

2014 IEEE 7th International Workshop on Computational Intelligence and Applications

Technical Sessions (November 8, 2014) Time Table

	Room A (5F 504)	Room B (6F 602)	Room C (6F 605)
9:20 – 10:40	Computational Intelligence & Applications Part I	SS-03: Development and Application of ICT Systems to Actual Problem-Solving Part I	Innovative Mobile Technologies in Intelligent Smartphone
11:00 – 11:50	Computational Intelligence & Applications Part II	SS-03: Development and Application of ICT Systems to Actual Problem-Solving Part II	SS-01: Learning and Simulation of Intelligent Agents Part I
12:00 – 13:00	Lunch & Award Special Talk (Room A, 5F 504)		
13:20 – 15:00	Computational Intelligence Methods for Data Analysis	Human Centered Intelligent Information System	SS-01: Learning and Simulation of Intelligent Agents Part II
15:00 – 15:40	Coffee Break		
15:40 – 17:20	Interactive and Interpretive Human-Machine System	SS-04: Intelligent System and Applications	SS-02: Evolution of Tree/Graph-structural Programs
17:20	Closing		

Each paper presentations lasts for 20 minutes, followed by 5 minute discussion (a total of 25 minutes).

Technical Program: Room A (5F 504)

Time	Session: Computational Intelligence & Applications Part I (Chair: Dr. Jun-ichi Kushida)
09:20-09:45	Structural Optimization of Neural Networks and Training Data Selection Method for Prediction <i>Tomohiro Hayashida, Ichiro Nishizaki, Shinya Sekizaki and Masanori Nishida</i>
09:45-10:10	Genetic Algorithm-Based Terminal Complex Sliding Manifold Controller for UPS Inverter Applications <i>En-Chih Chang, Yow-Chyi Liu and Kuo-Yuan Liao</i>
10:10-10:35	Investigating and forecasting business performance: Based on intellectual capital perspective <i>Chiu-Ping Wang</i>

Break

Time	Session: Computational Intelligence & Applications Part II (Chair: Dr. Tomohiro Hayashida)
11:00-11:25	Feature Transformation Using Filter Array for Automatic Construction of Image Classification <i>Yuichi Hirano and Tomoharu Nagao</i>
11:25-11:50	Noncooperative Two-level Nonlinear Programming through Strategic Oscillation Based on PSO and Clustering <i>Hiromu Imaji, Hideki Katagiri and Kosuke Kato</i>

Lunch & Award Special Talk (12:00-13:00, 5F 504)

Time	Session: Computational Intelligence Methods for Data Analysis (Chair: Prof. Keiichi Niwa)
13:20-13:45	Statistical Analysis of the Influence of Capital Structure on Stock Price <i>Tatsuya Kawai and Hiroshi Tsuda</i>
13:45-14:10	Parallel Processing for Distance-Based Outlier Detection on a Multi-core CPU <i>Junki Oku, Keiichi Tamura and Hajime Kitakami</i>

14:10-14:35	A gene ontology-based microarray gene expression data analysis for diagnosing pseudomyxoma peritonei <i>Hideki Katagiri, Takeshi Uno, Kosuke Kato, Hiroyuki Kuwano, Kohei Sasaki, Yutaka Yonemura and Yoshio Endo</i>
14:35-15:00	Random Forest And Gene Ontology for Functional Analysis of Microarray Data <i>Tham Wen Shi, Kohbalan Moorthy, Mohd Saberi Mohamad, Safaai Deris, Sigeru Omatu and Michifumi Yoshioka</i>

Coffee Break

Time	Session: Interactive and Interpretive Human-Machine System (Chair: Dr. Toshiyuki Yasuda)
15:40-16:05	Interactive nonlinear optimization-based method for correcting the pin probe position in printed circuit board electrical inspections <i>Hideki Katagiri, Masashi Morisawa, Hongwei Wu, Hiroshi Hamori and Kosuke Kato</i>
16:05-16:30	Iterative optimization techniques based on man-machine interaction for timetabling problems <i>Shunsuke Shimazaki, Kazutoshi Sakakibara and Takuya Matsumoto</i>
16:30-16:55	Proposal of Interactive Document Clustering System based on Coordinated Multiple Views <i>Takuma Tonegawa and Yasufumi Takama</i>
16:55-17:20	Complete Contours Formation via Alignment Interpretation of Illusory Edges <i>Ko-Ching Liang, Chun-Shun Tseng, Jung-Hua Wang and Hsuan-Wei Huang</i>

Closing

Technical Program: Room B (6F 602)

Time	Session: SS-03: Development and Application of ICT Systems to Actual Problem-Solving Part I (Chair: Prof. Shimpei Matsumoto)
09:20-09:45	A Study on Constructing User Adaptive Learning Environment to Realize Sustainable Self-Study <i>Taiki Kurisu, Shimpei Matsumoto, Tomoko Kashima and Masanori Akiyoshi</i>
09:45-10:10	Stable Learning for Neural Network Tomography by using Back Projection Type Image <i>Masaru Teranishi</i>
10:10-10:35	A Study on Sightseeing Promotion with ICT from the Viewpoint of Sustainability <i>Yuki Fudo, Shimpei Matsumoto, Tomoko Kashima and Masanori Akiyoshi</i>

Break

Time	Session: SS-03: Development and Application of ICT Systems to Actual Problem-Solving Part II (Chair: Prof. Shimpei Matsumoto)
11:00-11:25	A Method to Quantify Twitter User's Posting Activities for Constructing Disaster Information Support System <i>Hiroki Kawaguchi, Shimpei Matsumoto and Fujio Toriumi</i>
11:25-11:50	Feasibility Study on ECG Data Transmission Over Voice for Patient Telemonitoring System <i>Hendra Setiawan, Alvin Sahroni and Erlina Marfianti</i>

Lunch & Award Special Talk (12:00-13:00, 5F 504)

Time	Session: Human Centered Intelligent Information System (Chair: Dr. Tetsuya Shigeyasu)
13:20-13:45	A Study on Effective Algorithm for Selecting PVA Nodes in VANETs <i>Tetsuya Shigeyasu and Aiko Hashimoto</i>
13:45-14:10	An Adaptive Learning Method of Personality Trait Based Mood in Mental State Transition Network by Recurrent Neural Network <i>Takumi Ichimura, Kosuke Tanabe and Toshiyuki Yamashita</i>

14:10-14:35	Uncertain Network Reasoning for Agents via Gaussian Radial Basis Functions <i>Ray-Ming Chen</i>
14:35-15:00	Performance of Blind Source Separation (BSS) Techniques for Mixed Source Signals of EEG, ECG, and Voice Signal <i>Alvin Sahroni, Hendra Setiawan and Erlina Marfianti</i>

Coffee Break

Time	Session: SS-04: Intelligent System and Applications (Chair: Prof. Takumi Ichimura)
15:40-16:05	Classification of Patient's Reaction in Language Assesment during Awake Craniotomy <i>Toshihiko Nishimura, Tomoharu Nagao, Hiroshi Iseki, Yoshihiro Muragaki, Manabu Tamura and Shinji Minami</i>
16:05-16:30	Engine fault diagnosis based on the weighted DS evidence theory <i>Zhuting Yao and Hongxia Pan</i>
16:30-16:55	Identifying Burstiness of Local Topic using Location-based Burst Detection with a Classifier Technique <i>Shota Kotozaki, Keiichi Tamura and Hajime Kitakami</i>
16:55-17:20	Sightseeing Route Planning Problem by Electric Vehicle on the Time-Expanded Network <i>Takashi Hasuike, Hideki Katagiri, Hiroe Tsubaki and Hiroshi Tsuda</i>

Closing

Technical Program: Room C (6F 605)

Time	Session: Innovative Mobile Technologies in Intelligent Smartphone (Chair: Prof. Keiichi Tamura)
09:20-09:45	Proposal of Tangible User Interface for Information Curation using NFC and Smartphone <i>Tomohiro Ito and Yasufumi Takama</i>
09:45-10:10	Affective Recommendation System for Tourists by Using Emotion Generating Calculations <i>Takumi Ichimura and Issei Tachibana</i>
10:10-10:35	Identifying Bursty Areas of Emergency Topics in Geotagged Tweets using Density-based Spatiotemporal Clustering Algorithm <i>Tatsuhiko Sakai and Keiichi Tamura</i>

Break

Time	Session: SS-01: Learning and Simulation of Intelligent Agents Part I (Chair: Prof. Akira Hara)
11:00-11:25	Response Threshold-Based Task Allocation in a Reinforcement Learning Robotic Swarm <i>Toshiyuki Yasuda, Koki Kage and Kazuhiro Ohkura</i>
11:25-11:50	Multi Modular Robots Maneuver for Geometry Formation Control <i>Rattapol Phanichnitinon, Tanakrit Hemwarangkoon, Jumpol Polvichai, Thanatthep Boonpromma and Kasin Jarutekumporn</i>

Lunch & Award Special Talk (12:00-13:00, 5F 504)

Time	Session: SS-01: Learning and Simulation of Intelligent Agents Part II (Chair: Prof. Akira Hara)
13:20-13:45	Multi-Agent Reinforcement Learning System to Find Efficient Courses for Ships <i>Masahiro Nakayama, Takeshi Kamio, Kunihiro Mitsubori, Takahiro Tanaka and Hisato Fujisaka</i>
13:45-14:10	Agent-based Simulation Analysis for Networks Formation Using PSO <i>Shunsuke Koto, Tomohiro Hayashida, Ichiro Nishizaki and Shinya Sekizaki</i>

14:10-14:35	Design of Optimal PD Control Gains for a TORA: Dominant Pole Assignment <i>Kaoru Sumida, Xin Xin and Taiga Yamasaki</i>
14:35-15:00	Solving Simple Target Shipping Tasks by a Cooperative Robot Team <i>Tanakrit Hemwarangkoon, Rattasapa Meeprapai, Cattleya Kanchanapiboon and Jumpol Polvichai</i>

Coffee Break

Time	Session: SS-02: Evolution of Tree/Graph-structural Programs (Chair: Prof. Tetsuhiro Miyahara)
15:40-16:05	Bio-inspired Heuristic for Optimizing Protein Structure Alignment using Distributed Modified Extremal Optimization <i>Keiichi Tamura, Hajime Kitakami and Yoshifumi Takahashi</i>
16:05-16:30	A Novel Tree Differential Evolution using Inter-symbol Distance <i>Jun-ichi Kushida, Akira Hara and Tetsuyuki Takahama</i>
16:30-16:55	Acquisition of Characteristic Sets of Tree Patterns with VLDC's Using Genetic Programming and Edit Distance <i>Shohei Nakai, Tetsuhiro Miyahara, Yusuke Suzuki, Tetsuji Kuboyama and Tomoyuki Uchida</i>
16:55-17:20	Cartesian Ant Programming with Adaptive Node Replacements <i>Akira Hara, Jun-ichi Kushida, Keita Fukuhara and Tetsuyuki Takahama</i>

Closing