Journal of Signal Processing「信号処理」Vol. 14, Nos. 1-6, 2010

全掲載記事・論文　総目次

Vol. 14, No. 1

「信号処理学会」／Journal of Signal Processing「信号処理」…… 2

学術の窓　計算知能に基づく配車配送計画問題の解法
董　芳艶，陳　科偉，廣田　薫 …… 3

講義シリーズ　量子力学と信号処理（33）－シュレディンガー方程式の回路理論から見た際立つ特長－
永井信夫 …… 13

私の研究遍歴（その２）鳥脇純一郎 …… 23

研究室紹介　馬場研究室（早稲田大学大学院情報生産システム研究科）
馬場孝明 …… 39

論　文　重要度指標と調整ノードによる機能局在型 Genetic Network Programming
間普真吾，江藤慎治，嶋田　香，平澤宏太郎 …… 49

論　文　フィルム映像におけるフリッカとブロッチの影響を考慮して作成した参照画像を用いたM推定による高速なフリッカ除去
川又僚太，阿部正英，川又政征 …… 61

論　文　ランニングスペクトルアナリシスを用いた連続音声認識用ロバスト音響モデルの構築
大貫和永，高橋　亘，宮永喜一 …… 73

「非線形回路，通信および信号処理特集号」のお知らせと論文投稿のお願い …… 83

Vol. 14, No. 2

「信号処理学会」／Journal of Signal Processing「信号処理」 …… 86

講義シリーズ　量子力学と信号処理（34）－エネルギーに関する力学と電磁波との際立つ違い－
永井信夫 …… 87

私の研究遍歴（その３）鳥脇純一郎 …… 97

研究室紹介　赤木研究室（北陸先端科学技術大学院大学）
赤木正人 …… 107

研究所紹介　独立行政法人　放射線医学総合研究所
小林　暁，辻井博彦 …… 119

PAPER　Identification of Discrete-Time Hammerstein Systems Using Gaussian Process Model
Tomohiro Hachino and Hitoshi Takata …… 129

論　文　完全シフト不変性を実現する複素数ウェーブレット・パケット変換
戸田　浩，章　忠 …… 139

論　文　APMP 分解に基づく pre-inverse 適応システムと収束条件
近藤浩行，伊藤良生，小林正樹 …… 153

「非線形回路，通信および信号処理特集号」のお知らせと論文投稿のお願い …… 161

Vol. 14, No. 3

「信号処理学会」／Journal of Signal Processing「信号処理」…… 164
「第４回信号処理学会論文賞」受賞論文のお知らせ …… 165
「第５回信号処理学会論文賞」授賞論文推薦募集のお知らせ …… 166

学術の窓　匂い信号処理
大松　繁 …… 167

先端技術解説　人間特性評価とその利用
加藤洋一，米村俊一，中谷桃子，入江　豪 …… 177

私の研究遍歴（その４）鳥脇純一郎 …… 189

研究室紹介　島村研究室（埼玉大学）
島村徹也 …… 201

PAPER　A Hybrid Global/Local Optimization Technique for Robust Training and Its Application to Microwave Neural Network Models
Hiroshi Ninomiya …… 213

PAPER Augmented Automatic Choosing Control of Observer Type for Nonlinear Measurement Systems and Its Application to Power Systems
Hitoshi Takata, Tomohiro Hachino, Seiji Motoyama, Toshinori Nawata and Kimihisa Kawabata ····· 223

論　文 屋内位置推定システムのための間取り推定手法
渡邊賢治，達可敏充，畠中理英，尾上孝雄 ····· 231

Vol. 14, No. 4

「信号処理学会」／Journal of Signal Processing「信号処理」····· 245

国際会議だより 2010 RISP International Workshop on Nonlinear Circuits, Communications and Signal Processing (NCSP'10)
鵜木祐史 ····· 247

Special Section on Papers Awarded the Student Paper Award at NCSP'10: Editor's Note
Masato Akagi ····· 251

SELECTED PAPER

Generalized Cauchy Distribution (GCD)-Based Score Functions for Flexible Independent Component Analysis
Marko Kanadi, Muhammad Tahir Akhtar and Wataru Mitsuhashi ····· 253

Self-Switching Phenomenon of Synchronization in Three Coupled Parametrically Forced Logistic Maps
Hironori Kumeno and Yoshifumi Nishio ····· 257

Morphological Wavelet Transform Using Directional Sampling Windows on Cellular Hardware Platform
Hiroaki Kobayashi, Hiroyuki Noda, Shingo Usuda, Tomohiro Fujita, Mamoru Nakanishi and Takeshi Ogura ····· 261

A Study of Brain Activities Elicited by Synthesized Emotional Voices Controlled with Prosodic Features
Yasuhiro Hamada, Tatsuya Kitamura and Masato Akagi ····· 265

A Study on the IMTF-Based Filtering on the Modulation Spectrum of Reverberant Signal
Shota Morita, Masashi Unoki and Masato Akagi ····· 269

Investigation of a Method of Speech Signal Analysis Using Empirical Mode Decomposition and Its Applications
Tomoki Sawaguchi and Masashi Unoki ····· 273

Use of Paired White Noises with Inverse Phases in Ensemble Empirical Mode Decomposition
Nobuhiro Sunada, Tetsuya Matsuda, Keikichi Hirose and Nobuaki Minematsu ····· 277

HMM-Based Synthesis of Fundamental Frequency Contours Using the Generation Process Model

Tetsuya Matsuda, Keikichi Hirose and Nobuaki Minematsu ····· 281
Model-Based Alignment System for Default Setting in Mixed Reality
Taiki Fuji, Hironobu Fukai, Yasue Mitsukura, Takanari Tanabata and Toshio Moriya ····· 285
Realization of IntDCT with Arbitrary Block Size Using Relation between DCT-IV and Parallel Block System of DCT-II
Taizo Suzuki, Hideaki Hayano and Masaaki Ikehara ····· 289
Iterative Method Based on Discretization of Continuous-Time Image Reconstruction for Computed Tomography
Chika Ueda, Omar M. Abou Al-Ola, Ken'ichi Fujimoto and Tetsuya Yoshinaga ····· 293
Subsurface Imaging by Bayesian Superresolution for Antipersonal Mine Detection Using Ground Penetrating Radar
Satoshi Kozawa, Takashi Takenouchi and Kazushi Ikeda ····· 297
Tone-Aware Halftoning Using Optimized Error Diffusion Filters Based on Blue Noise Patterns
Junghyeun Hwang, Hisakazu Kikuchi and Shogo Muramatsu ····· 301
Digital Watermarking Method with Reference Image in DWT-DCT Domain
Iwao Mizohara and Shigeo Wada ····· 305
Optical CDMA Systems Using Extended Chaotic Binary Codes
Yutaka Mizuno and Hiroyuki Yashima ····· 309
Simultaneous Visualization Method of 3-D Ultrasonic and Optical Images for Laparoscopic Surgery
Kazuya Matsumoto and Tadashi Yamaguchi ····· 313
Cooperative Conveyance Control for Multiple-Mobile-Robot System Using Complex-Valued Neural Network and Indirect Cooperative Scheme
Hiroshi Suzuki, Takashi Yasuno, Shiro Urushihara, Emiko Yasuno and Akinobu Kuwahara ····· 317
Control Characteristics of Three-Parallel-Crawler-Type Mobile Robot Using Adaptive Two-Degree-of-Freedom Control
Yuji Tanaka, Takashi Yasuno, Hiroshi Suzuki, Akinobu Kuwahara and Takaharu Yamada ····· 321

信号処理学会論文賞規程 ····· 325

Vol. 14, No. 5

「信号処理学会」／Journal of Signal Processing「信号処理」····· 328

学術の窓　　匂い信号処理
大松　繁 ····· 329

私の研究遍歴（その１）白井良明 ····· 339

研究室紹介　信号処理研究室（金沢工業大学）
松村秀逸，武部　幹 …… 349

留学体験記　Wright State University 留学記
関屋大雄 …… 359

PAPER　Face Perception Based on Spatial Gaussian Bessel Mixture and Nonlinear Feature Analysis
Sadi Vural, Yasushi Mae and Tatsuo Arai …… 369

PAPER　PAPR Reduction Technique for Next Generation Gigabit WLAN System
Wahyul Amien Syafei, Yuhei Nagao, Masayuki Kurosaki, Baiko Sai and Hiroshi Ochi …… 381

PAPER　A System for Detecting Extraordinary Sounds from Transformers in Electric Power Facility Surveillance
Yasuhiro Kosugi and Keikichi Hirose …… 387

2011 RISP International Workshop on Nonlinear Circuits, Communications and Signal Processing (NCSP'11) …… 397

Vol. 14, No. 6

Journal of Signal Processing「信号処理」…… 400

Special Issue on Nonlinear Circuits and Signal Processing: Editor's Note
Masato Akagi …… 402

PAPER
A Pipeline Architecture of Particle Swarm Optimization for Real-Time Control
Molin Jia, Xiao Cai, Syahrulanuar Ngah, Yuji Tanabe and Takaaki Baba …… 405

Global Signal Elimination from Environmental Electromagnetic Signals by Nonnegative Matrix Factorization
Motoaki Mouri, Arao Funase, Ichi Takumi, Andrzej Cichocki, Hiroshi Yasukawa and Masayasu Hata …… 415

Compact Matched Filter Banks of Optical ZCZ Codes Using Fast Algorithm for M-Sequence-Type Hadamard Matrix
Takahiro Matsumoto and Shinya Matsufuji …… 427

CDFG Generation and Fast Composite Operation Pattern Extraction Method from C Program for LSI Design
Takaaki Miyake, Yohei Fukumizu and Hironori Yamauchi …… 433

Hardware-Oriented Fast Estimation of Generated Bits for Rate-Distortion Optimization in H.264/AVC
Yizhong Liu, Tian Song, Hiroki Kuniyasu and Takashi Shimamoto ····· 443

Fast and Enhanced Super Resolution for DCT-Compressed Images
Shinobu Kudoh, Takayuki Nakachi and Nozomu Hamada ····· 451

Illumination-Invariant Face Texture Analysis by Gaussian-Histogram Equalization and Hierarchical Nonlinear Principal Component Analysis
Sadi Vural, Yasushi Mae and Tatsuo Arai ····· 459

Markerless Arm Posture Estimation Independent of Environment
Masaki Shimizu, Ishtiaq Rasool Khan, Yasutaka Kuriya, Hiroyuki Miyamoto and Takashi Morie ····· 475

Hand Posture Recognition Robust to Changing Posture in Complex Background
Hironori Takimoto, Seiki Yoshimori, Yasue Mitsukura and Minoru Fukumi ····· 483

Frame Synchronization for Multipulse PPM/CSK System
Fumie Ono and Hiromasa Habuchi ····· 491

TECHNICAL NOTE

Fast Human Action Recognition Using Conditional Random Field
Hirokazu Nagai, Haruhisa Takahashi and Kazuhiro Hotta ····· 499

Journal of Signal Processing「信号処理」Vol. 14, Nos. 1-6, 2010　全掲載記事・論文　総目次 ····· 507