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Technical Program

1AM1-M: Adaptive Systems

Date: Mar. 1 (Sun) 9:00-10:30

Room: Molokai

Chair: Takaaki Baba (Waseda University)

1AM1-M1 Dual Adaptive Pre-whitening Filters for LMS Algorithm

Kazuyoshi Tashiro (Saitama University), Tetsuya Shimamura (Saitama University)

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High Speed Synchronization Motion Control Using Synchronizing Controller with PI Controller for Two Axes Speed Servo System

Shou Fujisawa (The University of Tokushima), Takashi Yasuno (The University of Tokushima), Satoshi Yura (Takamatsu NCT), Kenichi Iida (Nara NCT), Hironobu Harada (The University of Tokushima)

Implement Random Time-varying Particle Swarm Optimization for the Real Time System by Using FPGA

Kui-Ting Chen (Waseda University), Syahrulanuar Ngah (Waseda University), Hui Zhu (Waseda University), Takaaki Baba (Waseda University)

Hallym U-Health System Part I: Hallym Jikimi - A Remote Monitoring System for Elders Living Alone

Yong-Joong Kim (Hallym University), Seon-Woo Lee (Hallym University), Kyung-Kwon Jung (Hallym University), Gyu Moon (Hallym University), Ho-Youl Kang (Hallym University), Dong-Sik Shin (Hallym University)

Self Localization and Mapping for Multiple Robots Based on Sensor Network Technique

Hiroki Arimochi (The University of Tokushima), Takashi Yasuno (The University of Tokushima), Emiko Yasuno (Anan NCT), Akinobu Kuwahara (The University of Tokushima)

1AM1-H: [Special Session] Network Technologies

Organizer(s): Hitoshi Watanabe (Tokyo University of Science)

Date: Mar. 1 (Sun) 9:00-10:30

Room: Hawaii I & II

Chair: Masaki Hanada (Tokyo University of Science)

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Mamiko Inamori (Keio University), Takashi Kawai (Keio University), Tatsuya Kobayashi (Keio University), Haruki Nishimura (Keio University), Yukitoshi Sanada (Keio University)

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Performance Analysis of a Computer Communication System with Timeout Scheme

Kentaro Hoshi (Waseda University), Sumito Iijima (Waseda University), Yoshitaka Takahashi (Waseda University), Naohisa Komatsu (Waseda University)

1AM1-K: Speech Processing 1

Date: Mar. 1 (Sun) 9:00-10:30

Room: Kauai

Chair: Shingo Kuroiwa (Chiba University)

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Evaluation of Fundamental Frequency Prediction from MFCC Using Japanese Utterance

Takafumi Yui (Chiba University), Amela Abdelwahab (Chiba University), Masafumi Nishida (Chiba University), Yasuo Horiuchi (Chiba University), Shingo Kuroiwa (Chiba University)

Investigation on Acoustic Feature to Characterize Ill-articulated Voice Uttered by Elderly People

Kenta Hamasaki (Kyushu Institute of Technology), Takeshi Miyazaki (Kyushu Institute of Technology), Mitsunori Mizumachi (Kyushu Institute of Technology), Katsuyuki Niyada (Kyushu Institute of Technology)

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Kota Kinugasa (JAIST), Masashi Unoki (JAIST), Masato Akagi (JAIST)

A Code Vector Conversion Model for Bone and Air Conduction Voices by Using Self-Organizing Map with Additional Learning

Ryosuke Kubota (Ube NCT), Eiji Uchino (Yamaguchi University), Noriaki Suetake (Yamaguchi University), Mami Kunihiro (Yamaguchi University)

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Room: Molokai

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Masataka Tobari (The University of Tokushima), Takashi Yasuno (The University of Tokushima), Hironori Suzue (Kitaoka Group)

Fuzzy Tracking Control for Autonomous All Terrain Vehicle on Outdoor
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Shirou Ozaki (The University of Tokushima), Takashi Yasuno (The University of Tokushima), Hironobu Harada (The University of Tokushima), Akinobu Kuwahara (The University of Tokushima)

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Mio Musashi (The University of Tokushima), Ken'ichi Fujimoto (The University of Tokushima), Tetsuya Yoshinaga (The University of Tokushima)

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Hideyuki Kato (Saitama University), Tohru Ikeguchi (Saitama University)

Measurement of Switched-Capacitor Chaotic Neuron Circuit Controlled by Adaptive Feedback Method

Aki Nakano (Tokyo Denki University), Hiroyasu Ando (ERATO, JST), Yoshihiko Horio (Tokyo Denki University), Aihara Kazuyuki (Tokyo University)

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Chair: Tetsuya Shimamura (Saitama University)

A Study on Nonlinguistic Features in Singing and Speaking Voices by Brain Activity Measurement

Tomohiko Nakamura (JAIST), Tatsuya Kitamura (Konan University), Masato Akagi (JAIST)

Non-Stationary Noise Robust Speech Recognition Method Using Repetitive Phrase

Yasunori Kashihara (University of Tokushima), Satoru Tsuge (University of Tokushima), Tadahiro Oyama (University of Tokushima), Hillary Kipsang Choge (University of Tokushima), Minoru Fukumi (University of Tokushima), Shingo Kuroiwa (Chiba University)

1PM2-K3 Distinctive Phonetic Feature (DPF) Based Phoneme Recognition Using MLNs and Inhibition/Enhancement Network for Noise Robust ASR

Mohammad Huda (Toyohashi University of Technology), Hiroaki Kawashima (Toyohashi University of Technology), Kouichi Katsurada (Toyohashi University of Technology), Tsuneo Nitta (Toyohashi University of Technology)

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Room: Molokai

Chair: Shintaro Arai (Tokushima University)

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[Special Session] Smart Multimedia Processing and Communication

Organizer(s): Naoto Sasaoka (Tottori University)

Date: Mar. 2 (Mon) 9:00-10:30

Room: Hawaii I & II

Chair: Naoto Sasaoka (Tottori University)

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Donekeo Lakanchanh (KMITL), Shingo Yoshizawa (Hokkaido University), Suthichai Noppanakeepong (KMITL), Yoshikazu Miyanaga (Hokkaido University)

Performance Approached for Quasi-Cyclic LDPC Code with Soft Interference Cancellation Based IEEE802.11n MIMO-OFDM System

Xiaonan Shi (Hokkaido University), Shingo Yoshizawa (Hokkaido University), Yoshikazu Miyanaga (Hokkaido University)

2AM1-K: Image Processing 1

Date: Mar. 2 (Mon) 9:00–10:30

Room: Kauai

Chair: Yasue Mitsukura (TUAT)

2AM1-K1 Blind Image Deconvolution Based on Similarity Measure of Power Spec-

Toshihisa Tanaka (TUAT), Kanako Makino (TUAT), Ryo Miyamoto (TUAT), Rachel Mabanag Chong (TUAT)

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2AM1-K4 Color Conversion Method to Perceptible Images for Color Vision Deficiencies by Using Combinatorial Optimization

Mitsuhiko Meguro (Nihon University), Ryuta Hoshino (Yamagata University), Youhei Hibara (Nihon University)

Face Detection Using the Near-Infrared Camera and Evolutionary Algorithms

Kentaro Tohi (TUAT), Hironobu Fukai (TUAT), Yasue Mitsukura (TUAT), Minoru Fukumi (University of Tokushima)

2AM2-M: Oscillators

Date: Mar. 2 (Mon) 10:50–12:20

Room: Molokai

Chair: Masahiro Wada (Konan University)

High-Fidelity Pulse-Density Modulation with Noisy Neuromorphic Circuits Based on Model of Vestibulo-Ocular Reflex

Akira Utagawa (Hokkaido University), Tetsuya Asai (Hokkaido University), Yoshihito Amemiya (Hokkaido University)

2AM2-M2 Synchronous Oscillation of Resonator-Coupling Oscillators

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Chikayasu Higashi (Tokushima University), Yoshifumi Nishio (Tokushima University)

2AM2-M3 Bifurcation Analysis of Chaos Synchronization in Coupled BVP Oscillators

Satoshi Nishioka (Tokushima University), Tetsushi Ueta (Tokushima University)

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Hironori Kumeno (Tokushima University), Yoshifumi Nishio (Tokushima University)

2AM2-H: Data Mining

Date: Mar. 2 (Mon) 10:50-12:20

Room: Hawaii I & II

Chair: Masayuki Yamauchi (Hiroshima Institute of Technology)

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Kazuho Hosoi (Shikoku University), Yasuteru Hosokawa (Shikoku	ı University	r`
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Takayuki Kishimoto (UEC), Haruhisa Takahashi (UEC), Kazuhiro Hotta (UEC)

2AM2-H3 Analysis of the Questionnaire Investigation for Partnership

Yasuo Ishii (Hankyu Corporation), Nao Miyata (Osaka Prefecture University), Kazuhiro Takeyasu (Osaka Prefecture University)

2AM2-H4 Image-Based Smoke Detection with k-Subspaces Clustering

Hironori Inoue (TUAT), Toshihisa Tanaka (TUAT)

Raising Hand Action Detection Using Wireless Game Controller for Teaching Assistance System

Shiho Fujii (Shikoku University), Satoshi Togawa (Shikoku University), Kazuhide Kanenishi (University of Tokushima), Yoneo Yano (University of Tokushima)

2AM2-K: Image Processing 2

Date: Mar. 2 (Mon) 10:50-12:00

Room: Kauai

Chair: Keikichi Hirose (The University of Tokyo)

2AM2-K1 Discrete Genetic Algorithm with Laplacian of Gaussian-based Edge Detector for Plaque Boundary Extraction in Intravascular Ultrasound Image

Ryosuke Kubota (Ube NCT), Takuya Okamoto (Yamaguchi University), Noriaki Suetake (Yamaguchi University), Eiji Uchino (Yamaguchi University), Genta Hashimoto (Yamaguchi University), Takafumi Hiro (Yamaguchi University), Masunori Matsuzaki (Yamaguchi University)

An ROC Performance Validation of Hierarchical k-Nearest Neighbor Classifier Applied to Tissue Characterization Using IVUS-RF Signal

Eiji Uchino (Yamaguchi University), Noriaki Suetake (Yamaguchi University), Ryosuke Kubota (Ube NCT), Takanori Koga (Yamaguchi University), Genta Hashimoto (Yamaguchi University), Takafumi Hiro (Yamaguchi University), Masunori Matsuzaki (Yamaguchi University)

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Room: Molokai

Chair: Masatoshi Sato (Sophia University)

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Yuji Okazaki (Shizuoka University), Takanori Uno (DENSO), Kouhei Shinomiya (DENSO), Hideki Asai (Shizuoka University)

2PM1-H: [Special Session] Embedded Systems and Robotics

Organizer(s): Nobuaki Takahashi (IBM)

Date: Mar. 2 (Mon) 13:20-14:50

Room: Hawaii I & II

Chair: Nobuaki Takahashi (IBM)

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Date: Mar. 2 (Mon) 13:20-14:50

Room: Kauai

Chair: Shuitsu Matsumura (Kanazawa Institute of Technology)

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