

Technical Program

Wednesday, 10 December 2008

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| Session Time | [G-A] General Session A 09:00-10:20 | Chair: Kosuke Kato |
| 09:00 | User's Comment Classifying Method Using Self Organizing Feature Map on Healthcare System for Diabetic Kazuya Mera and Takumi Ichimura | |
| 09:20 | Multi-chromosomal Grammatical Evolution Akira Hara, Tomohisa Yamaguchi, Takumi Ichimura and Tetsuyuki Takahama | |
| 09:40 | Particle Swarm Optimization Combining Diversification and Intensification for Nonlinear Integer Programming Problems Takeshi Matsui, Masatoshi Sakawa, Kosuke Kato and Koichi Matsumoto | |
| 10:00 | Constitution of Ms.PacMan Player with Critical-Situation Learning Mechanism Hisashi Handa | |
| Coffee Break | | |
| Session Time | [S-A] Student Session A 10:40-12:00 | Chair: Takumi Ichimura |
| 10:40 | Multivariate Analysis for Fault Diagnosis System Hanaa E.Sayed, Hossam A.Gabbar and Shigeji Miyazaki | |
| 11:00 | A Forecasting Decision Support System Hanaa E.Sayed, Hossam A.Gabbar, Soheir A. Fouadc, Khalil M. Ahmedc and Shigeji Miyazaki | |
| 11:20 | Portfolio Selection Problems with Normal Mixture Distributions Including Fuzziness Takashi Hasuike and Hiroaki Ishii | |
| 12:00 | Effect of vehicle display information and switch type on usability -Comparison between young and older adults- Wang Shuguang and Atsuo Murata | |
| Lunch Break | | |
| Lecture 1 13:00 | Human Error Management Paying Emphasis on Decision Making and Social Intelligence -Beyond the Framework of Man-Machine Interface Design- Prof. Atsuo Murata | |
| Session Time | [G-B] General Session B 14:00-15:40 | Chair: Hisashi Handa |
| 14:00 | Design for the framework of remanufacturing evaluation system that supports automobile product design and development in early design phase Atsuo Murata and Zakri Ghazalli | |
| 14:20 | Evaluation of automotive control-display system by means of mental workload Atsuo Murata and Makoto Moriwaka | |
| 14:40 | Design of vehicle instrumental panel for older adults -Effects of viewing distance, display form, and switch arrangement on secondary task performance- Atsuo Murata and Satoshi Yamaguchi | |
| 15:00 | Evaluation of drowsiness by EEG analysis -Basic study on ITS development for the prevention of drowsy driving- Atsuo Murata and Kazuyuki Nishijima | |
| 15:20 | Evaluation of drowsiness by HRV Measures -Basic study for drowsy driver detection- Atsuo Murata and Yasutaka Hiramatsu | |
| Coffee Break | | |

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| Session Time | [G-C] General Session C 16:00-17:40 | Chair: Yoshiyuki Tanaka |
| 16:00 | Web design that is friendly to older adults -Effects of perceptual, cognitive and motor functions and display information on web navigation time- Atsuo Murata and Rina Takahashi | |
| 16:20 | Optimal slope of touch panel -Comparison between young and older adults- Atsuo Murata and Rina Takahashi | |
| 16:40 | Effect of shape of pen on usability Atsuo Murata and Kensuke Mizushima | |
| 17:00 | Usability of site map in web design -Design of site map that is friendly to older adults- Atsuo Murata and Makoto Moriwaka | |
| 17:20 | Effectiveness of eye-gaze input system -Identificaion of conditions that assures high pointing accuracy and movement directional effect- Atsuo Murata and Takashi Miyake | |

Thursday, 11 December 2008

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| Lecture 2 09:00 | Nondominated equilibrium solutions of multiobjective two-person nonzero-sum games in normal and extensive forms Prof. Ichiro Nishizaki | |
| Session Time | [C-D] Data Mining Competitive Session 10:00-11:00 | Chair: Takumi Ichimura |
| 10:00 | Data mining by soft computing methods for the coronary heart disease database Akira Hara and Takumi Ichimura | |
| 10:20 | Analysis using adaptive tree structured clustering method for medical data of patients with coronary heart disease Takashi Yamaguchi, Takumi Ichimura and Kenneth J. Mackin | |
| 10:40 | Classification results of coronary heart disease database by using the clonal selection method with receptor editing Yasuaki Sakamoto, Takumi Ichimura, Akira Hara and Tetsuyuki Takahama | |
| Session Time | [C-S] Software Contest Session 11:00-12:00 | Chair: Kenneth J. Mackin |
| 11:00 | Interactive mobile communication system with facial expression extracting emotion Kazuya Mera and Takumi Ichimura | |
| 11:15 | Mobile healthcare system for preventive of metabolic syndrome Hiroshi Inoue and Takumi Ichimura | |
| 11:30 | News summary system for Web news site Ayahiko Niimi, Yusaku Saito and Osamu Konishi | |
| 11:45 | The medical diagnostic support system using extended neural network and multiagent Daisuke Yamaguchi, Fumiyo Katayama, Muneo Takahashi, Masataka Arai and Kenneth J. Mackin | |
| Lunch Break | | |
| Lecture 3 13:00 | Algebraic and Topological Aspects of Rough Set Theory Prof. Milan Vlach | |
| Session Time | [S-B] Student Session B 14:00-16:00 | Chair: Takumi Ichimura |
| 14:00 | An approximate solution method based on tabu search for k-minimum spanning tree problems Jun Ishimatsu, Hideki Katagiri, Ichiro Nishizaki and Tomohiro Hayashida | |
| 14:20 | Application of multi-objective evolutionary optimization algorithms to reactive power planning problem Mehdi Eghbal, Naoto Yorino and Yoshifumi Zoka | |
| 14:40 | Multiscale retinex with data-dependent offset Go Tanaka, Noriaki Suetake and Eiji Uchino | |
| 15:00 | Fast color removal method considering differences between colors Go Tanaka, Noriaki Suetake and Eiji Uchino | |
| 15:20 | Development of a training-assist robotic system adapting to individual motor abilities in virtual tennis task Masataka Ishii, Yoshiyuki Tanaka, Toshio Tsuji and Nobuaki Imamura | |
| 15:40 | Rule acquisition for cognitive agents by using estimation of distribution algorithms Tokue Nishimura and Hisashi Handa | |

Coffee Break

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| Session Time | [G-D] General Session D 16:20-17:20 | Chair: Tomohiro Hayashida |
| 16:20 | Effectiveness of instruction using electronic circuit simulation software Yukio Ohta and Atsuo Murata | |
| 16:40 | A perishable inventory model with unknown time horizon A.I. Abdul, A. Murata and A.E. Oluleye | |
| 17:00 | Care for home-bound older adults and revitalization of local shopping arcade Tetsuko Matsuo and Atsuo Murata | |