Hiroshima University Higashi-Hiroshima Campus Map
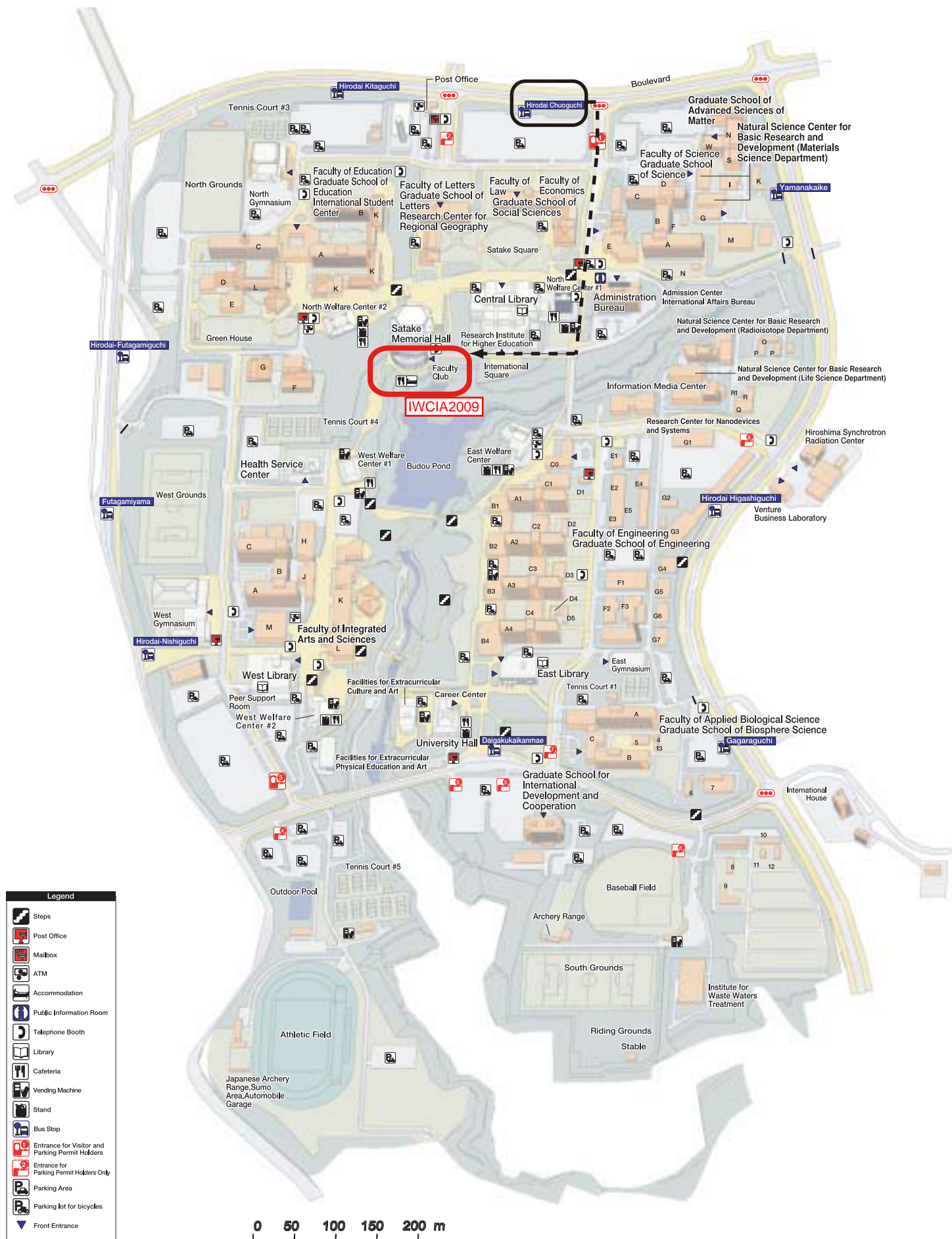
Time Table

Nov. 10		Nov. 11		Nov. 12	
Room A	Room B	Room A	Room B	Room A	Room B

Time	Nov. 10 Room A	Nov. 10 Room B	Nov. 11 Room A	Nov. 11 Room B	Nov. 12 Room A	Nov. 12 Room B
8:30						
9:00	Registration		General Session 2		General Session 3	
9:20						
9:40						
10:00	General Session 1		Coffee Break		Coffee Break	
10:20			OS3: Brain-Inspired Systems (Brain-IS)	Student Session 1	OS6: Advanced Evolutionary Computing Methods & Applications	
10:40						
11:00						
11:20						
11:40						
12:00	Lunch		Lunch		Lunch	
13:00					Student Session 3	OS7: User Interface Design(1)
13:20	Keynote Speech1(13:30-) Intelligent Transportation Systems in Taiwan Prof. Tsu-Tian Lee National Taipei University of Technology, Taiwan		Keynote Speech2(13:30-) New Frameworks of Interactive Evolutionary Computation Prof. Hideyuki Takagi Kyushu University, Japan			
13:40						
14:00						
14:20						
14:40						
15:00	Coffee Break		Coffee Break		Coffee Break	
15:20	OS1: Human Factors & Intelligent Manufacturing System	OS2: Approach to Real Dataset with Multi-attribute	OS4: Automotive Interface Design	Student Session 2		OS8: User Interface Design(2)
15:40						
16:00						
16:20						
16:40						
17:00			Coffee Break		Coffee Break	
17:20			OS5: Mathematical Structures & its Analysis		Award	
17:40						
18:00						
18:20						
18:40						
19:00			Banquet			
19:20						
19:40						
20:00						
20:20						

Technical Program

Tuesday, 10 November 2009

Room A

Session Time	[G-1] General Session 1 10:00-12:00	Chair: Hisashi Handa
10:00	A1001 Rule Induction by EDA with Instance-Subpopulations Hisashi Handa	
10:20	A1002 An Interactive Fuzzy Satisficing Method for Fuzzy Random Multiobjective 0-1 Programming Problems through Probability Maximization Using Possibility Masatoshi Sakawa, Takehisa Hontani, Kosuke Kato and Takeshi Matsui	
10:40	A1003 An Interactive Fuzzy Satisficing Method for Multiobjective Stochastic Integer Programming Problems through Simple Recourse Model Masatoshi Sakawa, Atsushi Karino, Kosuke Kato and Takeshi Matsui	
11:00	A1004 Support Vector Selection for Regression Machines Wan-Jui Lee, Chih-Cheng Yang and Shie-Jue Lee	
11:20	A1005 Borderline Over-sampling for Imbalanced Data Classification Hien M. Nguyen, Eric W. Cooper and Katsuari Kamei	
11:40	A1006 Development of the NTP Pool Project in Taiwan Chien-Chi Chao, Shih-Ping Huang and Wu-Shun Jwo	

Lunch Break

Lecture 1 13:30-15:00	Intelligent Transportation Systems in Taiwan Prof. Tsu-Tian Lee	Chair: Hideki Katagiri

Coffee Break

Session Time	[O-1] Organized Session 1 Human Factors and Intelligent Manufacturing System 15:20-17:00	Chair: Atsuo Murata
15:20	A1007 An Optimal EOQ Model for Perishable Products with Varying Demand Pattern Abdul Ibraheem and Atsuo Murata	
15:40	A1008 Production Lot Size Models for Perishable Seasonal Products Abdul Ibraheem and Atsuo Murata	
16:00	A1009 A Proposal for Town Development in Aged Society Tetsuko Matsuo and Atsuo Murata	
16:20	A1010 The Development of the Computer Aided Remanufacturing System (CARES) Part I: Software Development (Phase I) and a Simulation Study Zakri Ghazalli and Atsuo Murata	
16:40	A1011 Effects of State of Eye Movements before Saccade on Efficiency of Response to Stimulus - Comparison of Search Efficiency between Fixation and Smooth Pursuit Situations - Atsuo Murata, Takehito Hayami and Makoto Moriwaka	

Room B

Session	[O-2] Organized Session 2 Approach to Real Dataset with Multi-attribute	Chair: Ayahiko Niimi
Time	15:20-17:00	
15:20	B1001 Applying Cluster Ensemble to Adaptive Tree Structured Clustering Takashi Yamaguchi, Yuki Noguchi, Takumi Ichimura and Kenneth J. Mackin	
15:40	B1002 The Medical Diagnosis Support System with Intelligent Multiagent Techniques by Performance Differential Difference Kazuyoshi Nakano, Daisuke Yamaguchi, Fumiyo Katayama and Muneo Takahashi	
16:00	B1003 Community Graph Sequence with Sequence Data of Network Structured Data Takehiro Yamaguchi and Ayahiko Niimi	
16:20	B1004 Feature Selection in Large Scale Data Stream for Credit Card Fraud Detection Masayuki Ise, Ayahiko Niimi and Osamu Konishi	
16:40	B1005 Extension of Decision Tree Algorithm for Stream Data Mining Using Real Data Tatsuya Minegishi, Masayuki Ise, Ayahiko Niimi and Osamu Konishi	

Wednesday, 11 November 2009

Room A

Session Time	[G-2] General Session 2 09:00-10:20	Chair: Takumi Ichimura
09:00	A1101 Estimation of Hierarchical Emotion in Mental State Transition Learning Network Takumi Ichimura and Kazuya Mera	
09:20	A1102 State Estimation Method for Sound Environment System with Uncertainty and Its Application to Psychological Evaluation Hisako Orimoto and Akira Ikuta	
09:40	A1103 Implementation of a Mobile Device Controlled Multi-behavior Interactive Mobile Robot Over MR Technology Wen-Yo Lee, Jhu-Syuan Guo, Ta-Chih Hung and Hui-Wen Hsu	
10:00	A1104 An Intelligent Auxiliary Vacuum Brake System Chia-Chang Tong, Jhih-Yu Lin, Shih-Fan Li and Jiun-Yi Li	
	Coffee Break	
Session Time	[O-3] Organized Session 3 Brain-Inspired Systems (Brain-IS) 10:40-12:00	Chair: Kazuhiro Tokunaga
10:40	A1105 Real-Time Visal Motion Detection by Spatiotemporal Energy Model Implemented on GPU Akitoshi Hanazawa	
11:00	A1106 A Morphological Associative Memory Employing A Stored Pattern Independent Kernel Image and Its Hardware Model Hidetaka Harada, Takashi Saeki and Tsutomu Miki	
11:20	A1107 Adaptive Skin Color Prediction Using Multi Skin Color Models Keiichi Horio and Tomohiro Katayama	
11:40	A1108 Simultaneous Optimization of a Wheeled Mobile Robot Structure and a Control Parameter Masanori Sato, Atsushi Kanda and Kazuo Ishii	
	Lunch Break	
Lecture 2 13:30-15:00	New Frameworks of Interactive Evolutionary Computation Prof. Hideyuki Takagi Chair: Hideki Katagiri	
	Coffee Break	
Session Time	[O-4] Organized Session 4 Automotive Interface Design 15:20-17:00	Chair: Atsuo Murata
15:20	A1109 Effects of Location of Information Presentation in Pedestrian Detection System on Visibility and Performance Atsuo Murata, Shinsaku Aratama and Makoto Moriwaka	
15:40	A1110 Basic Study on Effectiveness of Tactile Interface for Warning Presentation in Driving Environment Atsuo Murata, Kohki Tanaka and Makoto Moriwaka	

16:00	A1111 Prevention of Drowsy Driving by Means of Warning Sound Atsuo Murata, Yusuke Matsuda and Makoto Moriwaka
16:20	A1112 Visual Information Processing Characteristics of Drivers in Prediction of Dangerous Situation - Comparison among Novice, Expert and Non-licensed Person - Atsuo Murata, Takehito Hayami and Makoto Moriwaka
16:40	A1113 Design Method of Cockpit Module in Consideration of Switch Type, Location of Switch and Display Information for Older Drivers Atsuo Murata, Keita Yamada and Makoto Moriwaka
Coffee Break	

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Banquet

19:00-20:30

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Room B

Session Time	[S-1] Student Session 1 10:40-12:00	Chair: Toshiyuki Tanaka
10:40	B1101 Development of An Evaluation Tool for A Driving Seat Reducing Neck Injury Based on Mechanical Impedance Shunsuke Fukushima, Yuhei Nomoto, Toshiyuki Tanaka, Toshio Tsuji, Toru Takeshima and Masaya Yamashita	
11:00	B1102 Analysis of Human Hand Impedance Properties Depending on Driving Conditions Yusuke Kashiba, Yoshiyuki Tanaka, Toshio Tsuji, Naoki Yamada and Takamasa Suetomi	
11:20	B1103 PLS-based Approach for Kansei Analysis Tatsuro Matsubara Yukihiro Matsubara, Shigekazu Ishihara and Mitsuo Nagamachi	
11:40	B1104 An Efficient Web Page Recommendation Based on Preference Footprint to Browsed Pages Shuhei Hayashi, Yuuki Inoshita and Satoshi Fujita	

Lunch Break

Lecture 2 13:30-15:00	New Frameworks of Interactive Evolutionary Computation Prof. Hideyuki Takagi Chair: Hideki Katagiri

Coffee Break

Session Time	[S-2] Student Session 2 15:20-17:00	Chair: Hisashi Handa
15:20	B1105 Route Tracking Control of Tractor-Trailer Vehicles based on Fuzzy Controller Hiroki Takenaga, Masami Konishi and Jun Imai	
15:40	B1106 Design Support of Transportation Routing for a Multi Layered Factory Koji Nakagawa and Masami Konishi	
16:00	B1107 A Semantic Similarity Measurement Method Based on Information Quality in the Structure of the Gene Ontology Junya Hirai, Hideki Katagiri, Ichiro Nishizaki and Tomohiro Hayashida	
16:20	B1108 Evaluation of An Economic Model Composed of Producer Agents Nao Itou, Yoshinobu Maeda and Toyohiko Hayashi	
16:40	B1109 Self-Organized Similarity based Kernel Fuzzy Clustering Model and Its Applications Tomoyuki Kuwata and Mika Sato-Ilic	

Coffee Break

Session Time	[O-5] Organized Session 5 **Mathematical Structures and its Analysis** 17:20-18:40	Chair: Hiroaki Kuwano
17:20	B1110 Set Containment Characterization and Mathematical Programming Satoshi Suzuki and Daishi Kuroiwa	
17:40	B1111 Set Optimization Theory and Its Applications Daishi Kuroiwa	

18:00	B1112 Asymptotic Convergence Analysis of The Proximal Point Algorithm for Metrically Regular Mappings Shin-ya Matsushita and Li Xu
18:20	B1113 On A Generalization of Concavity by Some Aggregation Functions Masamichi Kon and Hiroaki Kuwano

Banquet

19:00-20:30

Thursday, 12 November 2009

Room A

Session Time	[G-3] General Session 3 09:00-10:20	Chair: Takumi Ichimura
09:00	A1201 Strict Solution Method for Linear Programming Problem with Ellipsoidal Distributions under Fuzziness Takashi Hasuike and Hideki Katagiri	
09:20	A1202 A Clustering-Based Algorithm for Data Reduction Chi-Yuan Yeh, Jeng Ouyang and Shie-Jue Lee	
09:40	A1203 Long-term Operation Planning of District Heating and Cooling Plants Considering Contract Violation Penalties Masatoshi Sakawa, Shimpei Matsuoka, Kosuke Kato, Keiichi Ishimaru and Satoshi Ushiro	
10:00	A1204 Tissue Characterization of Coronary Plaque by Using Fractal Analysis-based Features of IVUS RF-signal Takanori Koga, Eiji Uchino, Yuki Tanaka and Noriaki Suetake	

Coffee Break

Session
 	
Time
	[O-6] Organized Session 6
	   Advanced Evolutionary Computing Methods and Applications
	10:40-12:00
		Chair: Akira Hara
		   and Tomoharu Nagao

10:40	A1205 Creating Singing Vocal Expressions by means of Interactive Evolutionary Computation Akio Watanabe, Makoto Tanji and Hitoshi Iba	
11:00	A1206 An Extended ISM for Globally Multimodal Function Optimization by Genetic Algorithms Naoya Karatsu, Yuichi Nagata, Isao Ono and Shigenobu Kobayashi	
11:20	A1207 Rule Extraction by Genetic Programming with Clustered Terminal Symbols Akira Hara, Haruko Tanaka, Takumi Ichimura, Tetsuyuki Takahama	
11:40	A1208 Automatic Construction of Accurate Image Processing using AdaBoost Jun Ando and Tomoharu Nagao	

Lunch Break

Session Time	[S-3] Student Session 3 13:00-14:40	Chair: Takumi Ichimura
13:00	A1209 An Evolutionary Multi-Objective Optimization-Based Constructive Method for Learning Classifier Systems Adjusting to Non-Markov Environments Keita Moriwake, Hideki Katagiri, Ichiro Nishizaki and Tomohiro Hayashida	
13:20	A1210 Agent-based Simulation Analysis for Network Formation Rika Kambara, Tomohiro Hayashida, Ichiro Nishizaki and Hideki Katagiri	
13:40	A1211 Evolving FPS Game Players by Using Continuous EDA-RL Hajime Tsubota and Hisashi Handa	
14:00	A1212 An Improved Scheme for Interest Mining Based on a Reconfiguration of the Peer-to-Peer Overlay Naomi Aoki and Satoshi Fujita	

14:20	A1213 Variable Gain Type PID Control Using PSO for Ultrasonic Motor Faridah A. Rahman, Yusuke Murata, Kanya Tanaka, Yuki Nishimura, Shigeru Uchikado and Yasuhiro Osa

Room B

Session	[O-7] Organized Session 7 　　User Interface Design(1)	Chair: Atsuo Murata
Time	13:00-14:40	
13:00	B1201 Basic Study for Development of Web Browser suitable for Eye-gaze Input System - Identification of Optimal Click Method - Atsuo Murata and Makoto Moriwaka	
13:20	B1202 Effectiveness of the menu selection method for eye-gaze input system - Comparison between young and older adults - Atsuo Murata and Makoto Moriwaka	
13:40	B1203 Basic study on relationship between SI, EI and human error characteristics Atsuo Murata, Kohei Yamamoto and Makoto Moriwaka	
14:00	B1204 Skill of Eye-Hand Coordination in Calligraphy - Difference of Skill of Hand-Eye Coordination between Expert and Novice - Atsuo Murata, Goshiro Yamamoto and Makoto Moriwaka	
14:20	B1205 Fundamental Study for Constructing A System to Assist The Left Visual Field of Older Drivers - Effectiveness of The Alternative of The Left Front Side-view Mirror by The Central Visual Field - Atsuo Murata, Yohei Uchida and Makoto Moriwaka	
	Lunch Break	
Session	[O-8] Organized Session 8 　　User Interface Design(2)	Chair: Atsuo Murata
Time	15:00-16:20	
15:00	B1206 Educational Plans in Nursing Departments The Current State of Nurse Development Yukio Ozawa, Atsuo Murata and Masatoshi Kitaoka	
15:20	B1207 Development of Thumb-Operated Dial-Type Integrated Switch for Automobile and its Effectiveness Atsuo Murata, Makoto Moriwaka and Wang Shuguang	
15:40	B1208 Comparison of Performance among Different Situations of Operation in Web Display - Comparison of Behavioral Features between Young and Older Adults - Atsuo Murata, Makoto Moriwaka and Rina Takahashi	
16:00	B1209 Effects of Image and Layered Structure on Web Search Performance -Evaluation on the Basis of Movement Distance of Mouse Pointer- Atsuo Murata, Takehito Hayami, Makoto Moriwaka and Rina Takahashi	
16:20	B1210 Evaluation of Drowsiness by HRV Measures - Proposal of prediction method of low arousal state - Atsuo Murata and Yasutaka Hiramatsu	