

# Program of IES2010

November 19, 2010 (Fri)

8:00   8:55	Registration (The Front of Confererence Room)
8:55   9:00	Opening Remarks: Akira Namatame (Conference Room)
9:00   11:00	<b>Session1: Network and Intelligence</b> Chair: Keiki Takadama (Conference Room) Quantifying Plural Corresponding Community in Bipartite Graphs <div>Keiu Harada, Ikuo Suzuki, Masahito Yamamoto and Masashi Furukawa</div> Visualizing Complex Network by Use of Local Energy Minimization <div>Masashi Furukawa, Ryota Shigeo, Ikuo Suzuki, Masahito Yamamoto and Michiko Watanabe</div> A New Cellular Automaton Model Reproduce Kerner's Three-phase Theory by Decelerating Damping Effect <div>Satoshi Kokubo, Jun Tanimoto and Aya Hagishima</div> A New Cellular Automaton Model for Lane Changing for Accurate Analysis on Traffic-flow <div>Shinji Kukida, Jun Tanimoto and Aya Hagishima</div> Multi-scaled Adaptability in Motility and Pattern Formation of the Physarum Plasmodium <div>Tomohiro Shirakawa, Kan Yokoyama, Masaki Yamachiyo, Yukio-Pegio Gunji and Yoshihiro Miyake</div> Implementation Method of Genetic Algorithms to CUDA Environment using Data Parallelization <div>Masashi Oiso, Yoshiyuki Matsumura, Toshiyuki Yasuda and Kazuhiro Ohkura</div>
11:00   11:20	Coffee Break
11:20   13:00	<b>Session2: Learning</b> Chair: Hisashi Handa (Conference Room) Pittsburgh-style Learning Classifier System for Multiple Environments: Towards Robust Waterbus Route for Several Situations <div>Keiji Sato and Keiki Takadama</div> Cartesian Genetic Programming with Reusable Genes <div>Akira Hara, Kotaro Muraoka, Takumi Ichimura and Tetsuyuki Takahama</div> Conflict Avoidance using Information Entropy in Multi-Agent Learning Environment <div>Yoshihiro Ichikawa, Kiyohiko Hattori and Keiki Takadama</div> Neuroevolution with Manifold Learning for Playing Mario <div>Hisashi Handa</div> Rotation Effect of Training Data Subsets in Parallel Distributed Fuzzy Genetics-based Machine Learning <div>Yusuke Nojima, Shingo Mihara and Hisao Ishibuchi</div>
13:00   13:55	Lunch Break
13:55   14:55	<b>Session3: Sensor</b> Chair: Keiji Suzuki (Conference Room) Neural Network based Estimation of Crowd Behavior using ZigBee's RSSI in Indoor Space <div>Masaya Arai, Hidenori Kawamura and Keiji Suzuki</div> A System for Dynamic Learning of Scene Description <div>Matthias Mueller, Kousuke Sekiyama, Toshio Fukuda and Paul Levi</div> Motion Novelty Scoring for Interest Region Selection <div>Mark Silberberger, Kousuke Sekiyama, Toshio Fukuda and Paul Levi</div>
14:55   15:10	Coffee Break
15:10   16:50	<b>Session4: Economics and Finance</b> Chair:Aki-Hiro Sato (Conference Room) Two-Step Genetic Algorithm Procedures for Facility Rearrangement Planning with Cost Constraint <div>Atsushi Suzuki and Hisashi Yamamoto</div> \$\varepsilon\$ Constrained Differential Evolution for Economic Dispatch with Valve-point Effect <div>Nasimul Noman and Hitoshi Iba</div> Parameter Estimation Methods of a Multiplicative Stochastic Process for the Analysis of Financial Time Series: An Application to Inference of Tail-risks <div>Aki-Hiro Sato, Jaba Ghonghadze, Tae-Seok Jang, Friedrich Wagner and Thomas Lux</div> Proposing Asset Selection Model by Multivariate Statistics Based on Management Indices <div>Tomokazu Sasaki, Yukiko Orito, Hisashi Yamamoto and Yasushi Kambayashi</div> Dynamic Asset Selection by Using Mathematical Properties of Information Ratio <div>Toru Kurazumi, Yukiko Orito, Hisashi Yamamoto and Yasuhiro Tsujimura</div>
16:50   17:00	Break
17:00   18:00	<b>Keynote Speech (Conference Room)</b> Chair: Kazuhiro Ohkura Artificial Evolution meets Metagenomics: the Binomic GA for Evolving Symbiotic Systems <div>Dr. Inman Harvey</div>
18:00   18:30	Break
18:30   20:30	Banquet (Banquet Room: EBISU)

November 20, 2010 (Sat)

9:00   11:00	<b>Session5: Robotics</b> Chair: Masao Kubo (Conference Room) Evolving a Goal Selection Strategy for a Robot Tour Guide <div>Alex Fukunaga, Hideru Hiruma, Kazuki Komiya and Hitoshi Iba</div> Setting Methods of Network Parameters for Reinforcement Learning Equipped with Artificial Neural Networks <div>Kazuaki Yamada</div> Analysis of Behavioural Strategy on ER using Self-Organizing Maps <div>Masanori Goka, Yoshiyuki Matsumura and Kazuhiro Ohkura</div> The Analysis of Autonomous Specialization Process in Reinforcement Learning Arm-Type Robots Cooperating with a Human <div>Toshiyuki Yasuda and Kazuhiro Ohkura</div> Autonomous Locomotion Control for Multi-Legged Virtual Robots <div>Masahito Yamamoto, Kazuya Ojiri, Ikuo Suzuki and Masashi Furukawa</div> Introduction of Scientific Cloud Concept for Industry Application <div>Zlatan Car, Dario Ogrizovic, Branimir Barisic and Branko Katalinic</div>
11:00   11:20	<b>Coffee Break</b>
11:20   13:00	<b>Session6: Multi Agent Systems</b> Chair:Saori Iwanaga (Conference Room) An Institutional Comparison of Transaction Mechanisms for a Market-based Model <div>Masayuki Ishinishi, Yuhsuke Koyama, Hiroshi Deguchi and Hajime Kita</div> Effect of Information Sharing in Combat Simulation <div>Aya Fusano, Hiroshi Sato and Akira Namatame</div> Collective Localization by Self Organization - 3 Dimensional Target Enclosure Behavior <div>Masao Kubo, Takahiro Tanaka and Hiroshi Sato</div> Hybrid Evolutionary Algorithm based on $(\mu, \lambda)$ Evolution Strategies and Particle Swarm Optimization applies to a Car Racing Problem <div>Yoshiyuki Matsumura, Eisuke Nakahara, Masanori Goka, Toshiyuki Yasuda and Kazuhiro Ohkura</div> Game Analysis and Modeling the Social Utilization of Shared Resources Based on Traveling Salesperson Problem <div>Ryota Ono, Hidenori Kawamura and Keiji Suzuki</div>
13:00   14:00	<b>Lunch Break</b>
14:00   15:00	<b>Keynote Speech</b> (Conference Room) Chair: Kazuhiro Ohkura Recent Trends in Evolutionary Multiobjective Optimization Research <div>Dr. Hisao Ishibuchi</div>
15:00   15:15	<b>Coffee Break</b>
15:15   17:35	<b>Session7: Society</b> Chair: Hiroshi Sato (Conference Room) Dynamic Diffusion Process in Evolutionary Optimized Networks <div>Takanori Komatsu and Akira Namatame</div> Developing An Input Method by Evolution Strategies for Employing Users' Variation <div>Shuhei Miyoshi, Hiroshi Kawakami and Hisashi Handa</div> Conversation Characteristics of Older Adults in Care Facilities <div>Takashi Otani, Jun Ota and Mihoko Otake</div> Development of Semi-automated Conversation Measuring System <div>Takuya Ueshima, Jun Ota and Mihoko Otake</div> Optimum Picking Navigation for Large-scale Logistic Center under Energy Minimization <div>Makiko Takahashi, Ikuo Suzuki, Masahito Yamamoto, Michiko Watanabe and Masashi Furukawa</div> Stability, Localization and Application to Dynamic Plane Covering Problem of Swarm Leading Control <div>Keitaro Naruse, Keigo Suenaga and Shigeaki Hukui</div> Analysis of Nonhomogeneous Yielding by Means of Different Intelligent System Based on Stochastic and Finite Element Method <div>Branimir Barisic, Miroslav Plancak and Zlatan Car</div>
17:35   17:40	<b>Closing Remarks: Kazuhiro Ohkura</b> (Conference Room)