

Sunday

May 24 Sunday, 2015 at 2F Lobby

1600-1800 Registration with Furumai-zake (Free Japanese Sake) at Conference Building 2F in Sendai International Center

Monday

May 25 Monday, 2015 at Small Conference Room 1 (on the first floor)

Mo1-1F1 Tutorial 0800-0945	Mo2-1F1 Tutorial 1000-1145	Mo3-1F1 Tutorial 1300-1445	Mo4-1F1 Tutorial 1455-1640
Evolutionary Algorithms as a Dynamical Complex System Ivan Zelinka	Differential Evolution: Population Topologies and Ensemble Strategies P. N. Suganthan	Evolutionary Computation for Dynamic Optimization Problems Shengxiang Yang	Convergence Detection and Stopping Criteria for Evolutionary Multi-Objective Optimization Luis Marti and Nayat Sanchez-Pi

May 25 Monday, 2015 at Small Conference Room 2 (on the first floor)

Mo1-1F2 Tutorial 0800-0945	Mo2-1F2 Tutorial 1000-1145	Mo3-1F2 Tutorial 1300-1445	Mo4-1F2 Tutorial 1455-1640
Decomposition and Cooperative Coevolution Techniques for Large Scale Global Optimization Xiaodong Li	Evolutionary Computation and Games Julian Togelius	Runtime Analysis of Population-based Evolutionary Algorithms Per Kristian Lehre	Evolutionary Multitasking and Implications for Cloud Computing Abhishek Gupta, Yew-Soon Ong and Kay Chen Tan

May 25 Monday, 2015 at Small Conference Room 4 (on the second floor)

Mo1-2F4 Tutorial 0800-0945	Mo2-2F4 Tutorial 1000-1145	Mo3-2F4 Tutorial 1300-1445	Mo4-2F4 Tutorial 1455-1640
Multi-Armed Bandits for Evolutionary Algorithms Madalina M. Drugan	Semi-Automated Algorithm Design with Genetic Programming Jerry Swan and John R. Woodward	An Introduction to Bioinformatics for EC Researchers Wendy Ashlock	Cultural Algorithms: Putting Social Networks to Work Robert G. Reynolds

May 25 Monday, 2015 at Small Conference Room 5 (on the second floor)

Mo1-2F5 Tutorial 0800-0945	Mo2-2F5 Tutorial 1000-1145	Mo3-2F5 Tutorial 1300-1445	Mo4-2F5 Tutorial 1455-1640
Medical Applications of Evolutionary Computation Stephen L. Smith	Evolutionary Bilevel Optimization Ankur Sinha and Kalyanmoy Deb	Threshold Convergence in PSO, DE, and other Search Methods Stephen Chen and James Montgomery	Deploying Evolutionary Computation in Industry: Challenges and Lessons Learned Bogdan Filipic

May 25 Monday, 2015 at Medium Conference Room Shirakashi (on the third floor)

Mo1-3FS Tutorial 0800-0945	Mo2-3FS Tutorial 1000-1145	Mo3-3FS Tutorial 1300-1445	Mo4-3FS Tutorial 1455-1640
An Overview of Evolutionary Algorithms and Hyper Heuristics Nelishia Pillay	A Survey of Representations for Evolutionary Computation Daniel Ashlock	Data-driven Evolutionary Algorithms Ke Tang and Kai Qin	Statistical Tests for Computational Intelligence Hideyuki Takagi

May 25 Monday, 2015 at Small Conference Room 7 (on the third floor)	
Mo1-3F7 Workshop 0840-0945	Workshop on Swarm Intelligence 1
Chaired by: JUNICHI KUSHIDA	
0840 hrs Special Invited Talk	
From a Problem Solving Skill to an Optimization Algorithm	
YUHUI SHI	

May 25 Monday, 2015 at Small Conference Room 7 (on the third floor)	
Mo2-3F7 Workshop 1000-1145	Workshop on Swarm Intelligence 2
Chaired by: JUNICHI KUSHIDA	
1000 hrs	1020 hrs
A Hardware Implementation of Neural Network Trained by Particle Swarm Optimization with a Control of Velocity DANG TUAN LINH, and Yukinobu Hoshino	The Switched Ring Particle Swarm Optimizer and Its Application to Search of Maximum Power Point Naoto Ando, KOSUKE TANAKAJIMA and Toshimichi Saito
	1040 hrs
	Collaborative Particle Swarm Optimization on Massively Parallel Processing Units YASUYUKI MIYAZATO, Takeshi Tengan, and Morikazu Nakamura
1100 hrs	1120 hrs
Centripetal Accelerated Particle Swarm Optimization for Generating SNP Barcode in Breast Cancer Rong Jeng, Li-Yeh Chuang, Cheng-Han Wu, and CHENG-HONG YANG	High exploration particle swarm optimization for Clustering Problems Li-Yeh Chuang, Yu-shiun Lin, Yi-Kai Kao, Yu-Da Lin, and CHENG-HONG YANG

May 25 Monday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)				
1300-1445		Workshop on New Directions of Evolutionary Computation and Intelligent Systems 1 (Poster Session)		
Chaired by: HISASHI HANDA				
Dictionary Learning for Discovering Visual Elements of Fashion Styles JU-CHIN CHEN, Bai-Fen Xue, and Kawuu W. Lin	On Mutual Relations Amongst Evolutionary Algorithm Dynamics, its Hidden Complex Network Structures and Control IVAN ZELINKA	Ant Colony Optimization for Small-World Network and Traveling Salesman Problem HIDEFUMI SAWAI	Artificial Metamorphosis as a Way to Automatically Design Self-reconfiguring Robots MICHAL JOACHIMCZAK, Reiji Suzuki, and Takaya Arita	Planning of Space Station On-orbit Activities using Ontology Modeling and Time Iteration JIN ZHANG, and Zi-cheng Jiang
Effects of Topological Variations on Opinion Dynamics Optimizer RISHEMJIT KAUR, Ritesh Kumar, Amol P Bhondekar, Reiji Suzuki, Takaya Arita	The Evolution of Day Trading Strategy by means of Genetic Programming with Support Vector Machine HIDEYUKI MIURA, Naoki Mori, and Keinosuke Matsumoto	A Method Based on Interactive Evolutionary Computation for Increasing the Effectiveness of Advertisement Texts QUETZALI MADERA, Oscar Castillo, Mario Garcia-Valdez, and Alejandra Mancilla		

May 25 Monday, 2015 at Small Conference Room 7 (on the third floor)	
Mo3-3F7 Workshop 1300-1445	Workshop on Evolutionary Multi-Objective Optimization 1
Chaired by: SHINYA WATANABE	
1300 hrs Special InvitedTalk	
Evolutionary Many-Objective Optimization: Difficulties and Approaches	
HISAO ISHIBUCHI, and HIROYUKI SATO	
1400 hrs	1420 hrs
An Evolutionary Many-Objective Optimization Algorithm Based on Intergenerational Differences HIDEHIRO NAKANO, Ryunosuke Hayashi and Arata Miyauchi	A Control Method for Air Conditioning using Evolutionary Multi-Objective Optimization YOSHIHIRO OHTA

May 25 Monday, 2015 at Small Conference Room 7 (on the third floor)		
Mo4-3F7 Workshop 1455-1640	Workshop on Evolutionary Multi-Objective Optimization 2	
Chaired by: HIROYUKI SATO		
1455 hrs A New Efficient EMO Algorithm based on Two Conflicting Mechanisms: Local Convergence and Escaping Local Optima HIBIKI SAMONJI, and Shinya Watanabe	1515 hrs A Specialized Approach based on Integration of Customers and Deliberate Restoration Mechanisms for Large Scale Vehicle Routing Problem MASASHI ITO, and Shinya Watanabe	1535 hrs A Study on Search to User's Preference Direction in Multi-objective Optimization Problems TOSHIHIRO KISHIGAMI, and Tomohiro Yoshikawa
1555 hrs Multi-Objective Optimization and Decision-Making of Space Station Logistics Strategies YA-ZHONG LUO, and Yue-he Zhu, and Jin Zhang	1615 hrs Co-Evolutionary Algorithm for Multi-Objective Games with Postponed Objective Preferences Erella Eisenstadt-Matalon, AMIRAM MOSHAIOV, and Gideon Avigad	

May 25 Monday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)				
1455-1640	Workshop on New Directions of Evolutionary Computation and Intelligent Systems 2 (Poster Session)			
Chaired by: HISASHI HANDA				
Use of an Achievement Scalarizing Function in MOEA/D KEN DOI, Yusuke Nojima, and Hisao Ishibuchi	Graph-Based Estimation of Distribution Algorithms with Kernel Density Estimation KENTA MAEZAWA, and Hisashi Handa	An Efficient Interactive Evolutionary Computation with Partial Solution Evaluation: A Case Study on Menu Planning Problem REI MATSUMOTO, Hiroshi Someya, Tomoko Kashima, and Yukiko Orto	A Study on Multipath Design Method Considering Traffic Load Balance based on Genetic Algorithm MOTOHIRO KANZA, Yosuke Tanigawa, and Hideki Tode	Program Refactoring by using Abstract Syntax Trees TAKENORI MATSUO, and Hisashi Handa
Constitution of Mahjong Players by Using Evolutionary Algorithms NAOKI HANATANI, and Hisashi Handa	Transposable Mutation Methods in Artificial Life System MOTOKI TANO, and Hiroshi Someya	Evaluating a Narrative Discourse Generation System Based on Automatic Analyses of a Series of Discourse Structures TAISUKE AKIMOTO, and Takashi Ogata	Differential Evolution on Scattered Parents with Resetting Parameters and Restarting Optimization when Optimization Stagnate RYO IWAI, and Shohei Kato	

May 26 Monday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)	
1700-1825	Competition Summary
Organized by: Competition Organizers	

May 25 Monday, 2015 at Small Conference Room 7 (on the third floor)		
Mo5-3F7 Workshop 1700-1800	Workshop on Evolutionary Multi-Objective Optimization 3	
Chaired by: HISASHI HANDA		
1700 hrs An Efficient Parallel MOEA/D Generating Solutions in Less-Overlapped Update Areas of Solutions HIROYUKI SATO	1720 hrs A Study on Gradual Enhancement of the Approximation Granularity of Pareto Front in Evolutionary Many-Objective Optimization TOMOHISA HASHIMOTO, Hiroyuki Sato, and Minami Miyakawa	1740 hrs Challenges in Computational Sustainability: a New Multi-Objective Artificial Immune System Approach to Deal with Biodiversity Conservation SHANA SCHLOTTFELDT, Andre P. L. F. de Carvalho, Mariana P. C. Telles, and Jose Alexandre F. Diniz-Filho

Tuesday

May 26 Tuesday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)

Plenary I 0800-0915

Opening Keynote

Chaired by: TADAHIKO MURATA

Multi-Objective Particle Swarm Optimizers: Past, Present and Future

Professor Carlos Artemio Coello Coello (CINVESTAV-IPN, Mexico)

May 26 Tuesday, 2015 at Small Conference Room 1 (on the first floor)

Tu1-1F1 0930-1030

Genetic Algorithms 1

Chaired by: OLIVIU MATEI

0930 hrs
15157

An Improved GA for Identifying Susceptibility Genes in the Presence of Epistasis

Jyh-Feng Yang, YU-DA LIN, Li-Yeh Chuang and Cheng-Hong Yang

0950 hrs
15116

Advanced Genetic Operators in the Context of Evolutionary Ontology

OLIVIU MATEI and Diana Contrás

1010 hrs
15101

Monogamous Pair Bonding in Genetic Algorithm

TING YEE LIM, Mohammed Azmi Al-Betar and Ahamad Tajudin Khader

May 26 Tuesday, 2015 at Small Conference Room 2 (on the first floor)

Tu1-1F2 0930-1030

Particle Swarm Optimization 1

Chaired by: YANGMIN LI

0930 hrs
15041

Cooperative Particle Swarm Optimizer with Improved Elimination Mechanism for Global Optimization

Geng Zhang and YANGMIN LI

0950 hrs
15060

Saturation in PSO Neural Network Training: Good or Evil?

ANNA RAKITIANSKAIA and Andries Engelbrecht

1010 hrs
15162

Swarm Intelligence to Coordinate Decentralized Learning Automata in Identical Payoff Games

Jie Li, JunQi Zhang, LINWEI XU and ChangJun Jiang

May 26 Tuesday, 2015 at Small Conference Room 3 (on the first floor)

Tu1-1F3 0930-1030

Intelligent Systems Applications 1

Chaired by: THOMAS BÄCK

0930 hrs
15363

Optimizing Highly Constrained Truck Loadings Using a Self-Adaptive Genetic Algorithm

SANDER VAN RIJN, Edgar Reehuis and Thomas Bäck

0950 hrs
15379

User-Derived Mutation in Highly Constrained Truck Loading Optimization

JOOST LEUVEN, Edgar Reehuis and Thomas Bäck

1010 hrs
15281

Multi-Objective Differential Evolution Algorithm for Underwater Image Restoration

CAMILO SANCHEZ FERREIRA, Helon Ayala, Leandro dos S. Coelho, Daniel Munoz, Mylene Farias and Carlos Llanos

May 26 Tuesday, 2015 at Small Conference Room 4 (on the second floor)

Tu1-2F4 0930-1030

Differential Evolution 1

Chaired by: JUN-ICHI KUSHIDA

0930 hrs
15042

Differential Evolution for Strongly Noisy Optimization: Use 1.01^n Resamplings at Iteration n and Reach the $-1/2$ Slope

Shih-Yuan Chiu, Ching-Nung Lin, JIALIN LIU, Tsan-Cheng Su, Fabian Teytaud, Olivier Teytaud and Shi-Jim Yen

0950 hrs
15226

A Differential Evolution Algorithm for Resource Investment Problems with Tardiness

Meining Liu, JING LIU and Martin O.Wimmers

1010 hrs
15229

Rank-Based Differential Evolution with Multiple Mutation Strategies for Large Scale Global Optimization

JUN-ICHI KUSHIDA, Akira Hara and Tetsuyuki Takahama

May 26 Tuesday, 2015 at Small Conference Room 5 (on the second floor)		
Tu1-2F5 0930-1030	SS05: Bat Algorithm and Cuckoo Search 1	
Chaired by: XIN-SHE YANG		
0930 hrs 15084 Fuzzy dynamic parameter adaptation in the Cuckoo Search Algorithm via Levy flights for optimizing benchmark mathematical functions Maribel Guerrero, OSCAR CASTILLO and Mario Garcia	0950 hrs 15085 Cuckoo Search Algorithm for the Optimization of Type-2 Fuzzy Image Edge Detection Systems Claudia Gonzalez, Juan Castro, PATRICIA MELIN and Oscar Castillo	1010 hrs 15189 A Modified Cuckoo Search Algorithm for Flow Shop Scheduling Problem with Blocking Hui WANG, Wenjun Wang, Hui Sun, Changhe Li, Shahryar Rahnamayan and Yong Liu
May 26 Tuesday, 2015 at Small Conference Room 6 (on the third floor)		
Tu1-3F6 0930-1030	SS47: Evolutionary Computation in Cognitive Robotics 1	
Chaired by: CHU KIONG LOO AND NAOYUKI KUBOTA		
0930 hrs 15286 The Proposal for Real-time Sequential-decision for Optimal Action using Flexible-weight Coefficient based on the State-Action Pair MASASHI SUGIMOTO and Kentarou Kurashige	0950 hrs 15673 Robot Posture Generation based on Genetic Algorithm for Imitation TAKENORI OBO, Chu Kiong Loo and Naoyuki Kubota	1010 hrs 15684 Evolving Spiking Neural Network for Robot Locomotion Generation Liqiang Hou, Anum Pirzada, Noriko Takase, Janos Botzheim and NAOYUKI KUBOTA
May 26 Tuesday, 2015 at Small Conference Room 7 (on the third floor)		
Tu1-3F7 0930-1030	Classification, Clustering, Data Analysis and Data Mining 1	
Chaired by: DAVID CAMACHO		
0930 hrs 15418 GANY: A Genetic Spectral-based Clustering Algorithm for Large Data Analysis Hector Menendez and DAVID CAMACHO	0950 hrs 15216 Deep Community Detection based on Memetic Algorithm SHANFENG WANG, Maoguo Gong, Bo Shen, Zhao Wang, Qing Cai and Licheng Jiao	1010 hrs 15381 How to Use Ants for Data Stream Clustering NESRINE MASMOUDI, Hanane Azzag, Mustapha Lebbah, Cyrille Bertelle and Maher Ben Jemaa
May 26 Tuesday, 2015 at Small Conference Room 8 (on the third floor)		
Tu1-3F8 0930-1030	Heuristics, Metaheuristics and Hyper-heuristics 1	
Chaired by: HAN HUANG		
0930 hrs 15095 An Hybrid Evolutionary Algorithm with Scout Bee Global Search Strategy for Chinese Nurse Rostering Problems Xiaoyan Zhuo, HAN HUANG, Zhaoquan Cai and Hui Hu	0950 hrs 15113 Leaders and Followers - A New Metaheuristic to Avoid the Bias of Accumulated Information Yasser Gonzalez-Fernandez and STEPHEN CHEN	1010 hrs 15137 A Benchmark Set Extension and Comparative Study for the HyFlex Framework STEVEN ADRIAENSEN, Gabriela Ochoa and Ann Nowe
May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
Tu1-3F9 0930-1030	Multi-Objective Evolutionary Algorithms 1	
Chaired by: KALYANMOY DEB		
0930 hrs 15021 Performance of a Steady State Quantum Genetic Algorithm for Multi/Many-objective Engineering Optimization Problems Md Asafuddoula, Tapabrata Ray, Amitay Isaacs and HEMANT SINGH	0950 hrs 15662 Multi-Scenario, Multi-Objective Optimization Using Evolutionary Algorithms: Initial Results KALYANMOY DEB, Ling Zhu and Sandeep Kulkarni	1010 hrs 15050 An Improved Performance Metric for Multiobjective Evolutionary Algorithms with User Preferences GUO YU, HuaZheng Jin and Xiaodong Li

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Tu1-3F10 0930-1030	SS04: Bound Constrained Single Objective Numerical Optimization Competition 1	
Chaired by: P. N. SUGANTHAN AND JOSE RUEDA		
0930 hrs 15031 A Self-Optimization Approach for L-SHADE Incorporated with Eigenvector-Based Crossover and Successful-Parent-Selecting Framework on CEC 2015 Benchmark Set Shu-Mei Guo, CHIN-CHANG YANG, Jason Sheng-Hong Tsai and Pang-Han Hsu	0950 hrs 15035 MVMO for Bound Constrained Single-Objective Computationally Expensive Numerical Optimization JOSE RUEDA and Istvan Erlich	1010 hrs 15096 Tuning Maturity Model of Ecogeography-Based Optimization On CEC 2015 Single-Objective Optimization Test Problems YU-JUN ZHENG and Xiao-Bei Wu

May 26 Tuesday, 2015 at Small Conference Room 1 (on the first floor)		
Tu2-1F1 1050-1150	Genetic Algorithms 2	
Chaired by: JING LIU		
1050 hrs 15305 A Multi-agent Genetic Algorithm with Variable Neighborhood Search for Resource Investment Project Scheduling Problems Xiaoxiao Yuan, JING LIU and Martin Wimmers	1110 hrs 15311 Efficiency of Adaptive Genetic Algorithm with Mutation Matrix in the Solution of the Knapsack Problem of Increasing Complexity QING JIE LI and Kwok Yip Szeto	1130 hrs 15377 Comparative Analysis of Genetic Based Approach and Apriori Algorithm for Mining Maximal Frequent Item Sets MIR MD. JAHANGIR KABIR, Shuxiang Xu, Byeong Ho Kang and Zongyuan Zhao

May 26 Tuesday, 2015 at Small Conference Room 2 (on the first floor)		
Tu2-1F2 1050-1150	Particle Swarm Optimization 2	
Chaired by: LIU JUN		
1050 hrs 15163 A Learning Automata-based Particle Swarm Optimization Algorithm JunQi Zhang, LINWEI XU, Ji Ma and MengChu Zhou	1110 hrs 15164 Interpersonal Learning Particle Swarm Optimizer Ji Ma, Junqi Zhang and LINWEI XU	1130 hrs 15334 Optimal Cloud Storage Problem in the Distributed Cloud Data Centers by the Discrete PSO Algorithm LIU JUN, Shi Tianyun and Li Ping

May 26 Tuesday, 2015 at Small Conference Room 3 (on the first floor)		
Tu2-1F3 1050-1150	Intelligent Systems Applications 2	
Chaired by: THOMAS BÄECK		
1050 hrs 15028 Fuzzy Markup Language with Genetic Learning Mechanism for Invention Patent Quality Evaluation Mei-Hui Wang, Yung-Chang Hsiao, Bing-Heng Tsai, Lee Chang-Shing and LIFN TING-TZU	1110 hrs 15124 Ant Colony Optimization Applied to the Problem of Choosing the Best Combination among M Combinations of Shortest Paths in Transparent Optical Networks Italo Brasileiro, Iallen Santos, Andre Soares, Ricardo Rabelo and FELIPE MAZULLO	1130 hrs 15406 Optimal placement and sizing of Static Var Compensator using Cuckoo search algorithm PHUCKHAI NGUYEN, Goro Fujita and Ngoc Dieu Vo

May 26 Tuesday, 2015 at Small Conference Room 4 (on the second floor)		
Tu2-2F4 1050-1130	Differential Evolution 2	
Chaired by: RAWAA DAWOUD AL-DABBAGH		
1050 hrs 15091 Differential Evolution with Adaptive Repository of Strategies and Parameter Control Schemes RAWAA DAWOUD AL-DABBAGH	1110 hrs 15093 An Improved Differential Evolution for Rule Extraction and Its application in Recognizing Oil Reservoir YANAN LI, Yijing Li and Haixiang Guo	

May 26 Tuesday, 2015 at Small Conference Room 5 (on the second floor)			
Tu2-2F5 1050-1150		SS05: Bat Algorithm and Cuckoo Search 2	
Chaired by: XIN-SHE YANG			
1050 hrs 15117 Modification of the Bat Algorithm using fuzzy logic for dynamic parameter adaptation Jonathan Perez, Fevrier Valdez and OSCAR CASTILLO	1110 hrs 15186 WSN's Energy-Aware Coverage Preserving Optimization Model based on Multi-Objective Bat Swarm Optimization Algorithm MARWA SHARAWI, Eid Emary, Imane Aly Saroit and Hesham El-Mahdy	1130 hrs 15109 A Multi-Swarm Bat Algorithm for Global Optimization WANG GAI-GE and Chang Bao	

May 26 Tuesday, 2015 at Small Conference Room 6 (on the third floor)			
Tu2-3F6 1050-1150		SS47: Evolutionary Computation in Cognitive Robotics 2	
Chaired by: CHU KIONG LOO AND NAOYUKI KUBOTA			
1050 hrs 15595 Distributed Particle Swarm Optimization using Optimal Computing Budget Allocation for Multi-Robot Learning EZEQUIEL DI MARIO, Inaki Navarro and Alcherio Martinoli	1110 hrs 15586 Efficiency Energy on Humanoid Robot Walking using Evolutionary Algorithm Azhar Aulia Saputra and NAOYUKI KUBOTA	1130 hrs 15647 Generic Cognitive Computing for Cognition OZER CIFTCIOGLU and Michael S. Bittermann	

May 26 Tuesday, 2015 at Small Conference Room 7 (on the third floor)			
Tu2-3F7 1050-1210		Classification, Clustering, Data Analysis and Data Mining 2	
Chaired by: HAIBO HE			
1050 hrs 15633 KernelADASYN: Kernel Based Adaptive Synthetic Data Generation for Imbalanced Learning Bo Tang and HAIBO HE	1110 hrs 15099 Feature Subset Selection Using Dynamic Mixed Strategy Hongbin Dong, XUYANG TENG and Jun He	1130 hrs 15423 Imbalanced Classification using Genetically Optimized Cost Sensitive Classifiers TODD PERRY, Mohamed Bader-El-Den and Steven Cooper	1150 hrs 15654 Prediction of Acute Hypotensive Episodes Using Random Forest Based on Genetic Programming Zhun Fan, YOUXIANG ZUO, Dazhi Jiang and Xinye Cai

May 26 Tuesday, 2015 at Small Conference Room 8 (on the third floor)			
Tu2-3F8 1050-1210		Heuristics, Metaheuristics and Hyper-heuristics 2	
Chaired by: MASAHIRO KANAZAKI			
1050 hrs 15152 Metaheuristic Optimization Algorithms for Approximate Solutions to Ordinary Differential Equations ALI.SADOLLAH, Younghwan Choi and Joong Hoon Kim	1110 hrs 15296 Optimising the Deployment of Fibre Optics using Guided Local Search SAM CRAMER and Michael Kampouridis	1130 hrs 15393 A Simplified Water Wave Optimization Algorithm Yu-Jun Zheng and BEI ZHANG	1150 hrs 15024 An Ant Colony Optimization-based Hyper-Heuristic with Genetic Programming Approach for a Hybrid Flow Shop Scheduling Problem LIN CHEN, Dan Zheng and Dongni Li

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)			
Tu2-3F9 1050-1130		Multi-Objective Evolutionary Algorithms 2	
Chaired by: SINYA WATANABE			
1050 hrs 15131 EVEBO: A New Election Inspired Optimization Algorithm MOZAFFAR POURGHANBAR, Manoochehr Kelarestaghi and Farshad Eshghi	1110 hrs 15155 Multi-Objective Optimization of Auto-Tap-Changer Pole transformer considering Optimum Placement in Distribution System SHIGENOBU RYUTO and Palmer Michae		

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Tu2-3F10 1050-1150	SS04: Bound Constrained Single Objective Numerical Optimization Competition 2	
Chaired by: P. N. SUGANTHAN, ISTVAN ERICH, AND SABER ELSAYED		
1050 hrs 15170 Testing MVMO on Learning-based Real-Parameter Single Objective Benchmark Optimization Problems JOSE RUEDA and ISTVAN ERLICH	1110 hrs 15230 Neurodynamic Evolutionary Algorithm and Solving CEC2015 Competition Problems Karam Sallam, Ruhul Sarker, Daryl Essam and SABER ELSAYED	1130 hrs 15287 An Improved Covariance Matrix Learning and Searching Preference Algorithm for Solving CEC 2015 Benchmark Problems Lei Chen, HAI-LIN LIU, Chaoda Peng and Shengli Xie

May 26 Tuesday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)		
Plenary II 1300-1400	Keynote	
Chaired by: KALYANMOY DEB		
Optimization in Industry: From Statistics to Evolutionary Methods in Design and Management Applications Dr. Sergio Butkewitsch Choze (General Electric Global Research Center, USA)		

May 26 Tuesday, 2015 at Small Conference Room 1 (on the first floor)		
Tu3-1F1 1415-1515	Genetic Algorithms 3	
Chaired by: ANURAGANAND SHARMA AND MARCIO BASGALUPP		
1415 hrs 15384 Analysis of Evolutionary Operators for ICHEA in Solving Constraint Optimization ANURAGANAND SHARMA	1435 hrs 15405 Evolving Balanced Decision Trees with a Multi-Population Genetic Algorithm Vili Podgorelec, Saso Karakatic, Rodrigo Barros and MARCIO BASGALUPP	1455 hrs 15425 An Exploratory Path Planning Method based on Genetic Algorithm for Autonomous Mobile Robots VALERIA SANTOS, Claudio Toledo and Fernando Osorio

May 26 Tuesday, 2015 at Small Conference Room 2 (on the first floor)		
Tu3-1F2 1415-1515	Particle Swarm Optimization 3	
Chaired by: TBA		
1415 hrs 15169 Fully Informed Particle Swarm Optimizer: Convergence Analysis CHRISTOPHER CLEGHORN and Andries Engelbrecht	1435 hrs 15213 A Novel Community Detection Method Based on Discrete Particle Swarm Optimization Algorithms in Complex Networks Cen Cao, QINGJIAN NI and Yuqing Zhai	1455 hrs 15597 SwarmViz: An Open-Source Visualization Tool for Particle Swarm Optimization Guillaume Jornod, EZEQUIEL DI MARIO, Inaki Navarro and Alcherio Martinoli

May 26 Tuesday, 2015 at Small Conference Room 3 (on the first floor)		
Tu3-1F3 1415-1515	SS39: Evolutionary Computation for Smart Grid Operation and Planning 1	
Chaired by: HIROYUKI MORI, YOSHIKAZU FUKUYAMA, HONG-TZER YANG, AND MEN-SHEN TSAI		
1415 hrs 15053 Improved PSO Based Home Energy Management Systems Integrated with Demand Response in a Smart Grid HONG-TZER YANG, Szu-Yao Chen, Chiao-Tung Yang, Chia-Chun Tsai and Guan-Jih Chen	1435 hrs 15199 Development of a Genetic Algorithm based Electric Vehicle Charging Coordination on Distribution Networks Yen-Chih Yeh and MEN-SHEN TSAI	1455 hrs 15582 EPSO-based Gaussian Process for Electricity Price Forecasting Hiroyuki Mori and KAORU NAKANO

May 26 Tuesday, 2015 at Small Conference Room 4 (on the second floor)			
Tu3-2F4 1415-1515		SS17: Differential Evolution: Past, Present, and Future 1	
Chaired by: KAI QIN AND P. N. SUGANTHAN			
1415 hrs 15438 An Improved Differential Evolution for Batching Problem in Steelmaking Production WENJIE XU and Gongshu Wang	1435 hrs 15273 Greedy Adaptation of Control Parameters in Differential Evolution for Global Optimization Problems MIGUEL LEON and Ning Xiong	1455 hrs 15619 Cluster-Based Differential Evolution with Heterogeneous Influence for Numerical Optimization Mostafa Ali, Noor Awad, Rehab Duwairi, Jafar Albadarneh, Robert Reynolds and PONNUTHURAI SUGANTHAN	
May 26 Tuesday, 2015 at Small Conference Room 5 (on the second floor)			
Tu3-2F5 1415-1515		SS05: Bat Algorithm and Cuckoo Search 3	
Chaired by: XIN-SHE YANG AND MILAN TUBA			
1415 hrs 15253 A modified Bat algorithm for the Quadratic Assignment Problem. APURV SHUKLA	1435 hrs 15261 Modified bat algorithm with quaternion representation IZTOK FISTER, Janez Brest, Iztok Jr. Fister and Xin-She Yang	1455 hrs 15510 Hybridized Bat Algorithm for Multi-Objective Radio Frequency Identification (RFID) Network Planning MILAN TUBA and Nebojsa Bacanin	
May 26 Tuesday, 2015 at Small Conference Room 6 (on the third floor)			
Tu3-3F6 1415-1515		SS36: Evolutionary Computation in Aerospace Science 1	
Chaired by: MASSIMILIANO VASILE AND MASAHIRO KANAZAKI			
1415 hrs 15059 Structural Optimisation of a Composite Aircraft Frame Applying a Particle Swarm Algorithm LENNART WEISS, Hardy Koeke and Christian Huehne	1435 hrs 15669 Efficient Global Optimization Applied to Aerodynamic Drag Reduction Around Cylinder Using Plasma Actuators in Wind Tunnel Experiment MASAHIRO KANAZAKI, Matsuno Takashi, Maeda Kengo and Kawazoe Hiromitsu		
May 26 Tuesday, 2015 at Small Conference Room 7 (on the third floor)			
Tu3-3F7 1415-1535		SS27: Big Optimization & SS48: Evolutionary Computation in Big Data	
Chaired by: KAY CHEN TAN, SHI CHENG, YUHUI SHI, YAOCHU JIN, SABER ELSAYED, AND LIU JING			
1415 hrs 15007 Adaptive Configuration of Differential Evolution Algorithms for Big Data SABER ELSAYED and Ruhul Sarker	1435 hrs 15317 A Multi-agent Genetic Algorithm for Big Optimization Problems Yutong Zhang, Zhou Mingxing, Jiang Zhongzhou and LIU JING	1455 hrs 15171 Deadline Constrained Cloud Computing Resources Scheduling for Cost Optimization Based on Dynamic Objective Genetic Algorithm ZONG-GAN CHEN, Ke-Jing Du, Zhi-Hui Zhan and Jun Zhang	1515 hrs 15239 Evolutionary Undersampling for Imbalanced Big Data Classification ISAAC TRIGUERO, Mikel Galar, Sarah Vluymans, Chris Cornelis, Humberto Bustince, Francisco Herrera and Yvan Saeyns
May 26 Tuesday, 2015 at Small Conference Room 8 (on the third floor)			
Tu3-3F8 1415-1515		Heuristics, Metaheuristics and Hyper-heuristics 3	
Chaired by: REGINA BARRETTA			
1415 hrs 15459 Analysis of Global Information Sharing in Hyper-heuristics for Different Dynamic Environments STEFAN VAN DER STOCKT and Andries P. Engelbrecht	1435 hrs 15566 A Math-Hyper-Heuristic Approach for Large-Scale Vehicle Routing Problems with Time Windows Nasser R. Sabar, Xiuzhen Jenny Zhang and ANDY SONG	1455 hrs 15056 A Memetic Algorithm for the Quadratic Assignment Problem with Parallel Local Search Matthew Harris, REGINA BERRETTA, Mario Inostroza-Ponta and Pablo Moscato	

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
Tu3-3F9 1415-1515	Multi-Objective Evolutionary Algorithms 3	
Chaired by: CARLOS A. COELLO COELLO		
1415 hrs 15184 A New Evolutionary Multi-objective Algorithm for Convex Hull Maximization WENJING HONG, Guanzhou Lu, Peng Yang, Yong Wang and Ke Tang	1435 hrs 15198 Reference Vector Based a posteriori Preference Articulation for Evolutionary Multiobjective Optimization RAN CHENG, Markus Olhofer and Yaochu Jin	1455 hrs 15209 GDE-MOEA : A New MOEA based on the Generational Distance indicator and epsilon-dominance ADRIANA MENCHACA-MENDEZ and Carlos A. Coello Coello

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Tu3-3F10 1415-1515	SS04: Bound Constrained Single Objective Numerical Optimization Competition 3	
Chaired by: P. N. SUGANTHAN, RADOKA POLAKOVA, AND MOHAMMED EL-ABD		
1415 hrs 15473 Cooperation of Optimization Algorithms: A Simple Hierarchical Model RADKA POLAKOVA, Josef Tvrdik and Petr Bujok	1435 hrs 15485 Hybrid Cooperative Co-evolution For The CEC15 Benchmarks MOHAMMED EL-ABD	1455 hrs 15487 Experiments on the CEC 2015 Expensive Optimization Testbed VINCENT BERTHIER

May 26 Tuesday, 2015 at Small Conference Room 1 (on the first floor)		
Tu4-1F1 1545-1645	Genetic Algorithms 4	
Chaired by: MICHAEL FENTON AND SINHA ANKUR		
1545 hrs 15434 Load Balancing in Heterogeneous Networks using Grammatical Evolution MICHAEL FENTON, David Lynch, Stepan Kucera, Holger Claussen and Michael O'Neill	1605 hrs 15488 Bio-Inspired Redistribution of Urban Traffic Flow Using a Social Network Approach CRISTIAN COSARIU, Alexandru Iovanovici, Prodan Lucian, Udrescu Mihai and Vladutiu Mircea	1625 hrs 15692 Unconstrained Robust Optimization using a Descent-based Crossover Operator Aleksi Porokka, SINHA ANKUR, Malo Pekka and Deb Kalyanmoy

May 26 Tuesday, 2015 at Small Conference Room 2 (on the first floor)		
Tu4-1F2 1545-1645	Particle Swarm Optimization 4	
Chaired by: MARDE HELBIG		
1545 hrs 15307 Presented by MARDE HELBIG Vector-Evaluated Particle Swarm Optimization with Local Search Derek Dibblee, Justin Maltese, Beatrice Ombuki-Berman and Andries Engelbrecht	1605 hrs 15308 Mentoring based Particle Swarm Optimization Algorithm for Faster Convergence MUHAMMAD RIZWAN TANWEER, Suresh Sundaram and Narasimhan Sundararajan	1625 hrs 15165 Staying Together Maybe Better for Particles Ji Ma, JunQi Zhang and LINWEI XU

May 26 Tuesday, 2015 at Small Conference Room 3 (on the first floor)		
Tu4-1F3 1545-1645	SS39: Evolutionary Computation for Smart Grid Operation and Planning 2	
Chaired by: HIROYUKI MORI AND YOSHIKAZU FUKUYAMA		
1545 hrs 15326 A Reinforcement learning algorithm for Agent-based Computational Economics (ACE) model of electricity markets BHARAT MENON RADHAKRISHNAN, Dipti Srinivasan, Yong Fu Alfred Lau, Balaji Gokulan Parasumanna, Akshay Kumar Rathore, Sanjib Kumar Panda and Ashwin Khambadkone	1605 hrs 15329 Parallel Particle Swarm Optimization for Reactive Power and Voltage Control Verifying Dependability YOSHIKAZU FUKUYAMA	1625 hrs 15373 A Multi-objective Genetic Algorithm for Unit Commitment with Significant Wind Penetration ANUPAM TRIVEDI, Dipti Srinivasan, Thomas Reindl and Chanan Singh

May 26 Tuesday, 2015 at Small Conference Room 4 (on the second floor)		
Tu4-2F4 1545-1645	SS17: Differential Evolution: Past, Present, and Future 2	
Chaired by: KAI QIN AND TSUNG-CHE CHIANG		
1545 hrs 15293 Adaptive Differential Evolution: A Visual Comparison Chi-An Chen and TSUNG-CHE CHIANG	1605 hrs 15421 An Improved Mutation Strategy Based on Center of Solutions for Differential Evolution Algorithm JING-ZHONG WANG, Dai-Fen Wu and Tsung-Ying Sun	1625 hrs 15670 A Sensitivity Study of Contribution-Based Cooperative Co-evolutionary Algorithms BORHAN KAZIMPOUR, Mohammad Omidvar, Xiaodong Li and A. K. Qin
May 26 Tuesday, 2015 at Small Conference Room 5 (on the second floor)		
Tu4-2F5 1545-1625	SS05: Bat Algorithm and Cuckoo Search 4 & Ant Colony Optimization 1	
Chaired by: XIN-SHE YANG AND ANDRES IGLESIAS		
1545 hrs 15517 Memetic Firefly Algorithm for Data Fitting with Rational Curves ANDRES IGLESIAS and Akemi Galvez	1605 hrs 15023 ADR-Miner: An Ant-Based Data Reduction Algorithm for Classification ISMAIL M. ANWAR, Khalid M. Salama and Ashraf M. Abdelbar	
May 26 Tuesday, 2015 at Small Conference Room 6 (on the third floor)		
Tu4-3F6 1545-1645	SS36: Evolutionary Computation in Aerospace Science 2	
Chaired by: MASSIMILIANO VASILE, JIN ZHANG AND DAISUKE SASAKI		
1545 hrs 15251 Analysis of Multiple Asteroids Rendezvous Optimization using Genetic Algorithms JIN ZHANG, Yazhong Luo, Haiyang Li and Guojin Tang	1605 hrs 15310 Multi-objective Evolutionary Optimization of Evasive Maneuvers Included Observability Performance DATENG YU, Yazhong Luo, Zicheng Jiang and Guojin Tang	1625 hrs 15325 Robust Airfoil Optimization of Human-Powered Aircraft against Manufacturing Variations DAISUKE SASAKI, Takahito Kurishita and Masaru Kamada
May 26 Tuesday, 2015 at Small Conference Room 7 (on the third floor)		
Tu4-3F7 1545-1645	SS30: When Evolutionary Computation Meets Data Mining 1	
Chaired by: ZHUN FAN, ZHUAN-KANG TING, JUN ZHANG, KAY CHEN TAN, IRAKLIS VARLAMIS, AND CHUN-HAO CHEN		
1545 hrs 15424 Forming Classifier Ensembles with Multimodal Evolutionary Algorithms STUART LACY, Michael Lones and Stephen Smith	1605 hrs 15098 Evolutionary data sampling for user movement classification IRAKLIS VARLAMIS	1625 hrs 15323 Mining Group Stock Portfolio by Using Grouping Genetic Algorithms CHUN-HAO CHEN, Cheng-Bon Lin and Chao-Chun Chen
May 26 Tuesday, 2015 at Small Conference Room 8 (on the third floor)		
Tu4-3F8 1545-1645	SS18: Evolutionary Algorithms in Hyper-heuristics	
Chaired by: NELISHIA PILLAY		
1545 hrs 15518 Google Challenge: A Hyperheuristic for the Machine Reassignment Problem Rodolfo Hoffmann, Maria-Cristina Riff, Elizabeth Montero and NICOLAS ROJAS	1605 hrs 15683 Algorithm Structure Optimization by Choosing Operators in Multiobjective Genetic Local Search YUKI TANIGAKI, Hiroyuki Masuda, Yu Setoguchi, Yusuke Nojima and Hisao Ishibuchi	1625 hrs 15181 Comparison of Scalarization Functions within a Local Surrogate Assisted Multi-objective Memetic Algorithm Framework for Expensive Problems PRAMUDITA PALAR, Takeshi Tsuchiya and Geoff Parks

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
Tu4-3F9 1545-1645	Multi-Objective Evolutionary Algorithms 4	
Chaired by: TAKESHI WATANABE		
1545 hrs 15270 A Multi-Objective Optimization Approach to Reliable Robot-Assisted Sensor Relocation BENJAMIN DESJARDINS, Rafael Falcon, Rami Abielmona and Emil Petru	1605 hrs 15321 On the fast hypervolume calculation method TAKESHI WATANABE, Tomoaki Tatsukawa and Akira Oyama	1625 hrs 15382 Efficient Computation of Two-dimensional Solution Sets Maximizing the Epsilon-Indicator Karl Bringmann, Tobias Friedrich and PATRICK KLITZKE

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Tu4-3F10 1545-1645	SS04: Bound Constrained Single Objective Numerical Optimization Competition 4	
Chaired by: P. N. SUGANTHAN, THOMAS STUETZLE, AND SHI CHENG		
1545 hrs 15527 Generalized Artificial Bee Colony Algorithm with Local Search Strategies Dogan Aydin and THOMAS STUETZLE	1605 hrs 15568 Multimodal Optimization Using Particle Swarm Optimization Algorithms: CEC 2015 Competition on Single Objective Multi-Niche Optimization SHI CHENG, Quande Qin, Yuhui Shi and Qingyu Zhang	1625 hrs 15598 Exponentially Decreased Dimension Number Strategy in Dynamic Search Fireworks Algorithm for CEC2015 Competition Problems SHAOQIU ZHENG, Chao Yu, Junzhi Li and Ying Tan

May 26 Tuesday, 2015 at Small Conference Room 1 (on the first floor)		
Tu5-1F1 1700-1800	Coevolutionary systems	
Chaired by: ROHITASH CHANDRA AND CARLOS A. COELLO COELLO		
1700 hrs 15036 Competitive Two-Island Cooperative Coevolution for Real Parameter Global Optimisation Rohitash Chandra and KAVITESH BALI	1720 hrs 15069 Multi-Objective Cooperative Neuro-Evolution of Recurrent Neural Networks for Time Series Prediction ROHITASH CHANDRA and Shelvin Chand	1740 hrs 15316 A Non-cooperative Game for Faster Convergence in Cooperative Coevolution for Multi-objective Optimization LUIS MIGUEL ANTONIO and Carlos A. Coello Coello

May 26 Tuesday, 2015 at Small Conference Room 2 (on the first floor)		
Tu5-1F2 1700-1740	Particle Swarm Optimization 5	
Chaired by: TOSHIHARU HATANAKA		
1700 hrs 15355 Dynamic-PSO: An Improved Particle Swarm Optimizer NITIN SAXENA, Ashish Tripathi, Mishra K. K. and Misra A. K.	1720 hrs 15561 Three Variations of a Particle Swarm Optimization/Tabu Search Approach to the Quadratic Assignment Problem Ayah Helal, ENAS JAWDAT and Ashraf Abdelbar	

May 26 Tuesday, 2015 at Small Conference Room 3 (on the first floor)		
Tu5-1F3 1700-1800	SS39: Evolutionary Computation for Smart Grid Operation and Planning 3 & SS32: Evolutionary Computation in Energy Domain	
Chaired by: HIROYUKI MORI, YOSHIKAZU FUKUYAMA, HAILIN LIU, AND OLIVER KRAMER		
1700 hrs 15235 Optimized Base Station Sleeping and Renewable Energy Procurement Using PSO Qiang Wang and HAILIN LIU	1720 hrs 15610 Application of EPSO to Designing a Contract Model of Weather Derivatives in Smart Grid HIROYUKI MORI and Hajime Fujita	1740 hrs 15632 Evolutionary Feature Weighting for Wind Power Prediction with Nearest Neighbor Regression NILS TREIBER and Oliver Kramer

May 26 Tuesday, 2015 at Small Conference Room 4 (on the second floor)	
Tu5-2F4 1700-1800	SS17: Differential Evolution: Past, Present, and Future 3
Chaired by: KAI QIN	
1700 hrs 15426 Composite Differential Evolution with Queuing Selection for Multimodal Optimization	1720 hrs 15613 Local Ensemble Surrogate Assisted Crowding Differential Evolution
ZHANG YU-HUI, Gong Yue-Jiao and Zhang Jun	CHEN JIN, A. K. Qin and Ke Tang

May 26 Tuesday, 2015 at Small Conference Room 5 (on the second floor)		
Tu5-2F5 1700-1800	Ant Colony Optimization 2	
Chaired by: STEVEN CORNS		
1700 hrs 15415 A Novel Heterogeneous Feature Ant Colony Optimization and its Application on Robot Path Planning	1720 hrs 15646 A Method for Tabu-Ant Colony Optimization	1740 hrs 15039 Presented by FELIPE EDUARDO DO NASCIMENTO MAZULLO Artificial Immune Systems in Intelligent Agents Test
Yiyun Yao, QINGJIAN NI, Qing Lv and Kai Huang	David Haynes and STEVEN CORNS	Savio Mota Carneiro, Thiago Allisson Ribeiro da Silva, Ricardo de Andrade Lira Rabelo, Francisca Raquel de Vasconcelos Silveira and Gustavo Augusto Lima de Campos

May 26 Tuesday, 2015 at Small Conference Room 6 (on the third floor)		
Tu5-3F6 1700-1800	SS36: Evolutionary Computation in Aerospace Science 3	
Chaired by: MASSIMILIANO VASILE, HARDY KOEKE		
1700 hrs 15387 Evolutionary Algorithm Applied to Ballistic Launch Vehicle Design Using Hybrid Rocket Engine Evaluated by Enhanced Flight Simulation	1720 hrs 15428 BESO with Strain Controlled Material Assignment	1740 hrs 15584 Multi-Population Inflationary Differential Evolution Algorithm with Adaptive Local Restart
HIDEYUKI YODA, Shoma Ito, Masahiro Kanazaki, Kazuhisa Chiba, Koki Kitagawa and Toru Shimada	HARDY KOEKE, Lennart Weiss and Christian Huehne	Mariena Di Carlo, MASSIMILIANO VASILE and Edmondo Minisci

May 26 Tuesday, 2015 at Small Conference Room 7 (on the third floor)			
Tu5-3F7 1700-1820	SS30: When Evolutionary Computation Meets Data Mining 2		
Chaired by: ZHUN FAN AND HIROYASU TOMOYUKI			
1700 hrs 15419 Using Association Rules to Guide Evolutionary Search in Solving Constraint Satisfaction	1720 hrs 15009 A Memetic Gravitation Search Algorithm for Solving Cluster Problems	1740 hrs 15430 A Comparison of Evolved Linear and Non-Linear Ensemble Vote Aggregators	1800 hrs 15570 Investigation of Regions of Interest (ROI) through the Selection of Optimized Channels in fNIRS Data
MADALINA RASCHIP, Cornelius Croitoru and Kilian Stoffel	Ko-WEI HUANG, Jui-Le Chen, Chu-Sing Yang and Chun-Wei Tsai	STUART LACY, Michael Lones and Stephen Smith	HIROYASU TOMOYUKI, Yoshida Tomoya and Yamamoto Utako

May 26 Tuesday, 2015 at Small Conference Room 8 (on the third floor)		
Tu5-3F8 1700-1800	Emerging Areas and Technologies	
Chaired by: CLAUS DE CASTRO ARANHA AND KALYANMOY DEB		
1700 hrs 15172 Renumbr Strategy Enhanced Particle Swarm Optimization for Cloud Computing Resource Scheduling	1720 hrs 15461 Optimization of Oil Reservoir Models Using Tuned Evolutionary Algorithms and Adaptive Differential Evolution	1740 hrs 15635 An Integrated Approach Involving EMO and HYDRUS-2D Software for SWRT-based Precision Irrigation: Initial Results
HAI-HAO LI, Zhi-Hui Zhan and Jun Zhang	CLAUS DE CASTRO ARANHA, Ryoji Tanabe, Romain Chassagne and Alex Fukunaga	Cem Tutum, Andrey Guber, KALYANMOY DEB, Alvin Smucker, A. Pouyan Nejadhashemi and Berna Kiraz

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
Tu5-3F9 1700-1800	Multi-Objective Evolutionary Algorithms 5	
Chaired by: HUI LI		
1700 hrs 15441 On the Use of Random Weights in MOEA/D	1720 hrs 15455 Evolutionary Algorithm with Parallel Evaluation Strategy of Feasible and Infeasible Solutions Considering Total Constraint Violation	1740 hrs 15466 A Multi-Objective Genetic Algorithm-Based Adaptive Weighted Clustering Protocol in VANET
HUI LI, Min Ding, Jingda Deng and Qingfu Zhang	TAIGA KATO, Koji Shimoyama and Shigeru Obayashi	MOHAMED HADDED, Rachid Zagrouba, Laouiti Anis, Paul Muhlethaler and Leila Azouz Saidane

May 26 Tuesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Tu5-3F10 1700-1800	SS04: Bound Constrained Single Objective Numerical Optimization Competition 5	
Chaired by: P. N. SUGANTHAN, YIU-MING CHEUNG AND MOSTAFA ALI		
1700 hrs 15611 An Evolutionary Algorithm Based on Decomposition for Multimodal Optimization Problems	1720 hrs 15620 A Differential Evolution with Success-based Parameter Adaptation for CEC2015 Learning-based Optimization	1740 hrs 15642 Dynamic Search Fireworks Algorithm with Covariance Mutation for Solving the CEC 2015 Learning Based Competition Problems
Fangqing Gu, YIU-MING CHEUNG and Jie Luo	Noor Awad, MOSTAFA ALI and Robert Reynolds	CHAO YU, Ling Chen Kelley and Ying Tan

Wednesday

May 27 Wednesday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)		
Plenary III & Award Ceremony	EC Pioneer Award Lecture	
Chaired by: KAY CHEN TAN		
Industrial Problem Solving by Evolutionary Computation Professor Thomas Bäck (Computer Science, Leiden University, The Netherlands)		
Award Ceremony Chair: SHIGERU ODAYASHI, Secretary: TADAHIKO MURATA		

May 27 Wednesday, 2015 at Small Conference Room 1 (on the first floor)		
We1-1F1 0945-1045	Genetic Programming 1	
Chaired by: MAN-LEUNG WONG AND HEMANT SINGH		
0945 hrs 15244 Financial Fraud Detection by using Grammar-based Multi-objective Genetic Programming with ensemble learning	1005 hrs 15256 Feature Selection and Classification Using Ensembles of Genetic Programs and Within-class and Between-class Permutations	1025 hrs 15335 A Multi-objective Genetic Programming Approach to Uncover Explicit and Implicit Equations from Data
Haibing Li and MAN-LEUNG WONG	ANNICA IVERT, Claus Aranha and Hitoshi Iba	Bing Wang, HEMANT SINGH and Tapabrata Ray

May 27 Wednesday, 2015 at Small Conference Room 2 (on the first floor)		
We1-1F2 0945-1045	Particle Swarm Optimization 6	
Chaired by: BING XUE		
0945 hrs 15573 A Novel PSO for Portfolio Optimization base on Heterogeneous Multiple Population Strategy	1005 hrs 15606 Code Coverage Optimisation in Genetic Algorithms and Particle Swarm Optimisation for Automatic Software Test Data Generation	1025 hrs 15658 Particle Swam Optimization Based Reliability-Redundancy Allocation in a Type-2 Fuzzy Environment
Xushan Yin, QINGJIAN NI and Yuqing Zhai	Chahine Koleejan, BING XUE and Mengjie Zhang	ASHRAF ZUBAIR, Pranab K Muhuri and Danish Q. M. Lohani

May 27 Wednesday, 2015 at Small Conference Room 3 (on the first floor)		
We1-1F3 0945-1045	Representation and Operators 1	
Chaired by: DANIEL ASHLOCK AND JAMES MONTGOMERY		
0945 hrs 15143 Resource Allocation between Initialization and Optimization under Computational Expensive Environment Yi SUN and Victor O. K. Li	1005 hrs 15166 A Class of Representations for Evolving Graphs DANIEL ASHLOCK and Lee Ann Barlow	1025 hrs 15315 Representation Matters: Real-valued Encodings for Meander Line RFID Antennas JAMES MONTGOMERY
May 27 Wednesday, 2015 at Small Conference Room 4 (on the second floor)		
We1-2F4 0945-1045	SS10: Evolutionary Computation in Dynamic and Uncertain Environment	
Chaired by: MICHALIS MAVROVOUNIOTIS		
0945 hrs 15160 The Interval Sensor Node's Model in Wireless Sensor Network under Uncertain Environments YI-NAN GUO, Haiyuan Liu and Zhen Yang	1005 hrs 15242 New Performance Indicators for Robust Optimization Over Time YUANJUN HUANG, Yaochu Jin and Yongsheng Ding	1025 hrs 15500 An Adaptive Local Search Algorithm for Real-Valued Dynamic Optimization MICHALIS MAVROVOUNIOTIS, Ferrante Neri and Shengxiang Yang
May 27 Wednesday, 2015 at Small Conference Room 5 (on the second floor)		
We1-2F5 0945-1045	SS24: Computational Intelligence and Games 1	
Chaired by: RUCK THAWONMAS, DANIEL ASHLOCK AND IVAN TANEV		
0945 hrs 15054 Nash Reweighting of Monte Carlo Simulations: Tsumego David L. St-Pierre, JIALIN LIU and Olivier Teytaud	1005 hrs 15266 Testing General Game Players Against a Simplified Boardgames Player Using Temporal-difference Learning JAKUB KOWALSKI and Andrzej Kisielewicz	1025 hrs 15347 Evolutionary Development of Electronic Stability Program for a Simulated Car in TORCS Environment JILIN HUANG, Ivan Tanev and Katsunori Shimohara
May 27 Wednesday, 2015 at Small Conference Room 6 (on the third floor)		
We1-3F6 0945-1045	SS19: Parallel and Distributed Evolutionary Computation in the Cloud Era 1	
Chaired by: MASAHARU MUNETOMO, YUJI SATO AND KEIKO ONO		
0945 hrs 15206 Mutation-based Receiver Search in a Network for Temporary Information Sharing KEI OHNISHI, Kazuya Tsukamoto and Mario Koeppen	1005 hrs 15288 A CUDA-based Self-adaptive Subpopulation Model in Genetic Programming: cuSASGP KEIKO ONO and Yoshiko Hanada	1025 hrs 15538 Paralleled Fitness Optimizer with Modified Dynamic Virtual Term for Multimodal Problems SHIQIN YANG and Yuji Sato
May 27 Wednesday, 2015 at Small Conference Room 7 (on the third floor)		
We1-3F7 0945-1045	SS21: Evolutionary Bilevel Optimization 1	
Chaired by: ANKUR SINHA, KALYANMOY DEB, AND ABHISHEK GUPTA		
0945 hrs 15080 An Evolutionary Algorithm with Adaptive Scalarization for Multiobjective Bilevel Programs ABHISHEK GUPTA and Yew-Soon Ong	1005 hrs 15104 A Memetic Algorithm for the Solution of Single Objective Bilevel Optimization Problems MD MONJURUL ISLAM, Hemant Singh and Tapabrata Ray	1025 hrs 15490 Transportation Policy Formulation as a Multi-objective Bilevel Optimization Problem ANKUR SINHA, Pekka Malo and Kalyanmoy Deb

May 27 Wednesday, 2015 at Small Conference Room 8 (on the third floor)		
We1-3F8 0945-1045	SS09: Combining Evolutionary Computation and Reinforcement Learning 1	
Chaired by: MADALINA M. DRUGAN		
0945 hrs 15061 Annealing Linear Scalarized Based Multi-Armed Bandit Algorithm SABA YAHYAA, Madalina Drugan and Bernard Manderick	1005 hrs 15125 Risk-Sensitivity Through Multi-Objective Reinforcement Learning KRISTOF VAN MOFFAERT, Tim Brys and Ann Nowe	1025 hrs 15134 Stochastic Pareto local search for many objective quadratic assignment problem instances MADALINA DRUGAN

May 27 Wednesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
We1-3F9 0945-1045	Multi-Objective Evolutionary Algorithms 6	
Chaired by: BILEL DERBEL, AMIRAM MOSHAIOV		
0945 hrs 15489 A Fine-Grained Message Passing MOEA/D BILEL DERBEL, Arnaud Liefvooghe, Gauvain Marquet and El-Ghazali Talbi	1005 hrs 15504 Concept-based Evolutionary Exploration of Design Spaces by a Resolution-Relaxation-Pareto Approach AMIRAM MOSHAIOV, Alon Snir and Barak Samina	1025 hrs 15536 Incremental Non-Dominated Sorting with O(N) Insertion for the Two-Dimensional Case Ilya Yakupov and MAXIM BUZDALOV

May 27 Wednesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
We1-3F10 0945-1045	SS04: Bound Constrained Single Objective Numerical Optimization Competition 6	
Chaired by: P. N. SUGANTHAN		
0945 hrs 15664 Improved Self Regulating Particle Swarm Optimization Algorithm for Solving CEC 2015 Bound Constrained Single-Objective Computationally Expensive Numerical Optimization Problems MUHAMMAD RIZWAN TANWEER, Suresh Sundaram and Narasimhan Sundararajan	1005 hrs 15682 Parameter Tuned CMA-ES on the CEC'15 Expensive Problems MARTIN ANDERSSON, Sunith Bandaru, Amos Ng and Anna Syberfeldt	

May 27 Wednesday, 2015 at Small Conference Room 1 (on the first floor)		
We2-1F1 1105-1205	Genetic Programming 2	
Chaired by: BING XUE AND MIGUEL NICOLAU		
1105 hrs 15342 Generalisation and Domain Adaptation in GP with Gradient Descent for Symbolic Regression Qi Chen, BING XUE and Mengjie Zhang	1125 hrs 15457 Transfer Learning in Genetic Programming THI THU HUONG DINH, Chu Thi Huong and Nguyen Quang Uy	1145 hrs 15594 Guidelines for defining benchmark problems in Genetic Programming MIGUEL NICOLAU, Alexandros Agapitos, Michael O'Neill and Anthony Brabazon

May 27 Wednesday, 2015 at Small Conference Room 2 (on the first floor)		
We2-1F2 1105-1205	Developmental Swarm Intelligence 1	
Chaired by: YUHUI SHI AND YING TAN		
1105 hrs 15114 Improved Chaotic Gravitational Search Algorithms for Global Optimization Dongmei Shen, Tao Jiang, Wei Chen, Qian Shi and SHANGCE GAO	1125 hrs 15372 Brain Storm Optimization Algorithm in Objective Space YUHUI SHI	1145 hrs 15655 Regional Seismic Waveform Inversion Using Swarm Intelligence Algorithms Ke Ding, Yanyang Chen, Yanbin Wang and YING TAN

May 27 Wednesday, 2015 at Small Conference Room 3 (on the first floor)			
We2-1F3 1105-1205		Representation and Operators 2	
Chaired by: RICHARD J. DURO AND DANIEL ASHLOCK			
1105 hrs 15192 Ring Optimization with Extinction DANIEL ASHLOCK, Sierra Gillis and Gary Fogel	1125 hrs 15268 Improving the Performance of Evolutionary Algorithms by Soft-Constraining Their Sampling Capabilities Pilar Caamano, Gervasio Varela, RICHARD J. DURO	1145 hrs 15444 Evolvability of Representations in Complex System Engineering: a Survey ANDREAS RICHTER, Mario Botsch and Stefan Menzel	

May 27 Wednesday, 2015 at Small Conference Room 4 (on the second floor)			
We2-2F4 1105-1205		SS06: Evolutionary Computation with Complex Systems	
Chaired by: IVAN ZELINKA AND ROMAN SENKERIK			
1105 hrs 15204 A Discrete Particle Swarm Optimization Box-covering Algorithm for Fractal Dimension on Complex Networks LI KUANG, Feng Wang, Yuanxiang Li and Haiqiang Mao	1125 hrs 15450 Multiple Choice Strategy with Dimensional Mutation for PSO Algorithm Enhanced with Chaotic Dissipative Standard Map MICHAL PLUHACEK, Roman Senkerik and Donald Davendra	1145 hrs 15520 On the Parameter Settings for the Chaotic Dynamics Embedded Differential Evolution ROMAN SENKERIK, Michal Pluhacek and Donald Davendra	

May 27 Wednesday, 2015 at Small Conference Room 5 (on the second floor)			
We2-2F5 1105-1205		SS24: Computational Intelligence and Games 2	
Chaired by: RUCK THAWONMAS, DANIEL ASHLOCK, DAVID CAMACHO, AND NELISHIA PILLAY			
1105 hrs 15475 Balanced Civilization Map Generation based on Open Data GABRIELLA A. B. BARROS and Julian Togelius	1125 hrs 15499 A Multi-UAV Mission Planning Videogame-based Framework for Player Analysis Victor Rodriguez-Fernandez, Cristian Ramirez-Atencia and DAVID CAMACHO	1145 hrs 15634 Evolving Game Playing Strategies for Othello Clive Frankland and NELISHIA PILLAY	

May 27 Wednesday, 2015 at Small Conference Room 6 (on the third floor)			
We2-3F6 1105-1205		SS19: Parallel and Distributed Evolutionary Computation in the Cloud Era 2	
Chaired by: MASAHARU MUNETOMO, YUJI SATO AND KEI OHNISHI			
1105 hrs 15413 A Morphogenetic and Evolutionary Approach to Regulating Wireless Access Points for Energy-Efficient and Reliable Connection Services KEI OHNISHI, Kazuya Tsukamoto and Shigeru Kashihara	1125 hrs 15571 A Scalable Parallel Implementation of Evolutionary Algorithms for Multi-Objective Optimization on GPUs SAMARTH GUPTA and Gary Tan	1145 hrs 15451 Distributed Denial of Services Attack Protection System with Genetic Algorithms on Hadoop Cluster Computing Framework Masataka Mizukoshi and MASAHARU MUNETOMO	

May 27 Wednesday, 2015 at Small Conference Room 7 (on the third floor)			
We2-3F7 1105-1225		SS21: Evolutionary Bilevel Optimization 2	
Chaired by: ANKUR SINHA, KALYANMOY DEB, LAMIJED BEN SAID, HELIO BARBOSA			
1105 hrs 15470 A Co-evolutionary Decomposition-based Algorithm for Bi-level Combinatorial Optimization Abir Chaabani, Slim Bechikh and LAMIJED BEN SAID	1125 hrs 15191 Incorporating Data Envelopment Analysis Solution Methods into Bilevel Multi-Objective Optimization Moriah Bostian, ANKUR SINHA, Gerald Whittaker and Brad Barnhart	1145 hrs 15193 Stackelberg-Nash Differential Evolution for Bilevel Optimization with Multiple Followers Jaqueline Angelo and HELIO BARBOSA	1205hrs 15478 Handling Decision Variable Uncertainty in Bilevel Optimization Problems ZHICHAO LU, Kalyanmoy Deb and Ankur Sinha

May 27 Wednesday, 2015 at Small Conference Room 8 (on the third floor)		
We2-3F8 1105-1205	SS09: Combining Evolutionary Computation and Reinforcement Learning 2	
Chaired by: MADALINA M. DRUGAN AND MAXIM BUZDALOV		
1105 hrs 15274 Can OneMax Help Optimizing LeadingOnes using the EA+RL Method? MAXIM BUZDALOV and Arina Buzdalova	1125 hrs 15357 Online Distributed Voltage Control of an Offshore MTdc Network using Reinforcement Learning SILVIO RODRIGUES, Tim Brys, Rodrigo Teixeira Pinto, Ann Nowe and Pavol Bauer	1145 hrs 15535 Analysis of Q-Learning with Random Exploration for the Selection of Auxiliary Objectives in Random Local Search Maxim Buzdalov and ARINA BUZDALOVA
May 27 Wednesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
We2-3F9 1105-1225	Multi-Objective Evolutionary Algorithms 7	
Chaired by: KALYANMOY DEB		
1105 hrs 15612 Evolutionary Many-objective Optimization using Dynamic epsilon-Hoods and Chebyshev Function YUKI YAZAWA, Hernan Aguirre, Akira Oyama and Kiyoshi Tanaka	1125 hrs 15660 Type-2 Fuzzy Induced Non-dominated Sorting Bee Colony for Noisy Optimization PRATYUSHA RAKSHIT, Amit Konar, Atulya K Nagar	1145 hrs 15030 Evolutionary Multiobjective Optimization With Hybrid Selection Principles Ke Li, KALYANMOY DEB and Qingfu Zhang
May 27 Wednesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
We2-3F10 1105-1225	SS20: Large Scale Global Optimization 1	
Chaired by: KE TANG, XIAODONG LI, STEPHEN CHEN, XINGQUAN ZUO, AND DANIEL MOLINA		
1105 hrs 15168 A Minimum Population Search Hybrid for Large Scale Global Optimization Bolufe-Rohler, Sonia Fiol-Gonzalez and STEPHEN CHEN	1125 hrs 15412 A MOEA/D based Approach for Solving Robust Double Row Layout Problem Lingling Tang and XINGQUAN ZUO	1145 hrs 15480 Iterative hybridization of DE with Local Search for the CEC'2015 Special Session on Large Scale Global Optimization DANIEL MOLINA and Francisco Herrera
May 27 Wednesday, 2015 at Small Conference Room 1 (on the first floor)		
We3-1F1 1315-1415	Genetic Programming 3	
Chaired by: HELIO BARBOSA AND DANIEL ASHLOCK		
1315 hrs 15474 Co-evolutionary Genetic Programming for Dataset Similarity Induction JAKUB SMID, Martin Pilat, Klara Peskova and Roman Neruda	1335 hrs 15529 Grammar-based Immune Programming to Assist in the Solution of Functional Equations Heder Bernardino and HELIO BARBOSA	1355 hrs 15464 Flow of Control in Linear Genetic Programming Justin Schonfeld and DANIEL ASHLOCK
May 27 Wednesday, 2015 at Small Conference Room 2 (on the first floor)		
We3-1F2 1315-1415	SS07: Fireworks Algorithms 1	
Chaired by: YING TAN AND MILAN TUBA		
1315 hrs 15283 Fireworks Algorithm Applied to Constrained Portfolio Optimization Problem Nebojsa Bacanin and MILAN TUBA	1335 hrs 15577 Fireworks Algorithm with Covariance Mutation CHAO YU and Ying Tan	1355 hrs 15599 S-metric Based Multi-Objective Fireworks Algorithm LANG LIU, Shaoqiu Zheng and Ying Tan

May 27 Wednesday, 2015 at Small Conference Room 3 (on the first floor)			
We3-1F3 1315-1415		SS43: Fitness Landscape Analysis in Practice	
Chaired by: KATHERINE M. MALAN, MARIO MUNOZ			
1315 hrs 15272 Effects of Function Translation and Dimensionality Reduction on Landscape Analysis MARIO MUNOZ and Kate Smith-Miles	1335 hrs 15540 Presented by KATHERINE M. MALAN Evaluating Landscape Characteristics of Dynamic Benchmark Functions Ron Bond, Andries Engelbrecht and Beatrice Ombuki-Berman	1355 hrs 15685 Characterising Constrained Continuous Optimisation Problems KATHERINE MALAN, Johannes Oberholzer, Andries Engelbrecht	
May 27 Wednesday, 2015 at Small Conference Room 4 (on the second floor)			
We3-2F4 1315-1415		SS45: Complex Adaptive Systems 1	
Chaired by: SAORI INAGAWA AND HIROSHI SATO			
1315 hrs 15350 Analysis of Genetic Programming in Gait Recognition DIPAK GAIRE SHARMA, Ivan Tanav and Katsunori Shimohara	1335 hrs 15537 Toward Robustness Against Environmental Change Speed by Artificial Bee Colony Algorithm based on Local Information Sharing RYO TAKANO, Tomohiro Harada, Hiroyuki Sato and Keiki Takadama	1355 hrs 15628 Dynamic Leader Selection Based on Approximate Manipulability HIROSHI SATO, Masao Kubo, Tomohiro Shirakawa and Akira Namatame	
May 27 Wednesday, 2015 at Small Conference Room 5 (on the second floor)			
We3-2F5 1315-1435		SS24: Computational Intelligence and Games 3 & Ecology	
Chaired by: YUSUKE NOJIMA AND SEBASTIAN RISI			
1315 hrs 15657 Effects of Ensemble Action Selection with Different Usage of Player's Memory Resource on the Evolution of Cooperative Strategies for Iterated Prisoner's Dilemma Game TAKAHIKO SUDO, Kazushi Goto, Yusuke Nojima and Hisao Ishibuchi	1355 hrs 15257 PCGD: Principal Components-based Great Deluge Method for Solving CNOP SHICHENG WEN, Shijin Yuan, Bin Mu, Hongyu Li and Juhui Ren	1415 hrs 15234 RGB Algorithm for Spatial Evolutionary Game Theory with Finite Populations CHING-I HUANG, Hsiu-Hau Lin and Chun-Chung Chen	1435 hrs 15496 Interactive Evolution of Levels for a Competitive Multiplayer FPS Peter Olsted, Benjamin Ma and SEBASTIAN RISI
May 27 Wednesday, 2015 at Small Conference Room 6 (on the third floor)			
We3-3F6 1315-1415		Biometrics, Bioinformatics, and Biomedical Applications 1	
Chaired by: OWEN CLANCEY			
1315 hrs 15135 Locating Controlling Regions of Neural Networks Using Constrained Evolutionary Computation MOHAMMAD EITA, Tetsuo Shibuya and Amin A. Shoukry	1335 hrs 15262 A Mimetic Algorithm for Simultaneous Multileaf Collimator Aperture Shape and Dosimetric Optimization in CyberKnife Robotic Radiosurgery Matthew Witten and OWEN CLANCEY	1355 hrs 15328 Evolutionary design of oscillatory genetic networks in silico YUKI NARUSE, Hamada Hiroyuki, Hanai Taizo and Iba Hitoshi	
May 27 Wednesday, 2015 at Small Conference Room 7 (on the third floor)			
We3-3F7 1315-1435		SS50: Bridging Machine Learning and Evolutionary Computation	
Chaired by: HUANHUAN CHEN, KANGSHUN LI, AIMIN ZHOU, AND OLIVER KRAMER			
1315 hrs 15118 On Anycast Routing Based on Parallel Evolutionary Algorithm KANGSHUN LI, Xiaoyang Deng and Xinyu Zhou	1335 hrs 15142 Multi-Objective Multi-View Clustering Ensembles based on Evolutionary Approach ABDUL WAHID, Xiaoying Gao and Peter Andreae	1355 hrs 15322 On Neighborhood Exploration and Subproblem Exploitation in Decomposition Based Multiobjective Evolutionary Algorithms AIMIN ZHOU, Yuting Zhang, Guixu Zhang and Wenyin Gong	1415 hrs 15648 Evolution Strategies with Ledoit-Wolf Covariance Matrix Estimation OLIVER KRAMER

May 27 Wednesday, 2015 at Small Conference Room 8 (on the third floor)

We3-3F8 1315-1435 Evolved Neural Networks

Chaired by: ROHITASH CHANDRA

1315 hrs 15180 Cooperative Neuro-evolution of Elman Recurrent Networks for Tropical Cyclone Wind-Intensity Prediction in the South Pacific Region ROHITASH CHANDRA and Kavina Dayal	1335 hrs 15640 Searching for Novelty in Pole Balancing ALLEN HUANG, Geoff Nitschke, and David Shorten	1355 hrs 15482 A Simulated Annealing Approach to Supplier Selection Aware Inventory Planning SEDA TURK, Simon Miller, Ender Ozcan and Robert John
---	---	---

May 27 Wednesday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)

We3-3F9 1315-1415 Multi-Objective Optimization 1

Chaired by: RUIMIN SHEN, TEPABRATA RAY, KOJI SHIMOYAMA, AND JAN CORFIXEN SOERENSEN

1315 hrs 15082 A Hybrid Development Platform for Evolutionary Multi-Objective Optimization RUIMIN SHEN, Jinhua Zheng and Miqing Li	1335 hrs 15103 Selective Evaluation in Multiobjective Optimization: A Less Explored Avenue Kalyan Shankar Bhattacharjee and TAPABRATA RAY	1355 hrs 15318 Effects of the Number of Design Variables on Performances in Kriging-Model-Based Many-Objective Optimization CHANG LUO, Koji Shimoyama and Shigeru Obayashi	1415 hrs 15351 Comparative Study of Evolutionary Multi-objective Optimization Algorithms for a Non-linear Greenhouse Climate Control Problem SeyyedeH Newsha Ghoreishi, JAN CORFIXEN SOERENSEN and Bo Noerregaard Joergensen
--	---	--	--

May 27 Wednesday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)

We3-3F10 1315-1355 SS20: Large Scale Global Optimization 2 & SS08: Niching Method for Multimodal Optimization

Chaired by: KE TANG, XIAODONG LI, DANIEL MOLINA, CHYON HAE KIM AND FABRICIO DE FRANCA

1315 hrs 15012 An Effective Cooperative Coevolution Framework Integrating Global and Local Search for Large Scale Optimization Problems ZUJIAN CAO, Lei Wang, Yuhui Shi, Xinhong Hei, Xiaofeng Rong, Qiaoyong Jiang and Hongye Li	1315 hrs 15596 Experimental Results of Heterogeneous Cooperative Bare Bones Particle Swarm Optimization with Gaussian Jump for Large Scale Global Optimization JOON-WOO LEE, Taeyong Choi, Hyunmin Do, Dongil Park, Chanhun Park and Young-Su Son	1335 hrs 15003 A Generic Niching Framework for Variable Mesh Optimization Ricardo Navarro, Rafael Falcon, Tadahiko Murata and CHYON HAE KIM	1335 hrs 15111 Maximization of a Dissimilarity Measure for Multimodal Optimization FABRICIO DE FRANCA
---	---	---	---

May 27 Wednesday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)

1435-1810		Poster Session		
Chaired by: HERNAN AGUIRRE				
15076 A02: Artificial Immune System Immune Network Algorithm Applied to the Optimization of Composite SaaS in Cloud SIMONE LUDWIG and Kevin Bauer	15458 A02 Artificial Immune Systems Quantum immune clone for solving constrained multi-objective optimization RONGHUA SHANG, Licheng Jiao, Hao Xu and Yangyang Li	15025 A03: Coevolutionary Systems A Co-evolutionary Algorithm Based on Mixed Mutation Strategy for WDP in Combinatorial Auction Wei Hou, HONGBIN DONG and Guisheng Yin	15360 B03: Coevolution Sensory Configurations for Collective Behavior JAMES WATSON and Geoff Nitschke	15086 A05: Differential Evolution A Differential Evolution Based Axle Detector for Robust Vehicle Classification DEEPAK DAWAR and Simone Ludwig
15153 A05: Differential Evolution Improving Differential Evolution with Impulsive Control Framework Du Wei, Leung Sunney Yung Sun, Kwong Chun Kit and Tang Yang	15255 A05: Differential Evolution Dissipative Differential Evolution with Self-adaptive Control Parameters Jinglei Guo, Zhijian Li, Wei Xie and Hui WANG	15245 A09: Genetic Algorithms A genetic algorithm for the distributed assembly permutation flowshop scheduling problem Li Xiangtao, Zhang Xin and YIN MINGHAO	15250 A09: Genetic Algorithms Ensemble System based on Genetic Algorithm For Stock Market Forecasting Rafael Thomazi Gonzalez, Carlos Alberto Padilha and DANTE AUGUSTO COUTO BARONE	15151 A09: Genetic Algorithms Evolving Defensive Strategies Against Iterated Induction Attacks in Cognitive Radio Networks SIMING LIU, Shamik Sengupta and Sushil Louis
15037 A11: Heuristics Improved Harmony Search Algorithms by Tournament Selection Operator Gang Li, QINGZHONG WANG and Quan Du	15138 A12: Iterative Evolutionary Computation Image Retrieval Based on Interactive Differential Evolution FEI YU, Yuanxiang Li and Bo Wei	15097 A16: Multi-Objective Evolutionary Algorithms Solving Multi-objective Multi-stage Weapon Target Assignment Problem via Adaptive NSGA-II and Adaptive MOEA/D: A Comparison Study Juan Li, Jie Chen and Bin Xin	15624 A16: Multi-Objective Evolutionary Algorithms Reducing Complexity in Many Objective Optimization Using Community Detection ASEP MAULANA, Zhongzhou Jiang, Jing Liu, Thomas Bäck and Michael Emmerich	15077 C03: Multiobjective Optimization R2-MOPSO: A Multi-objective Particle Swarm Optimizer Based on R2-indicator and Decomposition FEI LI, Jianchang Liu and Shubin Tan
15344 C03: Multiobjective Optimizatio A New Algorithm based on PSO for Multi-objective Optimization MAN-FAI LEUNG, Sin-Chun Ng, Chi-Chung Cheung and Kwok-Fai Lui	15370 C03: Multiobjective Optimization Evolutionary Multi-objective Optimization for Evolving Hierarchical Fuzzy System Yosra Jarraya, Souhir Bouaziz, Adel M. Alimi and AJITH ABRAHAM	15471 C03: Multiobjective Optimization Using Genetic Algorithms to minimize the distance and balance the routes for the multiple Traveling Salesman Problem RAULCEZAR ALVES and Carlos Lopes	15173 A18: Particle Swarm Optimization Comparisons Study of Three PSOs on CEC2005 and CEC2014 Test Suits YAN-FEI LI, Zhi-Hui Zhan, Ying Lin and Jun Zhang	15212 A18: Particle Swarm Optimization A Particle Swarm Optimization Approach for Handling Network Social Balance Problem QING CAI, Maoguo Gong, Lijia Ma, Shanfeng Wang, Licheng Jiao and Haifeng Du
15045 C01: Numerical Optimization Adaptive Chemical Reaction Optimization for Global Numerical Optimization JAMES J.Q. YU, Albert Y.S. Lam and Victor O.K. Li	15154 C01: Numerical Optimization Parameter Sensitivity Analysis of Social Spider Algorithm JAMES J.Q. YU and Victor O.K. Li	15460 SS04: Single-Objective Numerical Optimization Self-adaptive Dynamic Multi-Swarm Particle Swarm Optimizer J.J. LIANG, L. Guo, B.Y. Qu and R. Liu	15629 SS04: Single-Objective Numerical Optimization Solving CEC 2015 Multi-modal Competition Problems Using Neighborhood Based Speciation Differential Evolution B. Y. Qu, J. J. LIANG, Z. Y. Wang and D. M. Liu	15667 SS04: Single-Objective Numerical Optimization Cognitive Architecture for Solving Optimization Problems ABDULLAH AL-DUJAILI, Kartick Subramanian and Suresh Sundaram
15600 SS04: Single-Objective Numerical Optimization An Ancestor based Extension to Differential Evolution: AncDE RUSHIKESH SAWANT, DONAGH Hatton and Diarmuid P. O'Donoghue	15411 D04: Simulation Based Optimization Short-term Optimal Hydrothermal Scheduling Problem Considering Power Flow Constraints Jingrui Zhang, Shuang Lin, XIANGXIANG ZENG and Qinghui Tang	15298 SS11: Planning and Schedule A Species Based Multiobjective Genetic Algorithm for Multiobjective Flow Shop Scheduling Problem HONGFENG WANG, Yaping Fu and Min Huang	15145 F01: Aerospace Engineering Optimal Tuning of Control Gains for Rigid Tapping Processes Using a Learning Automata Methodology SYH-SHIUH YEH and Jien-I Lee	15340 SS36: Aerospace Science Many Objective Optimization of Interplanetary Space Mission Trajectories MARTIN SCHLUETER, Yam Chit Hong, Takeshi Watanabe and Akira Oyama
15136 SS36: Aerospace Science Robust Design Optimization using Integrated Evidence Computation - with Application to Orbital Debris Removal LIQIANG HOU, Anum Pirzada, Yuanli Cai and Ma Hong	15108 F05: Classification Threshold Image Segmentation Based on Dynamic Mutation and Background Cooperation YANGYANG LI, Yang Yue, Licheng Jiao and Ruochen Liu	15410 F05: Classification Evolutionary Semi-Supervised Ordinal Regression Using Weighted Kernel Fisher Discriminant Analysis YUZHOU WU, Yu Sun, Xinle Liang and Ke Tang	15362 F09: Education A Hybrid Genetic Algorithm for Group Formation at Workplace Samuel Sabino Caetano, Deller James Ferreira, Celso Goncalves Camilo Junior and MATHEUS ULLMANN	15462 F09: Education Formation of Learning Groups in cMoocs Using Particle Swarm Optimization MATHEUS ULLMANN, Deller Ferreira, Celso Camilo-Junior, Samuel Caetano and Lucas de Assis
15196 F10: Finance and Economics Realised Volatility Forecasting: A Genetic Programming Approach Zheng Yin, ANTHONY BRABAZON, Conall O'Sullivan and Michael O'Neill	15197 F10: Finance and Economics A Genetic Programming Approach for Delta Hedging Zheng Yin, ANTHONY BRABAZON, Conall O'Sullivan and Michael O'Neill	15214 F10: Finance and Economics Forecasting Currency Exchange Rates with an Artificial Bee Colony-Optimized Neural Network CHUKIAT WORASUCHEEP	15277 F10: Finance and Economics Robust Stock Value Prediction using Support Vector Machines with Particle Swarm Optimization Trevor Sands, Deep Tayal, Mathew Morris and SILDOMAR MONTEIRO	15531 SS55: Social Simulation Evolutionary Big Optimization (BigOpt) of Signals Sim Kuan Goh, Hussein Abbass, Abdullah Al-Mamun and KAY CHEN TAN
15324 F11: Games Analysis of Evolutionary Stability of Funds Flows in Financial Networks YANG KE, Liu Weiji, Wu Hong and Yue Kun	15681 SS24: Computer Intelligence and Games Strange Evolution Behavior of 7-bit Binary String Strategies in Iterated Prisoner's Dilemma Game TAKAHIKO SUDO, Kazushi Goto, Yusuke Nojima and Hisao Ishibuchi	15205 F13: Intelligent Systems Applications Elite Bias Genetic Algorithm for Optimal Control of Double-skin Façade XINGTIAN XU and Xi Chen	15183 F19: Emerging Area QoS-aware long-term based service composition in cloud computing SHENGCAI LIU, Yufan Wei, Ke Tang, Kai Qin and Xin Yao	15238 SS06: Complex Systems Ensemble Centralities based Adaptive Artificial Bee Algorithm Magdalena Metlicka and DONALD DAVENDRA
15055 SS39: Smart Grid Implementation of Demand Response in Home Energy Management System Using Immune Clonal Selection Algorithm YING-YI HONG, Chao-Rong Chen and Hong-Wei Yang	15133 SS39: Smart Grid Stochastic Economic Dispatch with Solar Farm Integrated by Bacterial Swarm Algorithm M. S. Li, T. Y. Ji, Q. H. Wu and P. Z. Wu	15090 A11: Heuristics Introducing Crossover Low-level Heuristics into a Modified Choice Function Hyper-heuristic for Cross-domain Optimisation JOHN H. DRAKE, Ender Ozcan and Edmund K. Burke	15542 A11: Heuristics A Comparison of Crossover Control Mechanisms within Single-point Selection Hyper-heuristics using HyFlex JOHN H. DRAKE, Ender Ozcan and Edmund K. Burke	15559 C01: Numerical Optimization Football Game Algorithm: A New Metaheuristic Inspired from Human Teamwork Intelligence ELYAS FADAKAR
15128 D01: Constraint and Uncertainty Handling On Performance of Decomposition-based MOEAs in Noisy Environment QIN CHEN, Fu Cheng and Qingfu Zhang	15479 D03: Meta-modeling and Surrogate Models Robust Trajectory Optimization of Space Launch Vehicle Using Computational Intelligence ALI ASGHAR BATALEBLU and Jafar Roshanian			

May 27 Wednesday, 2015 at Small Conference Room 1 (on the first floor)	
We4-1F1 1650-1730	SS33: Evolutionary Computing Application in Hardware
Chaired by: TYRRELL ANDY M. AND SANYOU ZENG	
1650 hrs 15247 Two-Phase Multiobjective Genetic Algorithm for Constrained Circuit Clustering on FPGAs WANG YUAN, Walker James A., Bale Simon J., Trefzer Martin A. and Tyrrell Andy M.	1710 hrs 15285 A 2.45GHz Microstrip Patch Antenna Evolved For WIFI Application Zongchao Weng, Dayue Guo and SANYOU ZENG

May 27 Wednesday, 2015 at Small Conference Room 2 (on the first floor)		
We4-1F2 1650-1750	SS07: Fireworks Algorithms 2	
Chaired by: YING TAN AND SHI CHENG		
1650 hrs 15333 Towards a More Effective Mutation Operator in Fireworks Algorithm JUNZHI LI and Ying Tan	1710 hrs 15207 An Improved Fireworks Algorithm with Landscape Information for Balancing Exploration and Exploitation Junfeng Chen, Qiwen Yang, Jianjun Ni, Yingjuan Xie and SHI CHENG	1730 hrs 15294 Fireworks Algorithm for the Multi-satellite Control Resource Scheduling Problem ZHENBAO LIU, Zuren Feng and Liangjun Ke

May 27 Wednesday, 2015 at Small Conference Room 3 (on the first floor)	
We4-1F3 1650-1750	SS28: Fitness Landscape Analysis and Search Space Structure
Chaired by: HERNAN AGUIRRE, KIYOSHI TANAKA, OLIVER KRAMER, AND ROBERTO SANTANA	
1650 hrs 15195 Visualization of Evolutionary Runs with Isometric Mapping OLIVER KRAMER and Daniel Lueckehe	1710 hrs 15525 Evolving MNK-landscapes with structural constraints ROBERTO SANTANA, Alexander Mendiburu and Jose A. Lozano

May 27 Wednesday, 2015 at Small Conference Room 4 (on the second floor)		
We4-2F4 1650-1810	SS45: Complex Adaptive Systems 2	
Chaired by: SAORI INAGAWA, HIROSHI SATO AND KEIKI TAKADAMA		
1650 hrs 15314 Oscillator aggregation wheeled robot actively synchronizing with external environment SHO YAMAUCHI, Hidenori Kawamura and Keiji Suzuki	1710 hrs 15440 Application of Genetic Programming and Genetic Algorithm in Evolving Emotion Recognition Module RAHADIAN YUSUF, Ivan Tanev and Katsunori Shimohara	1730 hrs 15694 Ship Route Evolutionary Optimization of Multiple Ship Companies for Distributed Coordination of Resources KEIKI TAKADAMA, Eriko Azuma, Hiroyuki Sato, Takahiro Majima, Daisuke Watanabe and Mutujiro Katuhara

May 27 Wednesday, 2015 at Large Conference Room Tachibana (on the second floor)	
1650-1810	Poster Session

May 27 Wednesday, 2015 at Small Conference Room 6 (on the third floor)			
We4-3F6 1650-1810	Biometrics, Bioinformatics, and Biomedical Applications 2		
Chaired by: HELIO BARBOSA, AND RICHARD VEALE			
1650 hrs 15521 Using Grammar-based Genetic Programming to Determine Characteristics of Multiple Infections and Environmental Factors in the Development of Allergies and Asthma Rafael Veiga, Joao Marcos de Freitas, Heder Bernardino, HELIO BARBOSA and Neuza Alcatara-Neves	1710 hrs 15545 A New Evolutionary Gene Selection Technique ADRIAN LANCUCKI, Indrajit Saha and Piotr Lipinski	1730 hrs 15679 Applying Differential Evolution MCMC to Parameterize Large-scale Spiking Neural Simulations RICHARD VEALE, Tadashi Isa and Masatoshi Yoshida	1750 hrs 15680 A Multi-objective Evolutionary Approach to Predict Protein-Protein Interaction Network ARCHANA CHOWDHURY, Pratyusha Rakshit, Amit Konar and Atulya K Nagar

May 27 Wednesday, 2015 at Small Conference Room 7 (on the third floor)		
We4-3F7 1650-1750	Discrete and Combinatorial Optimization	
Chaired by: ROLF DORNBERGER AND KAZUHIRO OHKURA		
1650 hrs 15227 Analysis of Chaotic Maps Applied to Self-Organizing Maps for the Traveling Salesman Problem Remo Ryter, Michael Stauffer, Thomas Hanne and ROLF DORNBERGER	1710 hrs 15243 A Differential Evolution Algorithm with Local Search for Resource Investment Project Scheduling Problems Yanni Song, Jing Liu, Martin Wimmers and ZHONGZHOU JIANG	1730 hrs 15691 Evolutionary Approach to Sudoku Puzzles with Filtrated Mutations Zhiwen Wang, Toshiyuki Yasuda and KAZUHIRO OHKURA

May 27 Wednesday, 2015 at Small Conference Room 8 (on the third floor)			
We4-3F8 1650-1810	SS15: Engineering Applications of Hybrid Evolutionary Algorithms		
Chaired by: KALYANMOY DEB, EUGENE SEMENKIN, AND SHAOJUN LI			
1650 hrs 15544 Design Optimization of Artificial Lateral Line System under Uncertain Conditions Ali Ahrari, Hong Lei, Montassar Aidi Sharif, KALYANMOY DEB and Xiaobo Tan	1710 hrs 15636 Optimal Ship Design and Valuable Knowledge Discovery Under Uncertain Conditions Kalyanmoy Deb, ZHICHAO LU, Chris McKesson, Cherie C. Trumbach and Larry DeCan	1730 hrs 15635 Self-configuring hybrid evolutionary algorithm for fuzzy classification with active learning Vladimir Stanovov, EUGENE SEMENKIN and Olga Semenina	1750 hrs 15148 A new modified Alopex-based evolutionary algorithm and its application on parameter estimation Pengfei He and SHAOJUN LI

May 27 Wednesday, 2015 at Small Conference Room 9 (on the third floor)		
We4-3F9 1650-1750	SS01: Dynamic Multi-Objective Optimization	
Chaired by: MARDE HELBIG		
1650 hrs 15512 Immune Generalized Differential Evolution for Multiobjective Dynamic Optimization Problems MARIA-GUADALUPE MARTINEZ-PENALOZA and Efen Mezura-Montes	1710 hrs 15616 Influence of the Archive Size on the Performance of the Dynamic Vector Evaluated Particle Swarm Optimisation Algorithm solving Dynamic Multi-objective Optimisation Problems MARDE HELBIG and Andries Engelbrecht	1730 hrs 15643 Expected Hypervolume Improvement Algorithm for PID Controller Tuning and the Multiobjective Dynamical Control of a Biogas Plant KAIFENG YANG, Daniel Gaida, Thomas Bäck and Michael Emmerich

May 27 Wednesday, 2015 at Small Conference Room 10 (on the third floor)			
We4-3F10 1650-1810	SS23: CEC Black Box Optimization Benchmarking 2015 & SS22: Nature Inspired Constrained Optimization		
Chaired by: DIMO BROCKHOFF, HELIO BARBOSA, AND BILEL DERBEL			
1650 hrs 15380 Simultaneous Optimistic Optimization on the Noiseless BBOB Testbed BILEL DERBEL and Philippe Preux	1710 hrs 15533 Parameter Tuning for Differential Evolution for Cheap, Medium, and Expensive Computational Budgets RYOJI TANABE and Alex Fukunaga	1730 hrs 15639 Comparison of the MATSuMoTo Library for Expensive Optimization on the Noiseless Black-Box Optimization Benchmarking Testbed DIMO BROCKHOFF	1750 hrs 15505 A Novel Boundary Constraint-Handling Technique for Constrained Numerical Optimization Problems EFREN JUAREZ-CASTILLO, Nancy Perez-Castro and Efen Mezura-Montes

Thursday

May 28 Thursday, 2015 at Large Conference Room Tachibana (Large Hall) (on the second floor)	
Plenary IV 0830-0930	Keynote
Chaired by: OSCAR CORDON GARCIA	
Creativity in Evolutionary Arts	
Professor Tatsuo Unemi (Soka University, Japan)	

May 28 Thursday, 2015 at Small Conference Room 1 (on the first floor)		
Th1-1F1 0950-1150	Estimation of Distribution Algorithms	
Chaired by: JOSE A. LOZANO, JOHN MCCALL, AND ARTURO HERNANDEZ AGUIRRE		
0950 hrs 15330 Scale Adaptive Reproduction Operator for Decomposition based Estimation of Distribution Algorithm Bo WANG, Xu Hua and Yuan Yuan	1010 hrs 15443 Mixtures of Generalized Mallows Models for Solving the Quadratic Assignment Problem Josu Ceberio, Roberto Santana, Alexander Mendiburu and JOSE A. LOZANO	1030 hrs 15481 Clustering Molecular Dynamics Trajectories with a Univariate Estimation of Distribution Algorithm Rodrigo Barros, Christian Quevedo, Renata De Paris and MARCIO BASGALUPP
1050 hrs 15493 Structural Coherence of Problem and Algorithm: An Analysis for EDAs on all 2-bit and 3-bit Problems Alexander Brownlee, JOHN MCCALL and Lee Christie	1110 hrs 15514 Heavy tails with Parameter Adaptation in Random Projection based continuous EDA MOMODOU SANYANG and Ata Kaban	1130 hrs 15539 Designing the Boltzmann Estimation of Multivariate Normal Distribution: issues, goals and solutions Ignacio Segovia Dominguez, ARTURO HERNANDEZ AGUIRRE and Iwan Valdez Pena

May 28 Thursday, 2015 at Small Conference Room 2 (on the first floor)		
Th1-1F2 0950-1150	SS02: Evolutionary Computation for Music, Art & Creativity	
Chaired by: TING CHUAN-KANG, DANIEL ASHLOCK AND ROISIN LOUGHRAN		
0950 hrs 15492 Evolving Fractal Art with a Directed Acyclic Graph Genetic Programming Representation DANIEL ASHLOCK and Jeffrey Tsang	1010 hrs 15592 Music Pattern Mining for Chromosome Representation in Evolutionary Composition LIU CHIEN-HUNG and Ting Chuan-Kang	1030 hrs 15297 Artistic Image Processing with Cellular Automata and Evolutionary Algorithms HSUAN-WEN TSENG and Ying-ping Chen
1050 hrs 15224 Evolution of 2D Apoptotic Cellular Automata Jennifer Garner and DANIEL ASHLOCK	1110 hrs 15260 Tonality Driven Piano Compositions with Grammatical Evolution ROISIN LOUGHRAN, James McDermott and Michael O'Neill	

May 28 Thursday, 2015 at Small Conference Room 3 (on the first floor)		
Th1-1F3 0950-1150	SS41: Evolutionary Computation in Architectural Design 1	
Chaired by: M. FATIH TASGETIREN, OZER CIFTCIOGLU, P. N. SUGANTHAN, AND OMER OZTURKOGU		
0950 hrs 15075 Investigating The Robustness Of Aisles in A Non-Traditional Unit-Load Warehouse Design: Leverage OMER OZTURKOGU	1010 hrs 15159 Time-Cost Optimization at the Conceptual Design Stage Using Differential Evolution: Case of Single Family Housing Projects in Germany ONUR DURSUN, Berk Ekici and Sevil Sariyildiz	1030 hrs 15394 Conceptual Airport Terminal Design using Evolutionary Computation IOANNIS CHATZIKONSTANTINOU, Sevil Sariyildiz and Michael Bittermann
1050 hrs 15396 Addressing the High-Rise Form Finding Problem by Evolutionary Computation BERK EKICI, Seckin Kutucu, I. Sevil Sariyildiz and M. Fatih Tasgetiren	1110 hrs 15409 Designing Self-Sufficient Floating Neighborhoods Using Computational Decision Support AYCA KIRIMTAT, Ioannis Chatzikonstantinou, Sevil Sariyildiz and Ayca Tartar	1130 hrs 15666 Sports Building Envelope Optimization Using Multi-objective MDO DING YANG, Michela Turrin, Sevil Sariyildiz and Yimin Sun

May 28 Thursday, 2015 at Small Conference Room 4 (on the second floor)		
Th1-2F4 0950-1150		SS38: Imbalanced Data Analysis and Medical/Healthcare Applications 1
Chaired by: SETSUO TSURUTA, MIHO OSAKI, MOTOKI SAKAI, KENTARO KURASHIGE		
0950 hrs 15092 Formulation of the Kernel Logistic Regression based on the Confusion Matrix Miho Ohsaki, Kenji Matsuda, PENG WANG, Shigeru Katagiri and Hideyuki Watanabe	1010 hrs 15219 A Case Study on Analysis of Vocal Frequency to Estimate Blood Pressure MOTOKI SAKAI	1030 hrs 15331 Teaching a series of actions by the universal evaluations of each sensory information KENTAROU KURASHIGE and Kaoru Nikaïdo
1050 hrs 15623 Toward Behavioral Business Process Analysis ERNESTO DAMIANI, Gabriele Gianini and Marcello Leida	1110 hrs 15676 Tweet Credibility Analysis Evaluation by Improving Sentimental Dictionary Takashi Kawabe, Yoshimi Namihira, Kouta Suzuki, MUNEHIRO NARA, Yoshitaka Sakurai, Setsuo Tsuruta and Knauf Rainer	

May 28 Thursday, 2015 at Small Conference Room 5 (on the second floor)		
Th1-2F5 0950-1150		SS37: Evolutionary Feature Selection and Construction & SS13: Evolutionary Computer Vision 1
Chaired by: BING XUE, MENGJIE ZHANG, EUGENE SEMENKIN, YAOCHU JIN, AND OSCAR CORDON		
0950 hrs 15225 Impact of Imputation of Missing Values on Genetic Programming based Multiple Feature Construction for Classification Cao Truong Tran, PETER ANDREAE and MENGJIE ZHANG	1010 hrs 15345 Evolutionary Feature Selection for Emotion Recognition in Multilingual Speech Analysis Christina Brester, EUGENE SEMENKIN, Maxim Sidorov, Igor Kovalev and Pavel Zelenkov	1030 hrs 15469 Trade-off Between Computational Complexity and Accuracy in Evolutionary Image Feature Extraction Wissam Albukhanajer, YAOCHU JIN and Johann Briffa
1050 hrs 15564 A Multi-Objective ABC Approach to Feature Selection using Fuzzy Mutual Information Emrah Hancer, BING XUE, Mengjie Zhang, Dervis Karaboga and Bahriye Akay	1110hrs 15576 Particle Swarm Optimisation for Feature Selection: A Hybrid Filter-Wrapper Approach Tony Butler-Yeoman, BING XUE and Mengjie Zhang	1130hrs 15002 Bacterial Foraging Optimization For Intensity-based Medical Image Registration Enrique Bermejo, Andrea Valsecchi, Sergio Damas and OSCAR CORDON

May 28 Thursday, 2015 at Small Conference Room 6 (on the third floor)		
Th1-3F6 0950-1150		Finance and Economics
Chaired by: GARNETT WILSON, ANTHONY BRABAZON, AND AHMET MURAT OZBAYOGLU		
0950 hrs 15102 Hybrid Meta-Heuristic Applied to Investments Prioritization Under Budget Uncertainty JEROME LONCHAMPT	1010 hrs 15174 Better Trade Exits for Foreign Exchange Currency Trading using FXGP Alexander Loginov, GARNETT WILSON and Malcolm Heywood	1030 hrs 15313 A Hybrid Genetic Algorithm for a Two-Stage Stochastic Portfolio Optimization With Uncertain Asset Prices TIANXIANG CUI, Ruibin Bai, Andrew Parkes, Rong Qu, Fang He and Jingpeng Li
1050 hrs 15436 Developing a Two Level Options Trading Strategy Based on Option Pair Optimization of Spread Strategies with Evolutionary Algorithms Ilknur Ucar, AHMET MURAT OZBAYOGLU and Mustafa Ucar	1110 hrs	1130 hrs

May 28 Thursday, 2015 at Small Conference Room 7 (on the third floor)		
Th1-3F7 0950-1150	Numerical Optimization	
Chaired by: HIDEYUKI TAKAGI		
0950 hrs 15115 An Opposition-Based Hybrid Artificial Bee Colony with Differential Evolution CHUKIAT WORASUCHEEP	1010 hrs 15237 Analytical Estimation of the Convergence Point of Populations Noboru Murata, Ryuei Nishii, HIDEYUKI TAKAGI and Yan Pei	1030 hrs 15369 Application of Metaheuristic Algorithms in Nano-process Parameter Optimization NORLINA MOHD SABRI, Nor Diyana Md Sin, Mazidah Puteh and Mohamad Rusop Mahmood
1050 hrs 15541 Solving the Ambulance Location Problem in Tijuana-Mexico using Mixed Integer Programming SERGIO MORALES, Oliver Schutze, Carlos Vera, Leonardo Trujillo and Yazmin Maldonado	1110 hrs 15690 On Increasing Computational Efficiency of Evolutionary Algorithms Applied to Large Optimization Problems MACIEJ GLOWACKI and Janusz Orkisz	

May 28 Thursday, 2015 at Small Conference Room 8 (on the third floor)		
Th1-3F8 0950-1150	SS51: Evolutionary Computation in Operations Research, Management Science and Decision Making	
Chaired by: WEI-CHANG YEH, YEW SOON ONG, WEI SHANG-CHIA, STEPHANUS DANIEL HANDOKO, YUNZHI JIANG		
0950 hrs 15156 Learning of Hierarchical Fuzzy Aggregative Network Using Simplified Swarm Optimization WEI SHANG-CHIA, Yen Tso-Jung and Yeh Wei-Chang	1010 hrs 15346 Solving Multi-vehicle Profitable Tour Problem via Knowledge Adoption in Evolutionary Bi-level Programming STEPHANUS DANIEL HANDOKO, Abhishek Gupta, Chen Kim Heng, Hoong Chuiin Lau, Yew Soon Ong and Puay Siew Tan	1030 hrs 15368 Solving a Multi-Level Capacitated Lot Sizing Problem with Random Demand via a Fix-and-Optimize Heuristic LIUXI LI, Shiji Song and Cheng Wu
1050 hrs 15555 Multi-Threshold Image Segmentation Using Histogram Thresholding-Bayesian Honey Bee Mating Algorithm YUNZHI JIANG and Chia-Ling Huang	1110 hrs 15579 A Categorized Particle Swarm Optimization for Object Tracking FENG SHA and XiMeng Zhao	1130 hrs 15656 Predicting protein docking poses on a solid surface by particle swarm optimization JIMMY C. F. NGAI, Pui-In Mak and Shirley W. I. Siu

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)		
Th1-3F9 0950-1150	SS03: Many-Objective Optimization	
Chaired by: HIROYUKI SATO, ANTONIO LOPEZ-JAIMES, SAUL ZAPOTECAS-MARTINEZ, AND HUI MA,		
0950 hrs 15546 A Ranking Method Based on Two Preference Criteria: Chebyshev Function and epsilon-Indicator ANTONIO LOPEZ-JAIMES, Akira Oyama and Kozo Fujii	1010 hrs 15558 On the Low-Discrepancy Sequences and their Use in MOEA/D for High-Dimensional Objective Spaces SAUL ZAPOTECAS-MARTINEZ, Hernan Aguirre, Kiyoshi Tanaka and Carlos A. Coello Coello	1030 hrs 15578 F-MOGP: A Novel Many-Objective Evolutionary Approach to QoS-Aware Data Intensive Web Service Composition Yang Yu, HUI MA and Mengjie Zhang
1050 hrs 15580 A New Non-Redundant Objective Set Generation Algorithm in Many-Objective Optimization Problems XIAOFANG GUO, Yuping Wang, Xiaoli Wang and Jingxuan Wei	1110 hrs 15653 Comparing Solution Sets of Different Size in Evolutionary Many-Objective Optimization Hisao Ishibuchi, HIROYUKI MASUDA and Yusuke Nojima	1130 hrs 15621 MOEA/D Using Constant-Distance Based Neighbors Designed for Many-Objective Optimization HIROYUKI SATO

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Th1-3F10 0950-1150		SS52: New Directions in Evolutionary Machine Learning 1
Chaired by: KEIKI TAKADAMA, TIM KOVACS, YUSUKE NOJIMA, MASAYA NAKATA, SATOSHI ONO, CHUN-HAO CHEN, AND BERNARD DE BAETS		
0950 hrs 15221 Novelty-Organizing Team of Classifiers in Noisy and Dynamic Environments DANILO VASCONCELLOS VARGAS, Hirotaka Takano and Junichi Murata	1010 hrs 15231 Evolutionary Multi-objective Distance Metric Learning for Multi-label Clustering Taishi Megano, Ken-ichi Fukui, Masayuki Numao and SATOSHI ONO	1030 hrs 15403 A Sensor Tagging Approach For Reusing Building Blocks of Knowledge in Learning Classifier Systems LIANG-YU CHEN, Po-Ming Lee and Tzu-Chien Hsiao
1050 hrs 15452 A GA-based Approach for Mining Membership Functions and Concept-Drift Patterns CHUN-HAO CHEN, Yu Li, Tzung-Pei Hong, Yan-Kang Li and Eric Hsueh-Chan Lu	1010 hrs 15483 An evolutionary approach to the identification of Cellular Automata based on partial observations Witold Bolt, Jan M. Baetens and BERNARD DE BAETS	1130 hrs 15516 Handling Different Level of Unstable Reward Environment Through an Estimation of Reward Distribution in XCS TAKATO TATSUMI, Takahiro Komine, Hiroyuki Sato and Keiki Takadama

May 28 Thursday, 2015 at Small Conference Room 1 (on the first floor)		
Th2-1F1 1300-1400		Evolution Strategies
Chaired by: MICHAEL COUCEIRO, JAMES MONTGOMERY, AND CHRISTIAN DARABOS		
1300 hrs 15074 Towards a Predictive Model of an Evolutionary Swarm Robotics Algorithm MICHAEL COUCEIRO, Rocha Rui and Martins Fernando	1320 hrs 15267 Evolution Strategies with Threshold Convergence Alejandro Piedad-Morffis, Sullan Estevez-Velarde, Antonio Bolufe-Rohler, JAMES MONTGOMERY and Stephen Chen	1340 hrs 15519 Critical Properties of Cellular Automata with Evolving Network Topologies CHRISTIAN DARABOS and Jason H. Moore

May 28 Thursday, 2015 at Small Conference Room 2 (on the first floor)			
Th2-1F2 1300-1420		SS40: Evolutionary Computation with Human Factors 1	
Chaired by: YAN PEI, HIDEYUKI TAKAGI, PIERRE-ALAIN FAYOLLE, MOHAMED ABOU-ZLEIKHA, MAKOTO FUKUMOTO, AND SEBASTIAN RISI			
1300 hrs 15051 User-assisted reverse modeling with evolutionary algorithms PIERRE-ALAIN FAYOLLE and Alexander Pasko	1320 hrs 15241 Preference Learning with Evolutionary-Based Multivariate Adaptive Regression Spline Model MOHAMED ABOU-ZLEIKHA, Noor Shaker and Mads Graesboll Christensen	1340 hrs 15388 Interactive Differential Evolution Using Time Information Required for User's Selection: In A Case of Optimizing Fragrance Composition MAKOTO FUKUMOTO, Shimpei Koga, Makoto Inoue and Jun-ichi Imai	1400 hrs 15491 BrainCrafter: An Investigation Into Human Neural Network Engineering Jan Piskur, Peter Greve, Julian Togelius and SEBASTIAN RISI

May 28 Thursday, 2015 at Small Conference Room 3 (on the first floor)		
Th2-1F3 1300-1400		SS41: Evolutionary Computation in Architectural Design 2
Chaired by: M. FATIH TASGETIREN, MICHAEL S. BITTERMANN, OZER CIFTCIOGLU AND P. N. SUGANTHAN		
1300 hrs 15395 Evolutionary Computation for Architectural Design of Restaurant Layouts CEMRE UGURLU, Ioannis Chatzikonstantinou, Sevil Sariyildiz and M. Fatih Tasgetiren	1320 hrs 15432 Architectural Design Computing Supported by Multi-Objective Optimization MICHAEL S. BITTERMANN and Ciftcioglu Ozer	1340 hrs 15439 Architectural Design by Cognitive Computing OZER CIFTCIOGLU and Michael S. Bittermann

May 28 Thursday, 2015 at Small Conference Room 4 (on the second floor)		
Th2-2F4 1300-1400		SS38: Imbalanced Data Analysis and Medical/Healthcare Applications 2
Chaired by: SETSUO TSURUTA AND TOMOHARU NAKASHIMA		
1300 hrs 15560 Strategies for Addressing Class Imbalance in Ensemble Classification of Thermography Breast Cancer Features Gerald Schaefer and TOMOHARU NAKASHIMA	1320 hrs 15677 Case Based Human Oriented Delivery Route Optimization Takashi Kawabe, YUUTA KOBAYASHI, Setsuo Tsuruta, Yoshitaka Sakurai and Rainer Knauf	

May 28 Thursday, 2015 at Small Conference Room 5 (on the second floor)			
Th2-2F5 1300-1400		SS13: Evolutionary Computer Vision 2	
Chaired by: MENGJIE ZHANG AND ALEXANDROS AGAPITOS			
1300 hrs 15476 A Hybrid Genetic Algorithm for Image Denoising JONATAS DE PAIVA, Claudio Toledo and Helio Pedrini	1320 hrs 15801 Deep Evolution of Feature Representations for Handwritten Digit Recognition ALEXANDROS AGAPITOS, Michael O'Neill, Miguel Nicolau, David Fagan, Ahmed Kattan and Kathleen Curran	1340 hrs 15390 Image Descriptor: A Genetic Programming Approach to Multiclass Texture Classification HARITH AL-SAHAF, Mengjie Zhang, Mark Johnston and Brijesh Verma	1645 hrs 15398 Genetic Programming for Algae Detection in River Images Andrew Lensen, HARITH AL-SAHAF, Mengjie Zhang and Brijesh Verma

May 28 Thursday, 2015 at Small Conference Room 6 (on the third floor)			
Th2-3F6 1300-1400		SS44: Probabilistic Optimization: Extended Theory and Application 1	
Chaired by: NAOKI MORI AND KIYOHARU TAGAWA			
1300 hrs 15100 Memetic Differential Evolutions Using Adaptive Golden Section Search and Their Concurrent Implementation Techniques KIYOHARU TAGAWA, Hirokazu Takeuchi and Atsushi Kodama	1320 hrs 15309 Particle Filter with Extrapolation by Crossover for Nonlinear State Estimation TAKU SASAKI and Isao Ono	1340 hrs 15378 Analyzing Exploration Exploitation Trade-off by means of P-I Similarity Index and Dictyostelium based Genetic Algorithm Kazuyuki Inoue, TAKU HASEGAWA, Naoki Mori and Keinosuke Matsumoto	

May 28 Thursday, 2015 at Small Conference Room 7 (on the third floor)			
Th2-3F7 1300-1400		SS25: Recent Advances in Evolutionary Algorithms as Nonlinear Dynamical Systems 1	
Chaired by: TOSHIHARU HATANAKA, HIDEHIRO NAKANO AND KENYA JIN'NO			
1300 hrs 15264 Analysis of the Dynamic Characteristics of Firefly Algorithm TAKUYA SHINDO, Jianze Xiao, Takuya Kurihara, Kazuya Morita and Kenya Jin'no	1320 hrs 15341 Population-based Optimization Having Deterministic and Discrete Dynamics YUYA KURITA and Tadashi Tsubone	1340 hrs 15617 An Artificial Bee Colony Algorithm with a Memory Scheme for Dynamic Optimization Problems HIDEHIRO NAKANO, Masataka Kojima and Arata Miyauchi	

May 28 Thursday, 2015 at Small Conference Room 8 (on the third floor)			
Th2-3F8 1300-1400		SS11: Evolutionary Computation in Planning and Scheduling 1	
Chaired by: KAY CHEN TAN, MENGJIE ZHANG, AND XIAODONG LI			
1300 hrs 15200 Heuristic Evolution with Genetic Programming for Traveling Thief Problem Mei Yi, LI XIAODONG, Salim Flora and Yao Xin	1320 hrs 15276 Memetic Algorithm for solving Resource Constrained Project Scheduling Problems ISMAIL ALI, Saber Elsayed, Tapabrata Ray and Ruhul Sarker	1340 hrs 15303 A Novel Block-shifting Simulated Annealing Algorithm for the No-wait Flowshop Scheduling Problem JIAN-YA DING, Shiji Song, Rui Zhang, Siwei Zhou and Cheng Wu	

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)			
Th2-3F9 1400-1500		SS16: Evolutionary Multi-Objective Optimization 1	
Chaired by: SANAZ MOSTAGHIM AND KALYANMOY DEB			
1300 hrs 15190 Properties of Scalable Distance Minimization Problems using the Manhattan Metric HEINER ZILLE and Sanaz Mostaghim	1320 hrs 15320 A Classification and Pareto Domination based Multiobjective Evolutionary Algorithm Jinyuan Zhang, AIMIN ZHOU and Guixu Zhang	1340 hrs 15358 Sensitivity Analysis of Penalty-based Boundary Intersection on Aggregation-based EMO Algorithms ASAD MOHAMMADI, Mohammad Nabi Omidvar, Xiaodong Li and Kalyanmoy Deb	

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)		
Th2-3F10 1300-1400	SS52: New Directions in Evolutionary Machine Learning 2	
Chaired by: KEIKI TAKADAMA, TIM KOVACS, HIROYASU TOMOYUKI, YUSUKE NOJIMA AND MASAYA NAKATA		
1300 hrs 15548 Detecting Shoplifting From Customer Behavior Data by Extended XCS-SL: Towards Feature Extraction on Class-Imbalanced Sequence Data MINATO SATO, Kotaro Usui, Masaya Nakata and Keiki Takadama	1320 hrs 15569 A Feature Transformation Method using Multiobjective Genetic Programming for Two-Class Classification HIROYASU TOMOYUKI, Shiraishi Toshihide, Yoshida Tomoya and Yamamoto Utako	1340 hrs 15689 Effects of Heuristic Rule Generation from Multiple Patterns in Multiobjective Fuzzy Genetics-Based Machine Learning YUSUKE NOJIMA, Kazuhiro Watanabe and Hisao Ishibuchi

May 28 Thursday, 2015 at Small Conference Room 1 (on the first floor)		
Th3-1F1 1415-1515	Hardware & Software	
Chaired by: HUI MA, MAXIM BUZDALOV AND XIN DU		
1415 hrs 15070 A GP Approach to QoS-Aware Web Service Composition including Conditional Constraints Alexandre Sawczuk da Silva, Hui Ma and Mengjie Zhang	1435 hrs 15271 Hard Test Generation for Augmenting Path Maximum Flow Algorithms using Genetic Algorithms: Revisited MAXIM BUZDALOV and Anatoly Shalyto	1455 hrs 15435 An Evolutionary Algorithm for Performance Optimization at Software Architecture Level XIN DU, Youcong Ni and Peng Ye

May 28 Thursday, 2015 at Small Conference Room 2 (on the first floor)		
Th3-1F2 1425-1525	SS40: Evolutionary Computation with Human Factors 2	
Chaired by: YAN PEI, HIDEYUKI TAKAGI, SATOSHI ONO, AND MISATO TANAKA		
1425 hrs 15641 Suggestion-based Interactive Video Digest Design by User-System Cooperative Evolution Hiroshi Nakamura and SATOSHI ONO	1445 hrs 15179 Local Information of Fitness Landscape Obtained by Paired Comparison-Based Memetic Search for Interactive Differential Evolution YAN PEI and Hideyuki Takagi	1505 hrs 15399 Discussion on interactive Genetic Algorithm with brain activation measured by functional Magnetic Resonance Imaging MISATO TANAKA, Mitsunori Miki, Utako Yamamoto and Tomoyuki Hiroyasu

May 28 Thursday, 2015 at Small Conference Room 3 (on the first floor)		
Th3-1F3 1415-1515	SS41: Evolutionary Computation in Architectural Design 3	
Chaired by: M. FATIH TASGETIREN, OZER CIFTCIOGLU, AND P. N. SUGANTHAN		
1415 hrs 15402 Identification of Sustainable Designs for Floating Settlements Using Computational Design Techniques CEMRE UGURLU, Ioannis Chatzikonstantinou, Sevil Sariyildiz and M. Fatih Tasgetiren	1435 hrs 15442 Multi-Objective Diagrid Facade Optimization Using Differential Evolution IOANNIS CHATZIKONSTANTINOU, Berk Ekici, I. Sevil Sariyildiz and Basak Kundakci Koyunbaba	1455 hrs 15575 Fuzzy Neural Tree in Evolutionary Computation for Architectural Design Cognition OZER CIFTCIOGLU and Michael S. Bittermann

May 28 Thursday, 2015 at Small Conference Room 4 (on the second floor)		
Th3-2F4 1415-1515	SS56: Computational Intelligence in Bioinformatics	
Chaired by: STEVEN CORNS, MARCO NOBILE, WENDY ASHLOCK		
1415 hrs 15222 A Double Swarm Methodology for the Parameter Estimation of Oscillating Gene Regulatory Networks MARCO NOBILE and Hitoshi Iba	1435 hrs 15513 Evolving Side Effect Machines To Measure Distances Between DNA Promoter Sequences WENDY ASHLOCK	1455 hrs 15671 A New Model for Gene Regulatory Network Inference using Michaelis-Menten Kinetics AHAMMED SHERIEF KIZHAKKETHIL YOUSEPH, Madhu Chetty and Gour Karmakar

May 28 Thursday, 2015 at Small Conference Room 5 (on the second floor)			
Th3-2F5 1425-1545		SS55: Social Simulation & SS46: Application Specific Evolutionary Computation	
Chaired by: TADAHIKO MURATA, SABER ELSAYED, AND TEIJIRO ISOKAWA			
1425 hrs 15001 Designing Simulated Annealing and Evolutionary Algorithm for Estimating Attributes of Residents from Statistics Tadahiko Murata and DAIKI MASUI	1445 hrs 15453 Selecting multiple network spreaders based on community structure using two-phase evolutionary framework YU-HSIANG FU, Chung-Yuan Huang and Chuen-Tsai Sun	1505 hrs 15006 Evaluating the Performance of A Differential Evolution Algorithm in Anomaly Detection SABER ELSAYED, Ruhul Sarker and Jill Slay	1525 hrs 15668 Performances in GA-based Menu Production for Hospital Meals TEIJIRO ISOKAWA and Nobuyuki Matsui

May 28 Thursday, 2015 at Small Conference Room 6 (on the third floor)			
Th3-3F6 1415-1515		SS44: Probabilistic Optimization: Extended Theory and Application 2	
Chaired by: NAOKI MORI AND YUKIKO ORITO			
1415 hrs 15417 Visualization of Pareto optimal solutions using MIGSOM NAOTO SUZUKI, Takashi Okamoto and Seiichi Koakutsu	1435 hrs 15427 Search Dynamics of Fitness Landscape Learning Evolutionary Computation with Two Types of Evolution Control Taku Hasegawa, KENTO TSUKADA, Naoki Mori and Keinosuke Matsumoto	1455 hrs 15567 Equality Constraint-handling Technique with Various Mapping Points: The Case of Portfolio Replication Problem YUKIKO ORITO and Yoshiko Hanada	

May 28 Thursday, 2015 at Small Conference Room 7 (on the third floor)			
Th3-3F7 1415-1515		SS25: Recent Advances in Evolutionary Algorithms as Nonlinear Dynamical Systems 2	
Chaired by: TOSHIHARU HATANAKA, HIDEHIRO NAKANO, KENYA JIN'NO AND HARUNA MATSUSHITA			
1415 hrs 15407 A Basic Consideration of an Optimizer Based on Piecewise Rotational Chaos System YOSHIKAZU YAMANAKA and Tadashi Tsubone	1435 hrs 15551 Firefly Algorithm with Dynamically Changing Connections HARUNA MATSUSHITA	1455 hrs 15554 Levy flight PSO YOSUKE HARIYA, Takuya Kurihara, Takuya Shindo and Kenya Jin'no	

May 28 Thursday, 2015 at Small Conference Room 8 (on the third floor)			
Th3-3F8 1415-1515		SS11: Evolutionary Computation in Planning and Scheduling 2	
Chaired by: KAY CHEN TAN, MENGJIE ZHANG AND XIAOLI WANG			
1415 hrs 15550 A New Model and Genetic Algorithm for Multi-Installment Divisible-Load Scheduling XIAOLI WANG, Yuping Wang, Zhen Wei and Jingxuan Wei	1435 hrs 15585 Enhancing Genetic Programming based Hyper-Heuristics for Dynamic Multi-objective Job Shop Scheduling Problems Su Nguyen, ZHANG MENGJIE and Kay Chen Tan	1455 hrs 15588 A Populated Local Search with Differential Evolution for Blocking Flowshop Scheduling Problem M. Fatih Tasgetiren, Quan-Ke Pan, Gursel Suer and DAMLA KIZILAY	

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)			
Th3-3F9 1415-1515		SS16: Evolutionary Multi-Objective Optimization 2	
Chaired by: SANAZ MOSTAGHIM AND KALYANMOY DEB			
1415 hrs 15562 Towards an Automated Innovization Method for Handling Discrete Search Spaces ABHINAV GAUR and Kalyanmoy Deb	1435s 15605 Reference Point based Distributed Computing for Multiobjective Optimization OKKES TOLGA ALTINOZ and Kalyanmoy Deb	1455 hrs 15609 Effect of Selection Operator on NSGA-III in Single, Multi, and Many-Objective Optimization Haitham Seada and KALYANMOY DEB	

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)			
Th3-3F10 1415-1535		SS52: New Directions in Evolutionary Machine Learning 3	
Chaired by: KEIKI TAKADAMA, TIM KOVACS, YUSUKE NOJIMA, AND MASAYA NAKATA			
1415 hrs 15652 Emotion inspired adaptive robotic path planning HENRY WILLIAMS, Christopher Lee-Johnson, Will Browne and Dale Carnegie	1435 hrs 15661 How Should Learning Classifier Systems Cover A State-Action Space? MASAYA NAKATA, Pier Luca Lanzi, Tim Kovacs, Will Neil Browne and Keiki Takadama	1455 hrs 15665 TP-XCS: An XCS Classifier System with Fixed-length Memory for Reinforcement Learning Thomas Pickering and TIM KOVACS	

May 28 Thursday, 2015 at Small Conference Room 6 (on the third floor)			
Th4-3F6 1545-1705		SS44 Probabilistic Optimization: Extended Theory and Application 3 & SS31: Theoretical Foundations of Bio-Inspired Computation	
Chaired by: NAOKI MORI, SHINYA WATANABE, MAKOTO FUKUMOTO, AND YANG YU			
1545 hrs 15583 A Proposal on a Decomposition-Based Evolutionary Multiobjective Optimization for Large Scale Vehicle Routing Problems SHINYA WATANABE, Masashi Ito and Kazutoshi Sakakibara	1605 hrs 15678 Investigation of Efficiency of Manipulation in Interactive Tabu Search for Optimizing Fragrance Composition MAKOTO FUKUMOTO and Shimpei Koga	1625 hrs 15175 An Evolving Trust Paradigm for Enforcing Computing System Security ORHIO MARK CREADO, Phu Dung Le, Jan Newmarch and Jeff Tan	1645 hrs 15456 Running Time Analysis: Convergence-based Analysis Reduces to Switch Analysis YANG YU and Chao Qian

May 28 Thursday, 2015 at Small Conference Room 7 (on the third floor)			
Th4-3F7 1545-1645		SS25 Recent Advances in Evolutionary Algorithms as Nonlinear Dynamical Systems 3 & SS26: Evolutionary Computation for Nonlinear Equation Systems	
Chaired by: TOSHIHARU HATANAKA, HIDEHIRO NAKANO, KENYA JIN'NO, YONG WANG AND CRINA GROSAN			
1545 hrs 15602 A Study on Multi-objective Particle Swarm Model by Personal Archives with Regular Graph Takeshi Uchitane and TOSHIHARU HATANAKA	1605 hrs 15290 Nonlinear Equation Systems Solved by many-objective Hype SHA QIN, Sanyou Zeng and Wei Dong	1625 hrs 15515 A Collection of Challenging Systems of Equations in Science, Engineering and Economics Dhagash Mehta and CRINA GROSAN	

May 28 Thursday, 2015 at Small Conference Room 8 (on the third floor)			
Th4-3F8 1545-1705		SS11: Evolutionary Computation in Planning and Scheduling 3	
Chaired by: KAY CHEN TAN, MENGJIE ZHANG, M. FATIH TASGETIREN AND ANDY SONG			
1545 hrs 15589 A Differential Evolution Algorithm with Variable Neighborhood Search for Multidimensional Knapsack Problem M. FATIH TASGETIREN, Quan-Ke Pan, Gursel Suer and Damla Kizilay	1605 hrs 15604 A Restricted Neighbourhood Tabu Search for Storage Location Assignment Problem Jing Xie, Yi Mei, Andreas Ernst, Xiaodong Li and ANDY SONG	1625 hrs 15626 Ant Based Solver for Dynamic Vehicle Routing Problem with Time Windows and Multiple Priorities ZHIWEI YANG, Michael Emmerich and Thomas Bäck	1645 hrs 15645 Towards Robustness Optimization of Complex Networks XIAOKE ZHANG, Cuiying Duan, Michael Emmerich and Thomas Bäck

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 1 (on the third floor)			
Th4-3F9 1530-1710		SS12: Constraint Handling in Multi-Objective Optimization	
Chaired by: MINAMI MIYAKAWA, CARLOS A. C. COELLO, KALYANMOY DEB, AND HISAO ISHIBUCHI			
1630 hrs 15289 Constrained Optimization Problem Solved by Dynamic Constrained NSGA-III Multiobjective Optimizational Techniques Xi Li, Sanyou Zeng, Sha Qin and Kunqi Liu	1650 hrs 15614 Directed Mating Using Inverted PBI Function for Constrained Multi-Objective Optimization MINAMI MIYAKAWA, Keiki Takadama and Hiroyuki Sato		

May 28 Thursday, 2015 at Medium Conference Room Shirakashi 2 (on the third floor)			
Th4-3F10 1530-1610		SS52: New Directions in Evolutionary Machine Learning 4	
Chaired by: KEIKI TAKADAMA, TIM KOVACS, YUSUKE NOJIMA, MASAYA NAKATA, AND HITOSHI IIMA			
1530 hrs 15672 Swarm Reinforcement Learning Methods Improving Certainty of Learning for a Multi-Robot Formation Problem HITOSHI IIMA and Yasuaki Kuroe	1550 hrs 15693 Extracting Both Generalized and Specialized Knowledge by XCS using Attribute Tracking and Feedback KEIKI TAKADAMA and Masaya Nakata		