solution of a Puzzle Game by Particle Swarm Optimization	Keiji Kamei, Nishinippon Institute of Tech.; Masashi Nakano
TP4-1-5-(3)	126	10:35	An Algorithm of Set-Based Differential Evolution for Traveling Salesman Problem	Tao Liu, Fukuoka Institute of Technology; Michiharu Maeda, Fukuoka Institute of Technology
TP4-1-5-(4)	72	10:55	Optimization of Flexible Job-shop Scheduling with Weighted Tardiness and Setup Worker-Load Balance in Make-to-order Manufacturing	Yasuhiko Morinaga, Nagoya University; Masahiro Nagao, Nagoya University; Mitsuru Sano, Graduate School of Environment Studies Nagoya University

TP4-1-6 Human Symbiotic Systems 1
Chair: Yoichiro Maeda (Osaka Institute of Technology), Tomohiro Yoshikawa (Nagoya University), Tsuyoshi Nakamura (Nagoya Institute of Technology)
Room 6
9:55-11:35, Dec. 4 (Thu.)

TP4-1-6-(1)	114	9:55	Psychological Effects of Educational-Support Robots using an Emotional Expression Model	Felix Jimenez, Nagoya university; Tomohiro Yoshikawa; Takeshi Furuhashi; Masayoshi Kanoh, Chukyo University
-------------	-----	------	---	---

TP4-1-6-(2)	116	10:15	A Study on Correspondence between Writing Features and Embodied Expertise Onomatopoeias	Hiroki Hojo, Nagoya Institute of Technology; Nozomi Nomachi, Nagoya Institute of Technology; Kenichi Murata, Nagoya Institute of Technology; Tsuyoshi Nakamura, Nagoya Institute of Technology; Masayoshi Kanoh, Chukyo University; Koji Yamada, Institute of Advanced Media Arts and Sciences
TP4-1-6-(3)	132	10:35	Applying the Concept of ``Moe'' to Designing Robot's Appearances	Kenta Kato, Nagoya Institute of Technology; Masayoshi Kanoh, Chukyo University; Koji Yamada, Institute of Advanced Media Arts and Sciences; Tsuyoshi Nakamura, Nagoya Institute of Technology
TP4-1-6-(4)	142	10:55	Learning Fuzzy Control Parameters for Kite-based Tethered Flying Robot using Human Operation Data	Chiaki Todoroki, University of Fukui; Yasutake Takahashi, University of Fukui; Takayuki Nakamura, University of Fukui
TP4-1-6-(5)	143	11:15	Learning Control based on Intention Recognition by Inverted Two-Wheeled Mobile Robot through Interactive Operation	Shinnosuke Nomura, University of Fukui; Takuya Inoue, University of Fukui; Yasutake Takahashi, University of Fukui; Takayuki Nakamura, University of Fukui

TP4-1-7

Biomimetic Approach in Robotics and Mechatronics

Chair: Keigo Watanabe (Okayama University), Fusaomi Nagata (Tokyo University of Science, Yamaguchi)

Room 7

9:55-11:35, Dec. 4 (Thu.)

TP4-1-7-(1)	27	9:55	Basic Design of Graphical User Interface for a Desktop NC Machine Tool Controller with a Vision Component	Mamadou Ngom, Tokyo University of Science, Yamaguchi; Fusaomi Nagata, Tokyo University of Science
TP4-1-7-(2)	43	10:15	Auto Gain-Tuning for Trajectory Following Control based on Neural Network	Akimasa Otsuka, Tokyo university of science; Fusaomi Nagata, Tokyo University of Science
TP4-1-7-(3)	173	10:35	Controllers Based on an Invariant Manifold Approach for Stabilizing a Nonholonomic Mobile Robot	Yin Yin Aye, Okayama University; Keigo Watanabe; Shoichi Maeyama; Isaku Nagai, Okayama University
TP4-1-7-(4)	315	10:55	Human Action Recognition Based on the Angle Data of Limbs	MAIERDAN MAIMAITIMIN, Okayama University; Keigo Watanabe; Shoichi Maeyama
TP4-1-7-(5)	300	11:15	An Error Model of Chained Form with Two Inputs for a Generalized Stabilization Problem	Keigo Watanabe; Tsuyoshi Goto, Okayama University; Kimiko Motonaka, Okayama University; Shoichi Maeyama; Isaku Nagai, Okayama University

TP4-1-8 Soft Computing and Its Applications 1
 Chair: Yan Shi (Tokai University), Takashi Samatsu (Tokai University)
 Room 8
 9:55-11:35, Dec. 4 (Thu.)

TP4-1-8-(1)	62	9:55	Watermark Design of Two-Dimensional Barcodes on Mobile Phone Display by Evolutionary Multi-objective Optimization	Takeru Maehara, Kagoshima University; Kentaro Nakai; Ryo Ikeda; Koutaro Taniguchi, Kagoshima University; Satoshi Ono
TP4-1-8-(2)	57	10:15	Model Advertising Slogan Selection System Using Collective Wisdom on the Web	Hiroaki Yamane, Keio University; Masafumi Hagiwara
TP4-2-8-(2)	198	10:35	A New Approach to Path-finding by Possibilities Search	Benoit Vallade, Osaka Prefecture University; Tomoharu Nakashima, Osaka Prefecture University
TP4-1-8-(4)	301	10:55	Implementation of The Chess Game Artificial Intelligent Using Mobile Robots	Kuo-Lan Su, National Yunlin University of Science & Technology; Li Bo-Yi; Guo Jr-Hung; Kuo-Hsien Hsia, FAR EAST UNIVERSITY
TP4-1-8-(5)	295	11:15	A Fuzzy Olfactory Detection System Design	Jr. Hung Guo, National Yunlin University of Science & Technology; Kuo-Hsien Hsia, FAR EAST UNIVERSITY; Kuo-Lan Su, National Yunlin University of Science & Technology

TP4-1-8-(3) is moved to the NEXT time slot TP-4-2-8, and TP4-2-8-(2) is moved to here from TP4-2-8.

TP4-1-9 Soft Computing in Urban and Transport Planning
 Chair: Takamasa Akiyama (Kansai University)
 Room 9
 9:55-11:35, Dec. 4 (Thu.)

TP4-1-9-(1)	384	9:55	Development of Multi-Agent Simulator for the District-based Smart City	Hiroaki Inokuchi, Kansai University; Takamasa Akiyama, Kansai University
TP4-1-9-(2)	385	10:15	Long Term Estimation of Traffic Demand on Urban Expressway by Neural Networks	Takamasa Akiyama, Kansai University; Hiroaki Inokuchi, Kansai University
TP4-1-9-(3)	201	10:35	A Crowd Simulation for the Flow of Students in School Building of Kansai University	Raito Matsuzaki, Kansai University; Yoshiko Hanada, Kansai University; Noriaki Muranaka, Kansai University
TP4-1-9-(4)	292	10:55	Campus Parking Space Allocation Distribution Using Pattern Search and Particle Swarm Pattern Search Algorithms	Aderemi Adewumi, University of KwaZulu-Natal; Luke Joel, University of KwaZulu-Natal; Babatunde Sawyerr, University of KwaZulu-Natal
TP4-1-9-(5)	129	11:15	Multi-Agent Simulation for Promoting Clean Energy Vehicle Considering with Local Interaction	Masashi Okushima, The University of Tokushima; Takamasa Akiyama, Kansai University

TP4-2-1 Maritime Safety System to Support e-Navigation
 Chair: Jung Sik Jeong (Mokpo Maritime National University)
 Room 1
 12:50-14:50, Dec. 4 (Thu.)

TP4-2-1-(1)	17	12:50	[Invited Talk] On Intelligent Maritime Navigation System toward e-Navigation	Dr. Ki-Yeol Seo, Korea Research Institute of Ships & Ocean Engineering
TP4-2-1-(2)	346	13:10	Development of Grid Projection Algorithm of Vessel Trajectories for e-Navigation	Kim Kwangil, Mokpo National Maritime Univ.; Jung-Sik Jeong, Mokpo Nat'l Maritime Univ.; Gyei-kark Park, Mokpo Nat'l Maritime Univ.
TP4-2-1-(3)	325	13:30	3D FastSLAM Algorithm with Kinect Sensor	HyungGi Jo, Yonsei University; Sungjin Jo; Sewoong Jun; Changyong Yoon; Euntai Kim
TP4-2-1-(4)	326	13:50	Rear-end Collision Warning System Using Linear Discriminant Analysis	Jhonghyun An, Yonsei univ; Baehoon Choi, yonsei univ; Beomseong Kim, yonsei univ; Jaeho Hwang, Hyundai Mobis Co., Ltd; Euntai Kim
TP4-2-1-(5)	345	14:10	A Feasibility Study of PNT Integrity Provision for Maritime Applications	Ki-Yeol SEO, KRISO
TP4-2-1-(6)	344	14:30	Assessment of ENC Sounding by Delaunay Triangulation method in aspect of fine compilation for safe navigation	Dongwoo Kang, KRISO; Sewoong Oh, KRISO; Wooseong Shim, KRISO; Sunyoung Kim, KRISO

TP4-2-2 Intelligent Robotics
 Chair: Yasunori Takemura (Nippon Bunri University), Kazuo Ishii (Kyushu Institute of Technology)
 Room 2
 12:50-14:50, Dec. 4 (Thu.)

TP4-2-2-(1)	102	12:50	Development of Universal Robot Gripper Using MR α Fluid	Yuki Okatnai, Kyushu Insitute of Technology; Takeshi Nishida, Kyushu Institute of Technology
TP4-2-2-(2)	99	13:10	Development of Autonomous Underwater Vehicle "OCTA" for coastal survey	Tomoaki Himeno, Nippon Bunri University; Yasunori Takemura, Nippon Bunri University; Daichi Ando, Nippon Bunri University; Hiroaki Haraguchi, Nippon Bunri University; Yu Adachi, Nippon Bunri University; Cheyoung Park, Nippon Bunri University; Ken Matsuoka, Nippon Bunri University; Yuki Soejima, Nippon Bunri University

TP4-2-2-(3)	87	13:30	Development of Universal Jamming Gripper with a Force Feedback Mechanism	Takeshi Nishida, Kyushu Institute of Technology
TP4-2-2-(4)	199	13:50	Proposition of a Three Layers Architecture for Adaptable Artificial Intelligence	Benoit Vallade, Osaka Prefecture University; Alexandre David, Osaka Prefecture University; Tomoharu Nakashima, Osaka Prefecture University
TP4-2-2-(5)	207	14:10	Adaptative Motion Control System of a Snake-like Robot Using a Neural Oscillator Network	Takayuki Matsuo, KCT; Kazuo Ishii
TP4-2-2-(6)	251	14:30	Dead-lock Free Mobile Robot Navigation Using Modified Artificial Potential Field	Tharindu Weerakoon, Kyushu Institute of Technology; Kazuo Ishii; Amir Ali Nassiraei, Kyushu Institute of Technology

TP4-2-3 Soft Computing 1
Chair: Yutaka Hatakeyama (Kochi University)
Room 3
12:50-14:30, Dec. 4 (Thu.)

TP4-2-3-(1)	80	12:50	Level evaluation system for Cardiotocography	Yutaka Hatakeyama, Kochi university; Hiromi Kataoka; Noriaki Nakajima; Teruaki Watabe; Yoshiyasu Okuhara
TP4-2-3-(2)	226	13:10	The saccadic EEG analysis in slow cortical potential before the eye movement	Motoki Hayakawa, Chubu University; Shoya Ueda, Chubu University; Arai Funase, Nagoya Institute of Technology; Akitoshi Itai, College of Engineering, Chubu University
TP4-2-3-(3)	21	13:30	A Cooperative Driving Control Protocol for Cooperation Intelligent Autonomous Vehicle using VANET Technology	Chehung Lin, Tokyo Institute of Technology; Fangyan Dong, Tokyo Institute of Technology; Kaoru Hirota, Tokyo Institute of Technology
TP4-2-3-(4)	176	13:50	A Rule-based Approach for Improving Kinect Skeletal Tracking System with an Application on Standard Muay Thai Maneuvers	Ketchart Kaewplee, Pae; Nirattaya Khamsemanan; Cholwich Nattee
TP4-2-3-(5)	60	14:10	Tractable Infinite Order Markov Analysis for Iterated Games with Learners	Shohei Hidaka, JAIST; Takuma Torii, JAIST; Akira Masumi, JAIST

TP4-2-4 Signal Processing and Machine Learning for Neurotechnology 1
Chair: Tomasz M. Rutkowski (University of Tsukuba)
Room 4
12:50-14:10, Dec. 4 (Thu.)

TP4-2-4-(1)	241	12:50	Bayesian Delay Time Estimation of Brainwaves Using N100 Response in Tactile-force Brain-computer Interface	Reo Togashi, The University of Electro-Comm; Yoshikazu Washizawa, The University of Electro-Communications; Shota Kono, University of Tsukuba; Tomasz Rutkowski, University of Tsukuba
TP4-2-4-(2)	185	13:10	Hybrid-BCI: Classification of Auditory and Visual Related Potentials	Gaochao Cui, Saitama Institute of Technolog; Qibin Zhao; Jianting Cao; Andrzej Cichocki
TP4-2-4-(3)	266	13:30	Brain-computer Interface Using Ambisonics-reproduced Dynamic Sound Image Effects	Bertrand Hieronymus, University of Tsukuba; Hiromu Mori, University of Tsukuba; Tomasz Rutkowski, University of Tsukuba
TP4-2-4-(4)	308	13:50	ANN-Based Nerve Damage Preservation System for Neurosurgical Operation	Dilok Puanhvan, Mahidol University; Sarawin Khemmachotikun, Mahidol University; Sorayouth Chumnanvej, Mahidol University; Yodchanan Wongsawat, Mahidol University

TP4-2-5 Optimization techniques for solving challenging problems 2
Chair: Mikio Oda (Kurume National College of Technology)
Room 5
12:50-14:10, Dec. 4 (Thu.)

TP4-2-5-(1)	110	12:50	A proposal of SIRMs model with linear transformation of input variables	Hirofumi Miyajima, Kagoshima University; Noritaka Shigei, Kagoshima University; Hiromi Miyajima, Kagoshima University
TP4-2-5-(2)	145	13:10	Parallel Stochastic Search for PAPR Reduction of OFDM Signal	Noritaka Shigei, Kagoshima University; Hideaki Kumashiro, Kagoshima University; Hiromi Miyajima, Kagoshima University
TP4-2-5-(3)	228	13:30	A* Algorithm-Based Initial Route Construction for Mobile Relay on WSN	Yogi Anggun Saloko Yudo, Kagoshima University; Noritaka Shigei, Kagoshima University; Hiromi Miyajima, Kagoshima University
TP4-2-5-(4)	41	13:50	An Augmented Automatic Choosing Control of Formal Linearization Filter Type by ABC Algorithm and Its Application to Electric Power Systems	Tomohiro Hachino, Kagoshima University; Hitoshi Takata, Kagoshima University; Soichiro Osako, Kagoshima University; Hiromi Miyajima, Kagoshima University; Kazuo Komatsu, Kumamoto National College of Technology; Kimihisa Kawabata, Kyushu Sangyo University

TP4-2-6 Human Symbiotic Systems 2

Chair: Yoichiro Maeda (Osaka Institute of Technology), Tomohiro Yoshikawa (Nagoya University), Tsuyoshi Nakamura (Nagoya Institute of Technology)

Room 6

12:50–13:50, Dec. 4 (Thu.)

TP4-2-6-(1)	71	12:50	Effectiveness of Kansei model in Healthy Eating Habits Support System	Ryouta Oku, Kansai University; Hiroshi Takenouchi, Fukuoka Institute of Technology; Masataka Tokumaru, Kansai University
TP4-2-6-(2)	269	13:10	Attention Prediction System Based on Eye Tracking and Saliency Map by Fuzzy Neural Network	Mao Wang, University of Fukui; Yoichiro Maeda, Osaka Institute of Technology; Yasutake Takahashi, University of Fukui; Kazuki Naruki, Osaka Institute of Technology
TP4-2-6-(3)	206	13:30	Development of Human-Friendly Robot's Waist with Passive Collision Force Suppression Mechanism	Koki Matsumoto, Kanagawa University; Yoshiaki Ono, Kanagawa University; Hun-ok Lim, Kanagawa University

TP4-2-7

System analysis and optimization

Chair: Kazutoshi Sakakibara (Toyama Prefectural University)

Room 7

12:50–14:50, Dec. 4 (Thu.)

TP4-2-7-(1)	220	12:50	Multi-agent Simulation Model of Urban Traffic Behavior of Inhabitants Applying Optimization Techniques	Takuya Matsumoto, Kobe University; Kazutoshi Sakakibara, Toyama Prefectural University; Hisashi Tamaki, Kobe University
TP4-2-7-(2)	192	13:10	An Evolutionary Multi-criterion Optimization Approach Utilizing the Characteristics of Strength Distribution for Sparse CT Image Reconstruction	Kazuma Nagafune, College; Watanabe Shinya; Hiroyuki Shioya, Muroran Institute of Technology
TP4-2-7-(3)	203	13:30	Optimization of design of decentralized energy networks by mathematical programming techniques	Kazutoshi Sakakibara, Toyama Prefectural University; Takuya Matsumoto, Kobe University; Ittetsu Taniguchi, Ritsumeikan University; Hisashi Tamaki, Kobe University
TP4-2-7-(4)	197	13:50	A Call-based Integer Programming Model for Static Elevator Operation Problems	Tsutomu Inamoto, Ehime University; Yoshinobu Higami, Ehime University; Shin-ya Kobayashi, Ehime University
TP4-2-7-(5)	290	14:10	Evaluation of Hetero Sensitivity of Pheromone with Ant Colony Optimization	Hisayuki Sasaoka, Asahikawa National College of Technology

TP4-2-7-(6)	259	14:30	Integer Programming Approach Based on Pattern for a Class of Staff Scheduling Problems	Makoto Ohara, Kobe University; Hisashi Tamaki, Kobe University
-------------	-----	-------	--	--

TP4-2-8 Soft Computing and Its Applications 2
Chair: Yan Shi (Tokai University), Takashi Samatsu (Tokai University)
Room 8
12:50-14:10, Dec. 4 (Thu.)

TP4-2-8-(1)	291	12:50	New Adaptive Algorithm for Frequency Selective OFDM Channels	Lianming Sun, The University of Kitakyushu
TP4-1-8-(3)	136	13:10	Approximation-based adaptive tracking control of stochastic nonlinear systems with a general form	Huanqing Wang, Bohai University; Hongyan Yang; Yan SHI; Hamid Reza Karimi
TP4-2-8-(3)	224	13:30	Optimal Solution for Supplier Selection based on SMART Fuzzy Case Base Approach	Vivek Kumar, IISJ; S Srinivasan, PDM Engineering College Bhadurgarh HR India ; Subhra Das, Amity University Gurgaon, India
TP4-2-8-(4)	347	13:50	Motion Control of a Walking Support Robot Considering Pressure and Thrust from Users	Yina WANG, Kouchi university of technolog; Shuoyu WANG

TP4-2-8-(2) is moved to the PREVIOUS session TP4-1-8, and TP4-1-8-(3) is moved to here from TP4-1-8.

TP4-2-9 Machine Learning 2
Chair: Sachio Saiki (Kobe University)
Room 9
12:50-14:50, Dec. 4 (Thu.)

TP4-2-9-(1)	387	12:50	Consumer-Oriented ReceiptLog Service Platform for Effective Applications	Seiki Tokunaga; Akihiro Okushi; Sachio Saiki, Kobe University; Shinsuke Matsumoto; Masahide Nakamura
TP4-2-9-(2)	155	13:10	A Blind Source Extraction Algorithm with a Unimodular Constraint	Tsubasa INOUE, Nishinippon Institute of tech.; Takashi ITAHASHI, Showa University Karasuyama Hospital
TP4-2-9-(3)	256	13:30	Human Identification using Skeletal Gait and Silhouette data extracted by Microsoft Kinect	Nitchan Jianwattanapaisarn, SIIT, Thammasat University; Athiwat Cheewakidakarn, SIIT, Thammasat University; Nirattaya Khamsemanan; Cholwich Nattee
TP4-2-9-(4)	274	13:50	Acceleration of reinforcement learning via game-based renewal energy management system	Kenta Igushi, Chubu University; Takaya Ogiso, Chubu University; Koichiro Yamauchi, Chubu University

TP4-2-9-(5)	261	14:10	An Approach for Classifying Geometric Relationships in Handwritten Mathematical Expressions using Inductive Logic Programming	Chaninthorn Amornsawaddirak, SIIT; Cholwich Nattee; Nirattaya Khamsemanan
TP4-2-9-(6)	133	14:30	Interpretation system for geological research data based on machine learning algorithms	Ravil Muhamedyev, IITU; Yan Kuchin, IITU; Syrymbet Iskakov, IITU; Kirill Yakunin, IITU; Pavel Gricenko, IITU

TP4-3-1 Intelligent System for Robotics and Vehicles
Chair: Young-Jae Ryoo (Mokpo National University)
Room 1
15:05-17:05, Dec. 4 (Thu.)

TP4-3-1-(1)	I6	15:05	[Invited Talk] The Lightest Child-sized Humanoid Robot, CHARLES	Young-Jae Ryoo, Mokpo National University
TP4-3-1-(2)	245	15:45	Quasi-continuous Exponential Stabilizing Controller Using Single Input Absorption Control by Invariant Manifold	Shogo Nonaka, Saga University; Takeshi Tsujimura, Saga University; Kiyotaka Izumi, Saga University
TP4-3-1-(3)	358	16:05	ZMP Based Walking Pattern Generation of Child-sized Humanoid Robot : CHARLES(Cognitive Humanoid Autonomous Robot with Learning and Evolutionary System)	Young-Jae Ryoo, Mokpo National University; Kinam Lee, Mokpo National University
TP4-3-1-(4)	355	16:25	Socially Wise Mediated Reality for Hollistic Smart Environments	Youngho Lee, Mokpo National University; Jongmyung Choi, Mokpo National University; Young-Jae Ryoo
TP4-3-1-(5)	356	16:45	Electric Driven Three-Wheeled Robotic Vehicle (Robicle) for Personal Mobility System	Young-Jae Ryoo, Mokpo National University; Gyujin Jo, Mokpo National University

TP4-3-3 Machine Learning 1
Chair: Yutaka Hatakeyama (Kochi University)
Room 3
15:05-16:45, Dec. 4 (Thu.)

TP4-3-3-(1)	14	15:05	Twitter-TTM: An Efficient Online Topic Modeling for Twitter considering Dynamics of User Interests and Topic Trends	Kentaro Sasaki, Nagoya University; Tomohiro Yoshikawa; Takeshi Furuhashi
TP4-3-3-(2)	28	15:25	Discovery of Various Sequential Patterns within Top-k from Sequential Data	Shigeaki Sakurai, Toshiba corporation; Minoru Nishizawa, Toshiba Solutions Corporation

TP4-3-3-(3)	342	15:45	Using Cluster Ensemble to Improve Classification of Student Dropout in Thai University	Natthakan Iam-On, MFU; Tossapon Boongoen, RTAFA
TP4-3-3-(4)	267	16:05	Forecasting Students' Future Academic Records Using Bayesian Network	Hiroataka Itoh, Nagoya Institute of Technology; Yuma Itoh, Nagoya ; Kenji Funahashi, Nagoya Institute of Technology; Daisuke Yamamoto, Nagoya Institute of Technology; Shoici Saito, Nagoya Institute of Technology; Hiroshi Matsuo, Nagoya Institute of Technology; Ichi Takumi, Nagoya Institute of Technology
TP4-3-3-(5)	44	16:25	A Data Adjustment Method of Low-priced Data-glove Corresponding with each User Hand	Yutaro Mori, Nagoya Institute of Technology; Kenji Funahashi, Nagoya Institute of Technology

TP4-3-4 Signal Processing and Machine Learning for Neurotechnology 2
Chair: Tomasz M. Rutkowski (University of Tsukuba)
Room 4
15:05-16:05, Dec. 4 (Thu.)

TP4-3-4-(1)	298	15:05	Virtual Reality Feedback Environment for Brain Computer Interface Paradigm Using Tactile and Bone-conduction Auditory Modality Paradigms	Waldir Marin Neto; Kensuke Shimizu, University of Tsukuba; Hiromu Mori, University of Tsukuba; Tomasz Rutkowski, University of Tsukuba
TP4-3-4-(2)	163	15:25	Tactile Pressure Brain-computer Interface Using Point Matrix Pattern Paradigm	Kensuke Shimizu, University of Tsukuba; Hiromu Mori, University of Tsukuba; Shoji Makino, University of Tsukuba; Tomasz Rutkowski, University of Tsukuba
TP4-3-4-(3)	76	15:45	Multilinear Tensor Rank Estimation via Sparse Tucker Decomposition	Tatsuya Yokota, RIKEN; Andrzej Cichocki, RIKEN

TP4-3-5 Clustering -Fundamentals and Applications- 1
Chair: Yuchi Kanzawa (Shibaura Institute of Technology)
Room 5
15:05-16:25, Dec. 4 (Thu.)

TP4-3-5-(1)	25	15:05	Two-Stage Clustering Using One-Pass K-Medoids and Medoid-Based Agglomerative Hierarchical Algorithms	Sadaaki Miyamoto, University of Tsukuba; Yusuke Tamura, University of Tsukuba
TP4-3-5-(2)	81	15:25	On New Sequential Hard c-Medoids	YUKIHIRO HAMASUNA, Kinki University; Yasunori Endo, University of Tsukuba

TP4-3-5-(3)	69	15:45	On Even-sized Clustering Algorithm Based on Optimization	Tsubasa Hirano, University of Tsukuba; Yasunori Endo, University of Tsukuba; Naohiko Kinoshita, Graduate School of Sys. and Info. Eng., University of Tsukuba; YUKIHIRO HAMASUNA, Kinki University
TP4-3-5-(4)	83	16:05	Alternative Fuzzy c-Regression Models with Tolerance	Shunsuke Iwata, Osaka Prefecture University; Katsuhiro Honda, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University

TP4-3-6 Data Mining and Knowledge Discovery Based on Statistical Methods
Chair: Kuniyoshi Hayashi (Okayama University), Kyo Koki (Obihiro University of Agriculture and Veterinary Medicine)
Room 6
15:05-16:25, Dec. 4 (Thu.)

TP4-3-6-(1)	182	15:05	Automatic Annotation of Papers Metadata using LOD	Toshitaka Maki, Fukuoka Institute of Technology; Toshihiko Wakahara, Fukuoka Institute of Technology
TP4-3-6-(2)	184	15:25	Detecting a change point using statistical sensitivity analysis based on the influence function	Kuniyoshi Hayashi, Okayama University; Koji Kurihara, Okayama University
TP4-3-6-(3)	211	15:45	A robust stochastic magnetic field model for sensor network mapping	Edson Hiroshi Aoki, Teralytics Pte. Ltd.; Shaohui Foong, SUTD; Dushyanth Madhavan, ST Kinetics; Yew Long Lo, SGH
TP4-3-6-(4)	363	16:05	A New Approach to Data Envelopment Analysis and Its Application to Industries in Japanese Prefectures	Koki Kyo, Obihiro University of Agriculture and Veterinary Medicine; Hideo Noda, Tokyo University of Science

TP4-3-7 Self-Organizing Maps
Chair: Hiroshi Wakuya (Saga University), Kikuo Fujimura (Tottori University)
Room 7
17:20-19:00, Dec. 4 (Thu.) (This session is moved to the NEXT time slot. Time shown here is the correct time.)

TP4-3-7-(1)	22	17:20	Incremental Learning with Self-Organizing Neural Grove	Tomohiro Miyakoda, Kure National College of Tech.; Hirotaka Inoue, Kure National College of Tech.
-------------	----	-------	--	---

TP4-3-7-(2)	123	17:40	Development of Sound Source Estimation Techniques using Binaural Sound - Creation of Self-Organizing Maps by real-time data -	Kikuo Fujimura, Tottori University; Ken Nishioka, Tottori University; Isao Nakanishi, Tottori University; Shigang Li, Tottori University
TP4-3-7-(3)	317	18:00	Basic Research of Reinforcement Learning with Self Organizing Map	Hiroshi Dozono, Saga University; Ryou Egami, Saga University
TP4-3-7-(4)	248	18:20	Smoothed Data Density Histogram on Self-Organizing Map and Its Application to Cluster Analysis	Yuriko Tsunoda, Kyushu Institute of Technology; Hideaki Kawano, Kyushu Institute of Technology; Hiroshi Maeda, Kyushu Institute of Technology
TP4-3-7-(5)	236	18:40	A Consideration on Visualization of Temporal Signals by Feedback SOM	Hiroshi Wakuya, Saga University; Shohei Matsuoka, Saga University; Hideaki Itoh, Saga University; Sang-Hoon Oh, Mokwon University

TP4-3-8

Intelligent Control

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

Room 8

15:05-17:05, Dec. 4 (Thu.)

TP4-3-8-(1)	82	15:05	A Design of Polynomial Fuzzy Controller with Disturbance Observer	Hugang Han, Pref. Univ. of Hiroshima; Yuki Higaki, Pref. Univ. of Hiroshima
TP4-3-8-(2)	74	15:25	Development of a fast self-localization algorithm based on laser range finders	Tetsuo Kinoshita, Hosei University; Kazuyuki Kobayashi, Hosei University; Kajiro Watanabe, Hosei University
TP4-3-8-(3)	124	15:45	Development of prediction based emergency obstacle avoidance module by using LIDAR for mobile robot	Mikito Takahashi, Hosei University; Kazuyuki Kobayashi, Hosei University; Kajiro Watanabe, Hosei University; Tetsuo Kinoshita, Hosei University
TP4-3-8-(4)	127	16:05	Development of collision-free-area detection algorithm for mobile robot	Shinnosuke Tokuda, Hosei University; Kazuyuki Kobayashi, Hosei University; Kajiro Watanabe, Hosei University; Tetsuo Kinoshita, Hosei University
TP4-3-8-(5)	128	16:25	LIDAR based target object classification by using reflection intensity	Yoshitaka Fukuda, Hosei university; Kazuyuki Kobayashi, Hosei University; Kajiro Watanabe, Hosei University; Tetsuo Kinoshita, Hosei University
TP4-3-8-(6)	154	16:45	A Cooperative Parking System Based on Fuzzy Intention	Saki Matoba, Tsukuba University; Seiji YASUNOBU, University of Tsukuba

TP4-3-9

Cool Systems Engineering 1

Chair: Keitaro Naruse (University of Aizu), Masahito Yamamoto (Hokkaido University), Michiko Watanabe (Kitami Institute of Technology)

Room 9

15:05-16:25, Dec. 4 (Thu.)

TP4-3-9-(1)	148	15:05	Aggregation and Application of Community Tourism Information Contents by Using Linked Open Data	Taku Okuno, Future University Hakodate
TP4-3-9-(2)	289	15:25	Unsmooth Field Sweeping by Ballistic Random Walk of Multiple Robots in Unsmooth Terrain	Kazuya Tamura, University of Aizu; Keitaro Naruse, University of Aizu
TP4-3-9-(3)	258	15:45	"Name-color" synesthesia making consistency test	Sakurai Eiki, University of Aizu; Cai DongSheng; Ippeita Dan; Nobuyoshi Asai
TP4-3-9-(4)	260	16:05	Self-organized Flocking in Mobile Robots Based on Frontal Interaction and Leadership Rules	Toshiyuki Yasuda, Hiroshima University; Akitoshi Adachi, Hiroshima University; Kazuhiro Ohkura, Hiroshima University

TP4-4-1

Big Data Application

Chair: Keon Myung Lee (Chungbuk National University)

Room 1

17:20-19:00, Dec. 4(Thu.)

TP4-4-1-(1)	I1	17:20	[Invited Talk] A Transaction-Sequence Based Recommendation Approach by Splitting Content Consuming Logs	Jee-Hyong Lee, Sungkyunkwan University
TP4-4-1-(2)	335	17:40	Latent Keyphrase Generation by Combining Contextually Similar Primitive Words	Taemin Cho, Sungkyunkwan University; Hana Cho; Jaedong Lee; Jee-Hyong Lee
TP4-4-1-(3)	336	18:00	Automatic Generative Design to Meet Customer's Preferences	Solji Kang, Chungbuk National University; Gowoo Kim, Chungbuk National University; Keon Myung Lee, Chungbuk National University; Hyeon Gu Kim, Chungbuk National University
TP4-4-1-(4)	337	18:20	An Improvement of Weighted PageRank to Handle the Zero Link Similarity	Sang-yeon Lee; Young-gi Kim, Chungbuk National University; Seok-Jong Lee; Keon Myung Lee, Chungbuk National University
TP4-4-1-(5)	322	18:40	K-means Clustering based SVM Ensemble Methods for Imbalanced Data Problem	Jaedong Lee; Jee-Hyong Lee, Sungkyunkwan University

TP4-4-2

Evolutionary Computation

Chair: Shinichi Yoshida (Kochi University of Technology)
Room 2
17:20–19:00, Dec. 4 (Thu.)

TP4-4-2-(1)	93	17:20	An Adaptive Differential Evolution Considering Correlation of Two Algorithm Parameters	Tetsuyuki Takahama, Hiroshima City University; Setsuko Sakai, Hiroshima Shudo University
TP4-4-2-(2)	31	17:40	Ensemble Learning of Rule-based Evolutionary Algorithm Using Multi Layer Perceptron for Stock Trading Models	Shingo Mabu, Yamaguchi University; Masanao Obayashi; Takashi Kuremoto, Yamaguchi University
TP4-4-2-(3)	210	18:00	Leveraging Evolutionary Multiobjective Games for Configuring Cloud-integrated Body Sensor Networks	Yi Cheng-Ren, University of Massachusetts, Boston; Junichi Suzuki, University of Massachusetts, B; Dung Phan, University of Massachusetts, Boston; Shingo Omura, OGIS International, Inc.; Ryuichi Hosoya, University of Massachusetts, Boston
TP4-4-2-(4)	262	18:20	Preference-Based NSGA-II for Many-Objective Knapsack Problems	Yuki Tanigaki, Osaka Prefecture University; Kaname Narukawa, Honda Research Institute Europe GmbH; Yusuke Nojima, Osaka Prefecture University; Hisao Ishibuchi, Osaka Prefecture University
TP4-4-2-(5)	111	18:40	Myogenic potential pattern discernment method using genetic programming for hand gesture	Takahiro Hashimoto, Saga University; Takeshi Tujimura, Saga university; Kiyotaka Izumi, Saga university

TP4-4-3 Fuzzy Systems 2
Chair: Yusuke Nojima (Osaka Prefecture University)
Room 3
17:20–18:40, Dec. 4 (Thu.)

TP4-4-3-(1)	53	17:20	Stabilization Control of an Inverted Pendulum by Complex-valued Neuro-Fuzzy Learning Algorithm	Jin Arai, University of Fukui; Ryusuke Hata, University of Fukui; Kazuyuki Murase, University of Fukui
TP4-4-3-(2)	54	17:40	Quaternion Neuro-Fuzzy for real-valued classification problems	Ryusuke Hata, University of Fukui; Kazuyuki Murase, University of Fukui
TP4-4-3-(3)	175	18:00	Collaborative Maneuver Planning Using Fuzzy Integral In RTS game	Peter Ng, The Hong Kong Polytechnic University
TP4-4-3-(4)	302	18:20	Genetic Lateral Tuning of Membership Functions as Post-processing for Hybrid Fuzzy Genetics-based Machine Learning	Yusuke Nojima, Osaka Prefecture University; Yuji Takahashi, Osaka Prefecture University; Hisao Ishibuchi, Osaka Prefecture University

TP4-4-4 Soft Computing Methodologies for Computer-aided Diagnosis
 Chair: Syoji Kobashi (University of Hyogo), Hiroharu Kawanaka (Mie University), Miho Ohsaki (Doshisha University)
 Room 4
 17:20-18:40, Dec. 4(Thu.)

TP4-4-4-(1)	284	17:20	A Falling Detection System with Plural Thermal Array Sensors	YUSUKE TANIGUCHI, University of Hyogo; Hiroshi Nakajima, OMRON Corporation; Naoki Tsuchiya, OMRON Corporation; Junichi Tanaka, OMRON Corporation; Aita Fumiji, OMRON Corporation; Yutaka Hata, University of Hyogo
TP4-4-4-(2)	152	17:40	A Feature Consisting of Mean, Standard Deviation, and LPC Cepstrum for the Prediction of Liver Fibrosis Stages in Chronic Hepatitis C: Second Report using Optimal Cepstral Order	Miho Ohsaki, Doshisha University; Akifumi Miyazaki; Shigeru Katagiri; Hideto Yokoi; Katsuhiko Takabayashi
TP4-4-4-(3)	394	18:00	Comparative Study on Feature Descriptors for Brain Image Analysis	Kazuhiko Tamaki, Mie University; Hiroharu Kawanaka
TP4-4-4-(4)	396	18:20	Morphological changes of aging brain structure in MRI analysis	Syoji Kobashi, University of Hyogo; Naotake Kamiura, University of Hyogo

TP4-4-5 Clustering -Fundamentals and Applications- 2
 Chair: Yukihiro Hamasuna (Kinki University)
 Room 5
 17:20-18:40, Dec. 4(Thu.)

TP4-4-5-(1)	84	17:20	A Comparative Study on Clustering-based Group Scenario Summarization in AHP	Akira Suwa, Osaka Prefecture University; Katsuhiko Honda, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University; Tomoe Entani, University of Hyogo
TP4-4-5-(2)	13	17:40	On Bezdek-type Fuzzy Clustering for Categorical Multivariate Data	Yuchi Kanzawa, Shibaura Institute of Technology
TP4-4-5-(3)	49	18:00	Privacy Preserving Fuzzy Co-clustering with Distributed Cooccurrence Matrices	Daiji Tanaka, Osaka Prefecture University; Toshiya Oda, Osaka Prefecture University; Katsuhiko Honda, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University

TP4-4-5-(4)	65	18:20	Evidential seed-based semi-supervised clustering	Violaine Antoine, LIMOS; Nicolas Labroche, LIP6; Viet Vu, Thai Nguyen University of Technology
-------------	----	-------	--	--

TP4-4-6 Soft Computing Techniques for Computer Vision
Chair: Motonori Doi (Osaka Electro-Communication University), Yoshimichi Ito (Osaka Electro-Communication University), Toshihiko Watanabe (Osaka Electro-Communication University)
Room 6
17:20-19:00, Dec. 4(Thu.)

TP4-4-6-(1)	368	17:20	An Additional Simple Calibration Method for Kinect Based on CMAC	Toshihiko Watanabe
TP4-4-6-(2)	364	17:40	Robust Estimation for Camera Homography by Fuzzy RANSAC Algorithm with Reinforcement Learning	Toshihiko Watanabe
TP4-4-6-(3)	187	18:00	Robust Color Object Tracking Method against Illumination Color Change	Motonori Doi, Osaka Electro-Comm Uni.; Takaaki Matsumoto; Akira Kimachi; Shogo Nishi; Norikazu Ikoma
TP4-4-6-(4)	217	18:20	Estimation of Geometric Parameters in 3D Reconstruction Problems Using Linear Matrix Inequalities	Yoshimichi Ito, Osaka Electro-Comm. University; Katsumi Irie; Shun Otsuka
TP4-4-6-(5)	59	18:40	Real-Time 3D Data Reduction and Reproduction of Spatial Model using Line Detection in RGB Image	Tomoko Yonezawa, Kansai University; Ken Ueda, Kansai University

TP4-4-7 Affective Mediation and Intermediation through Multimodal Interaction
Chair: Tomoko Yonezawa(Kansai University)
Room 7
15:05-16:45, Dec. 4(Thu.) (This session is moved to the PREVIOUS time slot. Time shown here is the correct time.)

TP4-4-7-(1)	191	15:05	Designing the Focalization Mechanism in an Integrated Narrative Generation System	Taisuke Akimoto, The University of Electro-Communications; Takashi Ogata, Iwate Prefectural University
TP4-4-7-(2)	196	15:25	Expanded Literary Theory for Automatic Narrative Generation	Takashi Ogata, Iwate Prefectural University
TP4-4-7-(3)	278	15:45	Shedule Managing Agent among Group Members with Caring Expressions	Kunihiko Fujiwara, Kansai University; Jumpei Nishinaka, Kansai University; Naoto Yoshida, Kansai University; Tomoko Yonezawa, Kansai University

TP4-4-7-(4)	279	16:05	Interactive Browsing Agent for the Novice User with Selective Information in Dialog	Tomoko Yonezawa, Kansai University; Yukari Nakatani, kansai University; Naoto Yoshida, Kansai University; Ayaka Kawamura, Kansai University
TP4-4-7-(5)	281	16:25	Automatic Acquisition of a Toilet Map Using a Wearable Camera	Hirotake Yamazoe, Osaka University; Tomoko Yonezawa, Kansai University; Shinji Abe

TP4-4-8 Intelligent Processing in Medical and Welfare Devices
Chair: Noboru Takagi (Toyama Prefectural University), Kouki Nagamune (University of Fukui)
Room 8
17:20-18:40, Dec. 4(Thu.)

TP4-4-8-(1)	252	17:20	Research of Rehabilitation Aid Device with DOF Constraintable Mechanism for Hemiplegic Upper Limbs	Koutaro Taniguchi, Kagoshima university; Yong YU, Kagoshima university; Tomokazu Noma, Kagoshima University; Ryota Hayashi, Kagoshima University; Shuji Matsumoto, Kagoshima University; Megumi Shimodozono; kazumi Kawahira
TP4-4-8-(2)	117	17:40	An Analysis of EndoButton Displacement and Attitude in Anterior Cruciate Ligament Reconstruction Using Bone Tunnel Axis	Yosuke Uozumi, University of Fukui; Kouki Nagamune, University of Fukui; Naoki Nakano, Kobe University; Kanto Nagai, Kobe University; Yuichiro Nishizawa, Kobe University; Shinya Oka, Kobe University; Daisuke Araki, Kobe University; Yuichi Hoshino, Kobe University; Takehiko Matsushita, Kobe University; Ryosuke Kuroda, Kobe University; Masahiro Kurosaka, Kobe University
TP4-4-8-(3)	118	18:00	A Measurement System of Manual Test Movement Using Marker from Optical Device	Feng Zhang, University of Fukui; Kouki Nagamune, University of Fukui; Shogo Kawaguchi, University of Fukui
TP4-4-8-(4)	119	18:20	A Development of Force Distribution Measurement System Around Greater Trochanter Under Pelvic Belt	Yusuke Shimizu, University of Fukui; Kouki Nagamune, University of Fukui GraduateSchool of Engineering; Keisuke Oe, Kobe University Graduate School of Medicine; Lee Yang, Kobe University Graduate School of Medicine; Takahiro Nikura, Kobe University Graduate School of Medicine; Ryosuke Kuroda, Kobe University; Masahiro Kurosaka, Kobe University

TP4-4-9

Cool Systems Engineering 2

Chair: Keitaro Naruse (University of Aizu), Masahito Yamamoto (Hokkaido University), Michiko Watanabe (Kitami Institute of Technology)

Room 9

17:20-18:40, Dec. 4 (Thu.)

TP4-4-9-(1)	233	17:20	Hybrid Genetic Algorithm with Priority Rule-based Reconstruction for Flexible Job-shop Scheduling	Soichiro Yokoyama, Hokkaido University; Hiroyuki Iizuka, Hokkaido University; Masahito Yamamoto, Hokkaido University
TP4-4-9-(2)	179	17:40	Insertion-based Particle Swarm Optimization with Local Interaction	Masaya Honjo, Hokkaido University; Hiroyuki Iizuka, Hokkaido University; Masahito Yamamoto, Hokkaido University
TP4-4-9-(3)	172	18:00	Visualization of Spread of Topic Words on Twitter using Stream Graphs and Relational Graphs	Keigo Anma, University of Aizu; Shunsuke Wada, University of Aizu; Kanto Nakayama, University of Aizu; Yuki Akamatsu, University of Aizu; Yuichi Yaguchi, University of Aizu; Keitaro Naruse, University of Aizu
TP4-4-9-(4)	194	18:20	Information Flow Clustering via Similarity of a Propagation Tree	Naoki Terunuma, University of Aizu; Yuichi Yaguchi, University of Aizu; Yutaka Watanobe, University of Aizu; Ryuichi Oka, University of Aizu

TP5-1-1

Cognitive Robotics 1

Chair: Takenori Obo, Naoyuki Kubota (Tokyo Metropolitan University), Honghai Liu (University of Portsmouth)

Room 1

8:40-10:00, Dec. 5 (Fri.)

TP5-1-1-(1)	I3	8:40	[Invited Talk] Exploring Human Motion Capabilities to Prostheses: Sensing, Algorithms and Applications	Honghai Liu, the University of Portsmouth
TP5-1-1-(2)	98	9:20	ConBe Robot: The Development of Self-Perception and Expression in Face-to-Face Interaction	Sakmongkon Chumkamon, Kyushu Institute of Technology; hayashi Eiji, Kyushu Institute of Technology
TP5-1-1-(3)	159	9:40	Improvement of the 2D SLAM system using Kinect Sensor for Indoor mapping	Muhammad Fahmi Abdul Ghani, Universiti Tenaga Nasional; Khairul Salleh Mohamed Sahari, Universiti Tenaga Nasional; Chu Kiong Loo, Universiti Malaya

TP5-1-2 Brain Computing Systems 1
 Chair: Takahiro Yamanoi (Hokkai-Gakuen Univ.), Suguru N. Kudoh (Kwansei Gakuin Univ.)
 Room 2
 8:40-10:00, Dec. 5 (Fri.)

TP5-1-2-(1)	313	8:40	Extraction of Attributes and Knowledge Rules for Sport Skill by TAM Network	Isao Hayashi, Kansai University; Toshiyuki Maeda, Hannan University; Masanori Fujii, Hannan University; Tokio Tasaka, Doshisha University
TP5-1-2-(2)	254	9:00	Stability of neuronal electrical activity pattern evoked by two inputs stimulation.	Yoshinori Matsui, Kwansei Gakuin University; Hidekatsu Ito, Kwansei Gakuin University; Wataru Minoshima; Suguru Kudoh
TP5-1-2-(3)	255	9:20	Improving performance and accuracy of the P300 speller via a second display	Yuya Yamamoto, Nagoya University; Tomohiro Yoshikawa; Takeshi Furuhashi
TP5-1-2-(4)	276	9:40	Validation of long-term changes of evoked response with Self-Organization Map	Fukui Yasuhiro, Kwansei Gakuin University; Hidekatsu Ito, Kwansei Gakuin University; Wataru Minoshima; Suguru Kudoh

TP5-1-3 Neural Networks
 Chair: Haruhiko Nishimura (University of Hyogo)
 Room 3
 8:40-10:00, Dec. 5 (Fri.)

TP5-1-3-(1)	66	8:40	Gradual Information Maximization to Clarify the Importance of Company Creeds	Ryozo Kitajima, Graduate School of Science and Technology, Tokai University; Ryotaro Kamimura, IT Education Center and Graduate School of Science and Technology, Tokai University
TP5-1-3-(2)	112	9:00	Q-learning in Continuous State-Action Space with Redundant Dimensions by Using a Selective Desensitization Neural Network	Takaaki Kobayashi, University of Tsukuba; Takeshi Shibuya, University of Tsukuba; Masahiko Morita, University of Tsukuba
TP5-1-3-(3)	367	9:20	Stochastic Weight Update for Recurrent Networks	Rudolf Jaksa, Technical University Kosice; Juraj Koscak; Peter Sincak, Technical University Kosice
TP5-1-3-(4)	150	9:40	Analysis of Routes to Chaos in Izhikevich Neuron Model with Resetting Process	Sou Nobukawa, University of Hyogo; Haruhiko Nishimura, University of Hyogo; Teruya Yamanishi, Fukui University of Technology; Jian-Qin Liu, National Institute of Information and Communications Technology

TP5-1-4 Intelligent Logistics & Automation Systems
 Chair: Yong-Tae Kim (Hankyong National University)
 Room 4
 8:40-10:00, Dec. 5 (Fri.)

TP5-1-4-(1)	360	8:40	Design of Simplified Fuzzy Logic Control System for Segway Mobile Robot	BYUNG-JAE CHOI, DAEGU UNIVERSITY; Hyunho Yoo, Daegu University
TP5-1-4-(2)	340	9:00	Navigation Method Using Fuzzy Line Tracking for the Transportation Robot	Nguyen Truc, Hankyong National University; Eun-Hey Sun, Hankyong National University; Young-Min Kim, Hankyong National University; Yong-Tae Kim, Hankyong National University
TP5-1-4-(3)	348	9:20	Platform of Tracked Electric Tower Wagon for Eco-Friendly Agriculture	Young-Jae Ryoo, Mokpo National University; Youngjun Lee, Mokpo National University
TP5-1-4-(4)	353	9:40	PassSign: A New Autographic Password Recognition Scheme for Intelligent Robots and Vehicles	Gi-Chul Yang, Mokpo National University

TP5-1-5 Rough sets, granular computing and their application 1
 Chair: Hiroshi Sakai (Kyushu Institute of Technology)
 Room 5
 8:40-9:40, Dec. 5 (Fri.)

TP5-1-5-(1)	30	8:40	Conjoint Effects of R&D on the Financial Performance of Semiconductor Companies: Rule-Based Granular Computing	Kao-Yi Shen, Chinese Culture University; Gwo-Hshiang Tzeng, National Taipei University; Min-Ren Yan, Chinese Culture University; Kuo-Ming Chien, National Applied Research Laboratories
TP5-1-5-(2)	374	9:00	Data Mining Approaches to the Characterizations of Nominees for FIFA Ballon d'Or Award	Renato Shibata, Osaka University; Masahiro Inuiguchi
TP5-1-5-(3)	380	9:20	Clustering and Forecasting of Region of Interest by Dividing Screen into Meshes in Video Frames	Wei QUAN, Waseda University; Watada Junzo, Waseda University

TP5-1-6 Biomedical Soft Computing Based on Human Sciences 1
 Chair: Masahiro Nakano (Junshin Gakuen University)
 Room 6
 8:40-10:00, Dec. 5 (Fri.)

TP5-1-6-(1)	398	8:40	A New Approach to clarify the Fuzziness of Medical Diagnosis by Diagnostic Layers -A Diagnostic System for Carpal Tunnel Syndrome with two layers of diagnostic filters using clinical indicators-	Seizaburo Arita, Kansai Medical University; Hiroyuki Hashshizume, Kasaoka Hand & UE Center Kasaoka Daiichi Hospital; Mitsugi Honda, Department of Central Division of Radiology, Okayama University Hospital
TP5-1-6-(2)	399	9:00	A Questionnaire Analysis by Fuzzy Reasoning for Undergraduate Students in Mathematics Lectures applying the Kano Model	Satoru Takagi, Kogakuin University; Hiroaki Uesu, Waseda University
TP5-1-6-(3)	400	9:20	Hand Bones Radiograph Segmentation by Using Novel Method Based on Morphology and Fractal	Syaiful Anam, Yamaguchi University; Eiji Uchino, Yamaguchi University; Noriaki Suetake, Yamaguchi University
TP5-1-6-(4)	401	9:40	Human Detection Using a Salient Region	Gu Teng-Long, Kyushu Institute of Technology; Joo Tan, Kyushu Institute of Technology; Yutaro Yamamura; Seiji Ishikawa, Kyushu Institute of Technology

TP5-1-7 Application to managerial decision making 1
Chair: Dongjoon Lee (NUCB), Sangheon Han(NUCB)
Room 7
8:40-10:00, Dec. 5 (Fri.)

TP5-1-7-(1)	158	8:40	Optimal job routine assignment based on skills and knowledge of production staff	Hajime Eguchi, Nagoya Institute of Technology
TP5-1-7-(2)	153	9:00	A practical approaches to decrease the consistency index in AHP	Sangheon Han, NUCB
TP5-1-7-(3)	130	9:20	Price versus Quantity Competition with Asymmetric Costs in a Vertically Related Duopoly	DongJoon Lee, NUCB; Joonghwa Oh, Nagoya University of Commerce & Business
TP5-1-7-(4)	247	9:40	Growth Potential Analysis with Application to a Business Simulation Game by DEA	Zheua Zhang, OIU; Sangsu HAN, Osaka International University

TP5-1-8 Intelligent Approaches and Applications 1
Chair: C. W. Tao and Jyh-Yeong Chang
Room 8
8:40-10:00, Dec. 5 (Fri.)

TP5-1-8-(1)	312	8:40	Similarity Based ART 1 Model for Automatic Die Defect Detection and Classification	Jyh-Yeong Chang, National Chiao Tung University; Wei-Lun Chang, Department of Electrical Engineering, Chiao Tung University, Hsinchu TAIWAN
TP5-1-8-(2)	165	9:00	Enhanced Simultaneous Localization and Mapping (ESLAM) for Mobile Robots	Tung-Yuan Lin, National Taiwan Normal University; Chen-Chien Hsu, National Taiwan Normal University; Wei-Yen Wang; Yin-Tien Wang, Tamkang University; I-Hsum Li
TP5-1-8-(3)	70	9:20	Design of a DSP-based biaxial solar tracking system	C.W. Tao, National ILan University; Chen-Chia Chuang, Depart. E.E., NIU; Chia-Wen Chang
TP5-1-8-(4)	97	9:40	Expert systems for Information Security Management and Audit. Implementation phase issues.	Lyazzat Atymtayeva, Kazakh-British Technical Unive; maksat Kanatov, KBTU; Bagdat Yagaliyeva, KBTU

TP5-1-9 Human assist intelligent systems and service robots 1
Chair: Hakaru Tamukoh (Kyushu Institute of Technology), Eiichi Inohira (Kyushu Institute of Technology)
Room 9
8:40-10:00, Dec. 5 (Fri.)

TP5-1-9-(1)	115	8:40	Development of Positioning Device for Evaluation of Omni-directional Collision Detecting Bumper	Noriyuki SHIMPUKU, Kyushu Institute of Technology; Asahi MATSUKI, Kyushu Institute of Technology; Hiroyuki MIYAMOTO, Kyushu Institute of Technology
TP5-1-9-(2)	162	9:00	Complementary Filter for Orientation Estimation: Adaptive gain based on dynamic acceleration and its change	Romy Widodo, Kyushu Institute of Technology; Hiraku Edayoshi, Kyushu Institute of Technology; Chikamune Wada, Kyushu Institute of Technology
TP5-1-9-(3)	249	9:20	Color Conversion Algorithm for Color Blindness using Self-Organizing Map	Hideaki Orii, Fukuoka University; Hideaki Kawano, Kyushu Institute of Technology; Hiroshi Maeda, Kyushu Institute of Technology; Takaharu Kouda, Fukuoka University
TP5-1-9-(4)	177	9:40	Development of Tendon-Driven Robotic Hand for Biped Humanoid Robot	Yuki Kamogawa, Kanagawa University; Hun-ok Lim, Kanagawa University

TP5-2-1 Cognitive Robotics 2
Chair: Takenori Obo, Naoyuki Kubota (Tokyo Metropolitan University), Honghai Liu (University of Portsmouth)
Room 1
10:15-11:15, Dec. 5 (Fri.)

TP5-2-1-(1)	137	10:15	Robot-Human Handover Based on Position and Posture of Human Hand	Futoshi Kobayashi, Kobe University; Kouki Okamoto; Fumio Kojima
TP5-2-1-(2)	275	10:35	Humanoid Behaviour Learning through Visuomotor Association by Self-Imitation	Farhan Dawood, University of Malaya; Chu Kiong Loo, Universiti Malaya
TP5-2-1-(3)	369	10:55	Word-of-mouth Recommender System using Preference Extraction based on IEC	Jun Shimazaki, Tokyo Metropolitan University; Takenori Oobo, Tokyo Metropolitan University; Naoyuki Kubota

TP5-2-2 Brain Computing Systems 2
Chair: Takahiro Yamanoi (Hokkai-Gakuen Univ.), Suguru N. Kudoh (Kwansei Gakuin Univ.)
Room 2
10:15-11:35, Dec. 5 (Fri.)

TP5-2-2-(1)	271	10:15	Leveraging Neuronal Signaling Substrate for Intrabody Nanoscale Sensor Networks	Junichi Suzuki, University of Massachusetts, B; Pruet Boonma, Chiang Mai University
TP5-2-2-(2)	178	10:35	Causal Analysis Based on Integration of Different Indices	Hiroataka Wada, OMRON Corporation; Naoki Tsuchiya, OMRON Corporation; Hiroshi Nakajima, OMRON Corporation
TP5-2-2-(3)	238	10:55	The effects of transient abolishment of electrical activity on dynamics in a dissociated neuronal network.	Ohki Yuto, Kwanseigakuin University; Hidekatsu Ito, Kwansei Gakuin University; Wataru Minoshima; Suguru Kudoh
TP5-2-2-(4)	167	11:15	Fractal Dimension Methods to Determine Optimum EEG Electrode Placement for Concentration Estimation	Hossein Siamaknejad, University of Malaya; Liew Wei Shiung, University of Malaya; Chu Kiong Loo, Universiti Malaya

TP5-2-3 Machine Learning 3
Chair: Keisuke Yamazaki (Tokyo Institute of Technology)
Room 3
10:15-11:35, Dec. 5 (Fri.)

TP5-2-3-(1)	39	10:15	Two Statistical Methods for Grouping Vehicles in Traffic Flow Based on Probabilistic Cellular Automata	Fumito Nakamura, Tokyo Institute of Technology; Keisuke Yamazaki, Tokyo Institute of Technology
TP5-2-3-(2)	40	10:35	The Optimal Hyperparameter for Bayesian Clustering and its Application to the Evaluation of Clustering Results	Keisuke Yamazaki, Tokyo Institute of Technology

TP5-2-3-(3)	61	10:55	Discounted UCB1-tuned for Q-Learning	Koki Saito, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University; Katsushi Honda, Osaka Prefecture University
TP5-2-3-(4)	214	11:15	An Approach to Category Classification of Cosmetics Reviews based on Brand Names	Sayuri Anbe, Ochanomizu University; Ichiro Kobayashi, Ochanomizu University

TP5-2-4 Recommender Systems
Chair: Jee-Hyong Lee (Sungkyunkwan University)
Room 4
10:15-11:35, Dec. 5 (Fri.)

TP5-2-4-(1)	215	10:15	Friends-and-native-people-aware Approach for Collaborative Filtering	AARON, CHI YI LING, DONGSEO UNIVERSITY; Dae-Ki Kang, Dongseo University
TP5-2-4-(2)	316	10:35	Improving a Recommender System by Collective Matrix Factorization with Tag Information	Bu Sung Kim, Sungkyunkwan University; Heera Kim; Jaedong Lee; Jee-Hyong Lee
TP5-2-4-(3)	330	10:55	Group Recommendation System: Focusing on Home Group User in TV Domain	Noo-ri Kim, Sungkyunkwan University; Jee-Hyong Lee
TP5-2-4-(4)	320	11:15	Comparison of Techniques for Time Aware TV Channel Recommendation	SungTak Oh, Sungkyunkwan University; Noo-ri Kim, Sungkyunkwan University; Jaedong Lee; Jee-Hyong Lee

TP5-2-5 Rough sets, granular computing and their application 2
Chair: Masahiro Inuiguchi (Osaka University)
Room 5
10:15-11:15, Dec. 5 (Fri.)

TP5-2-5-(1)	371	10:15	Empty-Stringizing of the False Value in Crisp and Fuzzy Granular Hierarchical Structures	Takehiro Tanaka; Tetsuya Murai, Hokkaido University; Yasuo Kudo, Muroran IT; Seiki Akama
TP5-2-5-(2)	383	10:35	Some Properties of Interrelated Attributes in Relative Reducts for Interrelationship Mining	Yasuo Kudo, Muroran Institute of Technology; Tetsuya Murai, Hokkaido University
TP5-2-5-(3)	357	10:55	Toward the Enhancement of the getRNIA System for Rough-Set Based Data Analysis	Mao Wu, Kyushu Institute of Technology; Naoto Yamaguchi, Kyushu Institute of Technology; Chenxi Liu, Kyushu Institute of Technology; Hiroshi Sakai

TP5-2-6 Biomedical Soft Computing Based on Human Sciences 2

Chair: Masahiro Nakano (Junshin Gakuen University)
 Room 6
 10:15-11:35, Dec. 5 (Fri.)

TP5-2-6-(1)	402	10:15	Histogram of Spatio Temporal Local Binary Patterns for Human Action Recognition	Sk. Md. Masudul Ahsan, Kyushu Institute of Technology; Joo Tan, Kyushu Institute of Technology; Yutaro Yamamura; Seiji Ishikawa, Kyushu Institute of Technology
TP5-2-6-(2)	403	10:35	Least square evaluation of Head Injury Criterion (HIC) for various situations	Masahiro Nakano, Junshin Gakuen University; Makoto Matsuura, Junshin Gakuen University; Hiroyuki Matsuura, National Center for Geriatrics and Gerontology; Masaaki Tamagawa, Kyushu Institute of Technology; Toru Yukimasa, University of Occupational and Environmental Health
TP5-2-6-(3)	404	10:55	Small-angle measurements of proton-carbon nuclear reaction for secondary dose estimation	Y. Uozumi; T. Hashiguchi, Kyushu University; H. Yoneshige, Kyushu University; A. Sonoda, Kyushu University; Y. Koba, National Institute for Radiological Sciences
TP5-2-6-(4)	405	11:15	Relationship between logistic chaos and randomness using a matrix of probabilities and its application to the classification of time series	Seizaburo Arita, Kansai Medical University

TP5-2-7 Application to managerial decision making 2
 Chair: Dongjoon Lee (NUCB), Sangheon Han (NUCB)
 Room 7
 10:15-10:55, Dec. 5 (Fri.)

TP5-2-7-(1)	253	10:15	Real time decision making forecasting using Data mining and Decision tree	Md Asaduzzaman, University of Fukui; Kazuyuki Murase, University of Fukui
TP5-2-7-(2)	240	10:35	A Group Consensus Building Model By the DEAHP	Zheua Zhang, OIU; Ridwan Achyar, Osaka International University; Sangsu HAN, Osaka International University

TP5-2-8 Intelligent Approaches and Applications 2
 Chair: Jin-Tsong Jeng and Mei-Yung Chen

Room 8
10:15-11:35, Dec. 5 (Fri.)

TP5-2-8-(1)	56	10:15	Moral Judgment System Using Evaluation Expressions	Masahiro Yamamoto, Keio University; Masafumi Hagiwara
TP5-2-8-(2)	51	10:35	Mining Implicit Outlier Purchasing Behaviors from Fan Group Marketing Data	Li-Jen Kao, Hwa Hsia Institute of Technology; Yo-Ping Huang, National Taipei University of Technology
TP5-2-8-(3)	67	10:55	Feature Genes Selection and Classification with SVM for Microarray Data of Lung Tissue	Jin-Tsong jeng, NFU; Shun-Feng Su, NTUST; Chih-Ching Hsiao, Kao Yuan University
TP5-2-8-(4)	63	11:15	Adaptive Incremental Sliding Mode Controller for a Linear Permanent Magnet Iron Core Synchronous Motor and Chattering Reduction	Mei-Yung Chen, National Taiwan Normal Univers; Chieh-Kuo Lin, Nation Taiwan Normal University

TP5-2-9 Human assist intelligent systems and service robots 2
Chair: Hakaru Tamukoh (Kyushu Institute of Technology), Eiichi Inohira (Kyushu Institute of Technology)
Room 9
10:15-11:15, Dec. 5 (Fri.)

TP5-2-9-(1)	174	10:15	Estimation and Improvement of Foot Pressure Measurement System for Standing-Up Motion in Elderly	FANG JIN, Kyushu Institute of Technology; Tadahiro Arima, Kyushu Institute of Technology; Chikamune Wada, Kyushu Institute of Technology
TP5-2-9-(2)	379	10:35	Interference of Waves Based Usage of an Optimization Algorithm for Finding Rules in an Agent System	Tomas Cadrik, Technical university of Kosice; Marián Mach, Technical university of Kosice; Peter Sincak, Technical University Kosice
TP5-2-9-(3)	351	10:55	User's Moving Intention Identification for Human Support Robot	Shen Bo, Kochi university of technology; Wang Shuoyu, Kochi University of Technology; Wang Yina, Kochi University of Technology

TP5-3-1 Brain Computing Systems 3
Chair: Takahiro Yamanoi (Hokkai-Gakuen Univ.), Suguru N. Kudoh (Kwansei Gakuin Univ.)
Room 1
15:35-16:35, Dec. 5 (Fri.)

TP5-3-1-(1)	I2	15:35	[Invited Talk] Elucidation of Brain Functions by Dipole Estimation of EEGs and its Applications to Brain Computer Interface	Takahiro Yamanoi, Hokkai Gakuen University
-------------	----	-------	---	--

TP5-3-1-(2)	106	16:15	Extracting Train Driver's Perception Strategies Using Interpretive Structural Modeling	Yukio Horiguchi, Kyoto University; Takayuki Suzuki, Kyoto University; Tetsuo Sawaragi, Kyoto University; Hiroaki Nakanishi, Kyoto University; Tetsuya Nakamura, West Japan Railway Company; Michinori Muneshige, West Japan Railway Company; Hidefumi Nishimoto, West Japan Railway Company; Tomoharu Takimoto, West Japan Railway Company
-------------	-----	-------	--	--

TP5-3-2 Fuzzy Systems 3
Chair: Jun Yoneyama (Aoyama Gakuin University)
Room 2
15:35-16:55, Dec. 5 (Fri.)

TP5-3-2-(1)	94	15:35	Application of Fuzzy Inference Engine as an Automatic Switch between ensembles of Clustering Methods	Maslina Zolkepli, Tokyo Institute of Technology; Fangyan Dong, Tokyo Institute of Technology; Kaoru Hirota, Tokyo Institute of Technology
TP5-3-2-(2)	120	15:55	Output Feedback Control Design with Guaranteed Cost of Takagi-Sugeno Fuzzy Systems	Jun Yoneyama, Aoyama Gakuin University; Kenta Hoshino, Aoyama Gakuin University
TP5-3-2-(3)	147	16:15	Likelihood Inference based on Fuzzy Data in Regression Model	Seunghoe Choi, Korea Aerospace University; Hyeyoung Jung, Seoul National University; Woo Joo Lee, Yonsei University; Jin hee Yoon, Sejong University
TP5-3-2-(4)	218	16:35	Privacy Preserving Extraction of Fuzzy Rules from Distributed Data with Different Attributes	Jiang Jinsai, Osaka Prefecture University; Umano Motohide, Osaka Prefecture University

TP5-3-3 Soft Computing 2
Chair: Manabu Shimakawa (Kumamoto National College of Technology)
Room 3
15:35-16:55, Dec. 5 (Fri.)

TP5-3-3-(1)	100	15:35	Study on Stairs Detection using RGB-Depth Images	Soichiro Murakami, Kumamoto NCT; Manabu Shimakawa; Takashi Kato; Kimiyasu Kiyota
TP5-3-3-(2)	29	15:55	Local Binary Feature Based on Census Transform for Mobile Robot	Yasufumi Touma, Kyushu Institute of Technology; Hayato Hagiwara, Kyushu Institute of Technology; Kenichi Asami, Kyushu Institute of Technology; Mochimitsu Komori, Kyushu Institute of Technology

TP5-3-3-(3)	146	16:15	A Pedestrian Detection Method Using the Extension of the HOG Feature	Yuki Nakashima, Kyushu Institute of Technology; Joo Tan, Kyushu Institute of Technology; Seiji Ishikawa, Kyushu Institute of Technology
TP5-3-3-(4)	234	16:35	Hybrid Feedback GMDH-type Neural Network Using Principal Component-Regression Analysis and Its Application to Medical Image Recognition of Heart Regions	Tadashi Kondo, Tokushima University; Junji Ueno, Tokushima University; Schoichiro Takao, Tokushima University

TP5-3-4 Intelligent system of industrial applications
Chair: Youngchul Bae (Chonnam National University)
Room 4
15:35-17:15, Dec. 5 (Fri.)

TP5-3-4-(1)	333	15:35	Development of heat generating system based on small wind turbine system	Furqan Asghar, Kunsan national university; se-yoon kim, kunsan national university; Sung Ho kim, kunsan national university
TP5-3-4-(2)	321	15:55	Energy-efficient Two-Hop Transmission Prioritization Scheme for Wireless Body Area Networks	Regin Cabacas, Kunsan National University; Hyunho Yang, Dept. of Teecommunication and Information Engineering Kunsan National University; In-Ho Ra, Dept. of Information and Telecommunications Engineering Kunsan National Univ.
TP5-3-4-(3)	304	16:15	Mathematical Analysis of Line Intersection Algorithm for TOA Trilateration Method	sajina Pradhan; Suk-seung Hwang, Chosun University
TP5-3-4-(4)	306	16:35	Implementation of Motor Controller using Zynq EPP	Younf Pil Lee, READONE TECHNOLOGIES CO., LTD; Yong seon Moon, Sunchon National University; HuangLin Yun, Chonnam. National University; Youngchul Bae, Chonnam National University
TP5-3-4-(5)	20	16:55	Adaptive Observer-based Tracking Control of Underactuated Surface Vessels	Bong Seok Park, Chosun Univ'

TP5-3-5 Medical and Human Assist Systems
Chair: Kazuo Kiguchi (Kyushu University)
Room 5
15:35-16:55, Dec. 5 (Fri.)

TP5-3-5-(1)	329	15:35	Estimation of Upper-Limb Motion in Sagittal Plane Based on EEG Signals	Yoshiaki Hayashi, Saga University
-------------	-----	-------	--	-----------------------------------

TP5-3-5-(2)	352	15:55	A Study on Motion Modification Force in Perception-Assist for a Lower-Limb Power-Assist Exoskeleton	Kazuo Kiguchi, Kyushu University; Atsushi Komori, Kyushu University; Taiki Kouno, Kyushu University
TP5-3-5-(3)	283	16:15	Mechanism study for Microsurgical Robotic System that can induce Multisensory Illusion	Jumpei Arata, Kyushu University; Hattori Masashi, Nagoya Institute of Technology; Masamichi Sakaguchi, Nagoya Institute of Technology; Ryu Nakadate, Kyushu University; susumu Oguri, Kyushu University; Makoto Hashizume, Kyushu University
TP5-3-5-(4)	144	16:35	Mammographic Density Classification	Piyamas Suapang, Rangsit University

TP5-3-6 Biomedical Soft Computing Based on Human Sciences 3
Chair: Seiji Ishikawa (Kyushu Institute of Technology)
Room 6
15:35-16:35, Dec. 5 (Fri.)

TP5-3-6-(1)	188	15:35	Analysis of Single-Trial Event-Related Potentials	Hiroki Higa, University of the Ryukyus; Takeshi Tamaki, University of the Ryukyus
TP5-3-6-(2)	73	15:55	Context-specific biological network construction	Yousang Jo, KAIST; Doheon Lee, KAIST; Kwang H. Lee, KAIST
TP5-3-6-(3)	24	16:15	Protein Named Entity Classification with Probabilistic Features Derived from GENIA Corpus and MEDLINE	Sagara Sumathipala, Nagaoka University of Technolo; Koichi Yamada, Nagaoka University of Technology; Muneyuki Unehara, Nagaoka University of Technology

TP5-3-7 Forecasting
Chair: Kazuhiro Takeyasu (Tokoha University), Yasuo Ishii (Osaka International University)
Room 7
15:35-17:15, Dec. 5 (Fri.)

TP5-3-7-(1)	286	15:35	Possibility Predict Japanese Artist's Reputation in the world using the Mathematical Model of Hit Phenomena	Kawahata Yasuko, Kyushu University; Etsuo Genda, Kyushu University; Akira Ishii, Tottori University
TP5-3-7-(2)	11	15:55	A Hybrid Method for Forecasting With An Introduction of a Day of the Week Index to the Daily Shipping Data of Sanitary Materials	Kazuhiro Takeyasu, Tokoha University; Daisuke Takeyasu, The Open University of Japan; Hirotake Yamashita, Chubu University

TP5-3-7-(3)	15	16:15	Overall Sensitivity Analysis Utilizing Bayesian Network for the Questionnaire Investigation on SNS	Tsuyoshi Aburai, Doshisha University; Kazuhiro Takeyasu, Tokoha University
TP5-3-7-(4)	17	16:35	A hybrid method to improve forecasting accuracy utilizing genetic algorithm and its application to stock market price data (J-REIT: residential type)	Yasuo Ishii, Osaka International University; Kazuhiro Takeyasu, Tokoha University
TP5-3-7-(5)	58	16:55	Improving Forecasting Accuracy in the Case of Prepared frozen foods Trough the Utilization of Genetic Algorithm	Yuki Higuchi, Setsunan University; Hiromasa Takeyasu, Kagawa Junior College; Kazuhiro Takeyasu, Tokoha University

TP5-3-8 Intelligent Approaches and Applications 3
Chair: Chen-Chia Chuang and Chih-Ching Hsiao
Room 8
15:35-16:55, Dec. 5 (Fri.)

TP5-3-8-(1)	12	15:35	Robust interval support vector interval regression networks for interval-valued data with outliers	Chen-Chia Chuang, Depart. E. E., NIU; Shun-Feng Su, NTUST; Chih-Wen Li, NIU; Jin-Tsong jeng, NFU; Chih-Ching Hsiao, Kao Yuan University
TP5-3-8-(2)	23	15:55	The Difficulty Estimation Method for Mystery Novels using Context Analysis	Seiya Hiraoka, KNCT; Noriyuki Okumura, Kagawa National College of Technology
TP5-3-8-(3)	38	16:15	Multi-Root I/O Virtualization Based Redundant Systems	Sendren Sheng-Dong Xu, National Taiwan University of ; Chia-Hong Wang, Grad. Inst. of Automation and Control, National Taiwan Uni. of Sci. & Tech. ; Teng-Chang Chang; Shun-Feng Su, NTUST
TP5-3-8-(4)	273	16:35	Autonomous landing System for Aerial Mobile Robot Cooperation	Min-Fan Ricky Lee, National Taiwan University of Science and Technology; Shun-Feng Su; Jie-Wei Eric Yeah, National Taiwan University of Science and Technology; Husan-Ming Huang, National Taiwan University of Science and Technology; Jonathan Chen, University of California Los Angeles

TP5-3-9 New Generation Computing Paradigm
Chair: Akihiro Fujiwara (Kyushu Institute of Technology)
Room 9
15:35-17:15, Dec. 5 (Fri.)

TP5-3-9-(1)	221	15:35	Subjective Speed Evaluation on Striped Image	Shunta Ando; Kaori Yoshida, Kyushu Institute of Technology
TP5-3-9-(2)	288	15:55	An Implementation of Tracing Attacks on Advanced Persistent Threats by Using Actors Model	Takatoshi Murakami, Kyushu Institute of Technology; Shuhei Kumano, Kyushu Institute of Technology; Hiroshi Koide, Kyushu Institute of Technology
TP5-3-9-(3)	294	16:15	Evolutionary Algorithms for the Pursuit Problem	Keisuke Tahara, Kyushu Institute of Technology; Eiji Miyano, Kyushu Institute of Technology
TP5-3-9-(4)	151	16:35	Human-based Genetic Algorithm for Facilitating Practical Use of Data in the Internet	Ryosuke Hasebe, Kyushu Institute of Technology; Rina Kouda, Kyushu Institute of Technology; Kei Ohnishi, Kyushu Institute of Technology; Masaharu Munetomo, Information Initiative Center, Hokkaido University
TP5-3-9-(5)	105	16:55	Enzymatic Numerical P Systems for basic operations and sorting	Shohei Maeda, Kyushu Institute of Technology; Akihiro Fujiwara, Kyushu Institute of Technology

TP6-1-1 Intelligent Image and Signal Processing 1
Chair: Gerald Schaefer; Md. Atiqur Rahman Ahad (Loughborough University; University of Dhaka)
Room 1
9:55-10:55, Dec. 6 (Sat.)

TP6-1-1-(1)	I4	9:55	[Invited Talk] Addressing class imbalance in pattern classification problems	Gerald Schaefer, Loughborough University
TP6-1-1-(2)	140	10:35	Multi-tensor Completion for Estimating Missing Values in Video Data	Chao Li, RIKEN Brain Science Institute; Lili Guo, Harbin Engineering University; Andrzej Cichocki, RIKEN

TP6-1-2 Digital Monozukuri
Chair: Aynur Unal (Ansal University), Jay Rajasekera (International University of Japan), Durgesh Kumar Mishra
Room 2
9:55-10:55, Dec. 6 (Sat.)

TP6-1-2-(1)	212	9:55	Design and Analysis of Electric Micro Vehicle with Tubular Frame Structure	Ichirota Kanai, Kanagawa University; Naoki Fujinami; Hun-ok Lim, Kanagawa University
TP6-1-2-(2)	377	10:15	Simulation and Analysis of vector control of Induction Motor	Abhishek Jain, Ansal University; Aynur Unal; Sumit Maitra, Ansal University; Antimdev Mishra, Ansal University

TP6-1-2-(3)	391	10:35	Early detection of Heart Diseases using ANN	Chandraveer Rathore, Ansal University; Aynur Unal; Shivaen Katial; Antimdev Mishra, Ansal University; Saurabh Juneja, Ansal University
-------------	-----	-------	---	--

TP6-1-3 Decision Making and Soft Computing Techniques under Uncertainty
Chair: Takashi Hasuike (Osaka University)
Room 3
9:55-10:35, Dec. 6 (Sat.)

TP6-1-3-(1)	160	9:55	Constructive Method for Appropriate Membership Function Integrating Fuzzy Entropy with Smoothing Function into Interval Estimation	Takashi Hasuike, Osaka University; Hideki Katagiri, Hiroshima University; Hiroe Tsubaki, The Institute of Statistical Mathematics
TP6-1-3-(2)	104	10:15	Predicting Human Decisions from Eye-Tracking Records	Haruhiko Takeuchi, AIST

TP6-1-4 Human Friendly Computing and Systems 1
Chair: Atsushi Inoue (Eastern Washington University)
Room 4
9:55-10:55, Dec. 6 (Sat.)

TP6-1-4-(1)	343	9:55	Fundamental Frequency of Child-Directed Speech Using Automatic Speech Recognition	Mark VanDam, Washington State University; Paul De Palma, Washington State University
TP6-1-4-(2)	349	10:15	Perceptual Color Space: Motivations, Methodology, Applications	Pakizar Shamoii, KBTU; Hiroharu Kawanaka; Atsushi Inoue
TP6-1-4-(3)	280	10:35	An Interactive Stuffed-toy Device for Communicative Description on Twitter	Haruka Mase, Kansai University; Yuya Yoshida; Tomoko Yonezawa, Kansai University

TP6-1-5 Image and Medical Image Processing 1
Chair: Hidetaka Arimura (Kyushu University)
Room 5
9:55-10:55, Dec. 6 (Sat.)

TP6-1-5-(1)	204	9:55	Automatic Identification of Lung Candidate Nodules from TemporalSubtraction Images by Using Chest CT Images	Shuji Tanaka, Kyushu Institute of Technology
-------------	-----	------	---	--

TP6-1-5-(2)	85	10:15	Three-Dimensional Non-Rigid Registration of Thoracic CT Image Based on Finite Element Method	Shota Yamada, Kyushu Institute Of Technology
TP6-1-5-(3)	86	10:35	Automatic Detection of GGO Regions on CT Images in LIDC Dataset Based on Statistical Features	Keisuke Yokota, Kyusyu Institute of Technology

TP6-1-6 Application to Business
Chair: Yukio Kodono (Osaka International University), Yoshiyuki Yabuuchi (Shimonoseki City University)
Room 6
9:55-10:55, Dec. 6 (Sat.)

TP6-1-6-(1)	296	9:55	Analysis using rough set of time series data including a large variation	Yoshiyuki Matsumoto, Shimonoseki City University
TP6-1-6-(2)	55	10:15	The Management Strategy of Master Kong based on Fuzzy VRIO Analysis	CHIH SHENG CHIA, Graduate School of Osaka Inter; Yukio Kodono, Osaka International University
TP6-1-6-(3)	157	10:35	Fuzzy Robust Regression Models based on Granularity and Possibility Distribution	Yoshiyuki Yabuuchi, Shimonoseki City University; Junzo Watada, Waseda University

TP6-1-7 Total Environment for Text Data Mining 1
Chair: Mitsunori Matsushita (Kansai University)
Room 7
9:55-10:35, Dec. 6 (Sat.)

TP6-1-7-(1)	244	9:55	Constructing Knowledge Using Exploratory Text Mining	Naoya Otsuka, Kansai University; Mitsunori Matsushita, Kansai University
TP6-1-7-(2)	52	10:15	Harmful Comments Extraction from a Bulletin Board System using Word Meaning and Impression on Thread Context	Yoko Nishihara, Ritsumeikan University; Kazuki Iwasa; Junichi Fukumoto; Ryosuke Yamanishi

(TP6-1-7-(3) is moved to poster session.)

TP6-1-8 Collective Intelligence and Intelligent Data Analysis
Chair: Katsuhiro Honda (Osaka Prefecture University)
Room 8
9:55-11:15, Dec. 6 (Sat.)

TP6-1-8-(1)	50	9:55	Epidemic Process Simulator by Multi Agent Simulation Considering Urban Models	Hattori Yuichi, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University; Katsuhiko Honda, Osaka Prefecture University
TP6-1-8-(2)	26	10:15	Estimation of comparisons based on Interval AHP	Tomoe Entani, University of Hyogo
TP6-1-8-(3)	19	10:35	Exclusive Condition on Item Partition in Fuzzy Co-clustering Based on K-L Information Regularization	Katsuhiko Honda, Osaka Prefecture University; Chi-Hyon Oh, Osaka University of Economics and Law; Akira Notsu, Osaka Prefecture University
TP6-1-8-(4)	42	10:55	Utility of Turning Spot Learning under Complex Goal Search and the Limit of Memory Usage	Yuki Tezuka, Osaka Prefecture University; Akira Notsu, Osaka Prefecture University; Katsuhiko Honda, Osaka Prefecture University

TP6-2-1 Intelligent Image and Signal Processing 2
Chair: Gerald Schaefer; Md. Atiqur Rahman Ahad (Loughborough University; University of Dhaka)
Room 1
11:10-12:30, Dec. 6 (Sat.)

TP6-2-1-(1)	15	11:10	[Invited Talk] Challenges and Constraints of Action Analysis	Md. Atiqur Rahman Ahad, University of Dhaka
TP6-2-1-(2)	46	11:50	A Three-Dimensional Macrophages Movement Analyser	Benjamin Culeux, Osaka Prefecture University; Tomoharu Nakashima, Osaka Prefecture University
TP6-2-1-(3)	246	12:10	Object Recognition based on Inhibition-of-Return Control using Particle Filter	Yasuto Tamura, Kanagawa university; Hun-ok Lim, Kanagawa University

TP6-2-2 Methods and Applications of Soft Computing
Chair: Sungshin Kim (Pusan National University)
Room 2
11:10-12:30, Dec. 6 (Sat.)

TP6-2-2-(1)	45	11:10	Sequence Alignment of Dynamic Intervals for Keystroke Dynamics based User Authentication	Jiacang Ho, Dongseo University; Dae-Ki Kang, Dongseo University
TP6-2-2-(2)	213	11:30	Novel Naive Bayes Based on Attribute Weighting in Kernel Density Estimation	Zhongliang Xiang, Weifang University of Science ; Xiangru Yu, Weifang University of Science ; ALEX MING HUI WONG, DONGSEO UNIVERSITY; Dae-Ki Kang, Dongseo University
TP6-2-2-(3)	331	11:50	Fuzzy Decision Tree based GentleBoost Algorithm for Detecting Chaff Echo in Weather Radar Data	Hansoo Lee, Pusan National University; Sungshin Kim, Pusan National University

TP6-2-2-(4)	332	12:10	Short-term hourly load forecasting using PSO-based AR model	Jungwon Yu; Hansoo Lee, Pusan National University; Yeongsang Jeong; Sungshin Kim, Pusan National University
-------------	-----	-------	---	---

TP6-2-4 Human Friendly Computing and Systems 2
Chair: Atsushi Inoue (Eastern Washington University)
Room 4
11:10-12:30, Dec. 6 (Sat.)

TP6-2-4-(1)	134	11:10	Fast Algorithm for Character Line Extraction from Handwritten Examination Papers	Katsunari Goto, Mie University; Chinthaka Premachandra, Tokyo University of Science; Shinji Tsuruoka; Haruhiko Takase; Hiroharu Kawanaka
TP6-2-4-(2)	131	11:30	Study on Logotype Design Based on Target Impression	Kento Hagiwara, University of Tsukuba; Takehisa Onisawa, University of Tsukuba
TP6-2-4-(3)	113	11:50	A Learning Method for Extended SpikeProp without Redundant Spikes -Automatic Adjustment of Hidden Units-	Takashi Matsumoto, Mie University; Yuta Shin; Haruhiko Takase; Hiroharu Kawanaka; Shinji Tsuruoka
TP6-2-4-(4)	108	12:10	Development of an Air-Ground Operational Robot and Its Fundamental Controlling Approach	Masahiro Ootsuka, Tokyo University of Science; Chinthaka Premachandra, Tokyo University of Science; Kiyotaka Kato, Tokyo University of Science

TP6-2-5 Image and Medical Image Processing 2
Chair: Hyoungseop Kim (Kyushu Institute of Technology)
Room 5
11:10-12:30, Dec. 6 (Sat.)

TP6-2-5-(1)	101	11:10	An approach of exposure dose reduction of cone-beam computed tomography in an image guided patient positioning system by using various noise suppression filters	HIDEMI KAMEZAWA, Kyushu University; HIDETAKA ARIMURA, Kyushu University; KATSUTOSHI SHIRIEDA; NOBORU KAMEDA; MASAFUMI OHKI
TP6-2-5-(2)	88	11:30	High Speed Image Registration of Head CT and MR Images Based on Levenberg-Marquardt Algorithm	Mio Kasaki, kisakikit
TP6-2-5-(3)	193	11:50	Person Tracking on Kinect Images Using Particle Filter	Atsushi Yoshida, Kyushu Institute of Technology

TP6-2-5-(4)	303	12:10	An Image Registration Method for Head CTA and MRA Images Using Mutual Information on Volumes of Interest	Hyoungeop Kim, Kyushu Institute of Technology
-------------	-----	-------	--	---

TP6-2-7 Total Environment for Text Data Mining 2
Chair: Mitsunori Matsushita (Kansai University)
Room 7
11:10-12:10, Dec. 6 (Sat.)

TP6-2-7-(1)	36	11:10	Proposal of Support Tools for Analyzing RDF Database Using TETDM	Yasufumi Takama, Tokyo Metropolitan University; Koichi Tashiro, Tokyo Metropolitan University
TP6-2-7-(2)	37	11:30	Research on Text Data Mining of Hospital Patient Records Within Electronic Medical Records	Muno Kushima, University of Miyazaki; kenji araki, University of Miyazaki Hospital; muneou suzuki, University of Miyazaki Hospital; tomoyoshi yamazaki, University of Miyazaki Hospital; noboru sonehara, National institute of informatics
TP6-2-7-(3)	90	11:50	Knowledge Emergence using Total Environment for Text Data Mining	Wataru Sunayama, Hiroshima City University

Poster Chair: Yukinobu Hoshino (Kochi University of Technology)
14:15-15:20, Dec. 5 (Fri.)

Poster-(1)	139	14:15	A similarity-based M(1,2,3) approach for rating the security of network systems	Junhu Ruan, Dalian University of Technolog; Yan SHI; Takashi Samatsu, Tokai University
Poster-(2)	277	14:15	Behavior-based Autonomous Cooperative Control of Intelligent Mobile Robot Systems with Embedded Petri Nets	Gen'ichi Yasuda, Nagasaki Institute of Applied Science
Poster-(3)	75	14:15	Mutual Learning Using Nonlinear Perceptron	Daisuke Saito, Nihon University; Kazuyuki Hara, Nihon University
Poster-(4)	92	14:15	Order Estimation of Japanese Paragraphs by Supervised Machine Learning	Satoshi Ito, Tottori University; Masaki Murata, Tottori University; Masato Tokuhisa, Tottori University; Qing Ma, Ryukoku University
Poster-(5)	91	14:15	Electrostatic Induction Methods for Human Walking Motion Detection	Koichi Kurita, Kinki University
Poster-(6)	95	14:15	Extraction and Categorization of Transition Information from Large Volume of Texts Using Patterns and Machine Learning	Sanako Hori, Tottori University; Masaki Murata, Tottori University; Masato Tokuhisa, Tottori University; Qing Ma, Ryukoku University

Poster-(7)	96	14:15	Construction of Concept Network from Large Numbers of Texts for Information Examination Using TF-IDF and Deletion of Unrelated Words	Yuta Doen, Tottori University; Masaki Murata, Tottori University; Ryuta Otake, Tottori University; Masato Tokuhisa, Tottori University; Qing Ma, Ryukoku University
Poster-(8)	34	14:15	The new proposal of the calculation for the significance degree by once SOM learning	Matashige Oyabu, KIT; Heizo Tokutaka, SOM Japan Inc.; Masaaki Ohkita, SOM Japan Inc.; Masaharu Seno, Okayama University; Makoto Ohki, Tottori University
Poster-(9)	16	14:15	Visualizing Regression data by Supervised Generative Topographic Mapping	Nobuhiko Yamaguchi, Saga University
Poster-(10)	103	14:15	Fuzzy Particle Swarm Optimization Applied to Neuroevolution	Hidehiko Okada, Kyoto Sangyo University
Poster-(11)	205	14:15	A Note on the Representation of the Choquet Integral Based on the Derivative of Fuzzy Measure	Shinsuke Nakamura, Tokyo Institute of Technology; Toshiaki Murofushi, Tokyo Institute of Technology
Poster-(12)	48	14:15	Fuzzy Relational Database Model Using Relational Calculus	Mohammad Akbar, Kyushu University; Yoshihiro Mizoguchi, Kyushu University
Poster-(13)	149	14:15	Fuzzy Tracking Control of Underactuated Ship	Do Wan Kim, Hanbat National University
Poster-(14)	270	14:15	Estimation of Hyperparameters in Probabilistic Slow Feature Analysis	Akihito Takeuchi, Kobe University; Toshiaki Omori, Kobe University
Poster-(15)	180	14:15	An automated observation system for elderly people using acoustic information	Kin Kin, Sojo university; Hiroyuki Nishi, Sojo university; Yoshimasa Kimura, Sojo university; Toshio Kakinoki, Sojo university
Poster-(16)	181	14:15	A study of an automatic hammering test using pattern recognition	Yuichi Nakashima, Sojo university; Hiroyuki Nishi, Sojo university; Yoshimasa Kimura, Sojo university; Toshio Kakinoki, Sojo university
Poster-(17)	121	14:15	Unsupervised Weight Parameter Estimation for Exponential Mixture Distribution based on Symmetric Kullback-Leibler Divergence	Masato Uchida, Chiba Institute of Technology
Poster-(18)	122	14:15	Tight Lower Bound of Generalization Error in Ensemble Learning	Masato Uchida, Chiba Institute of Technology
Poster-(19)	243	14:15	Simulation for Effect of Extracellular Electric Field on Neuronal Response	Takafumi Shimamoto, Kobe University; Toshiaki Omori, Kobe University; Toru Aonishi, Tokyo Institute of Technology; Seiichi Ozawa, Kobe University
Poster-(20)	397	14:15	Local Feature Selection by Visual Saliency and its Embedding to Image Representation	Yuki Shinomiya, Electronic and Photonic System Engineering Kochi University of Technology Kochi, ; Yukinobu Hoshino, Kochi University of Technology

Poster-(21)	242	14:15	Sound masking for achieving speech privacy with parametric acoustic array speaker	Takahiro Tamesue, Yamaguchi University
Poster-(22)	208	14:15	Towards Efficient Closed Pattern Mining from Distributed Multi-Relational Data	Hirohisa Seki, Nagoya Inst. Technology; Yohei Kamiya, Nagoya Inst. Technology
Poster-(23)	285	14:15	Vehicle Robot Platoon Experiment By Using Multi-Leader Vehicle Following Model	Eisuke Kita, Nagoya University
Poster-(24)	282	14:15	An Evaluation of Visual Function using Blue Contrast Sensitivity	Risa Sakurai, University of Hyogo; Tadamasu Takemura, Graduate School of Medicine; Tomohiro Kuroda, Kyoto University Hospital; Atuta Yoshida, University of Tokushima; Hiroyuki Horio, University of Hyogo; Hiroshi Tamura, Kyoto University Hospital
Poster-(25)	299	14:15	A Generalized Equilibrium Value-Based Approach for Solving Fuzzy Transportation Problems with Triangular Fuzzy Numbers	Chenxia Jin, Hebei University of Science and Technology; Yan SHI; Fachao Li
Poster-(26)	135	14:15	Can electrical stimulation of the tensor fasciae latae muscle decrease the maximum adduction force of the hip joint?	Sota Nakano, Kyushu Institute of Technology; Wataru Ikeda, Kyushu Institute of Technology; Chikamune Wada, Kyushu Institute of Technology
Poster-(27)	216	14:15	Hand Motion Recognition Using Near Infrared Proximity Sensor	Ganbayar Batchuluun; Bayanmunkh Odgerel, PaiChai University; Chang Hoon Lee, Paichai University, Daejeon, Korea
Poster-(28)	47	14:15	Selection of students for low income family program using fuzzy algorithm	Ling Ling Ung, University of Technology MARA; Zamali Tarmudi, University of Technology MARA
Poster-(29)	227	14:15	Improved Cryptographic Protocol for Digital Coin Exchange	Marek Ogiela, AGH University of Science and Technology; Piotr Sułkowski, AGH University of Science and Technology
Poster-(30)	230	14:15	Cognitive Information Systems in Secure Information Management and Personalized Cryptography	Lidia Ogiela, AGH University of Science and Technology; Marek Ogiela, AGH University of Science and Technology; Urszula Ogiela, AGH University of Science and Technology
Poster-(31)	225	14:15	The analysis of SSVEP evoked by the modulated visual stimulus in medium and high frequencies	Shoya Ueda, Chubu University; Akitoshi Itai, College of Engineering, Chubu University
TP6-1-7-(3)	77	14:15	Adding Possible Antonym Relations to Japanese Word Network for Domain Specific Sentiment Analysis	Tatsuya Senbon, Osaka Electro-Communication University; Kazuhiro Takeuchi, Osaka Electro-Communication University

(TP6-1-7-(3) is moved from TP6-1-7 to poster session.)