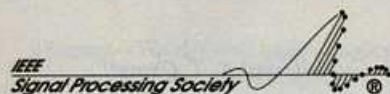


IEEE

SIGNAL PROCESSING LETTERS

A PUBLICATION OF THE IEEE SIGNAL PROCESSING SOCIETY



www.ieee.org/sp/index.html

JANUARY 2011

VOLUME 18

NUMBER 1

ISPLEM

(ISSN 1070-9908)

上海理工大学图书馆
军工路516号邮编 200093

LETTERS

Audio and Electroacoustics

A Modified SRP-PHAT Functional for Robust Real-Time Sound Source Localization With Scalable Spatial Sampling ...
..... M. Cobos, A. Marti, and J. J. Lopez 71

Image and Multidimensional Signal Processing

Channel Access Allocation for Scalable Video Transmission Over Contention-Based Wireless Networks S.-P. Chuah, Z. Chen, and Y.-P. Tan 15
Binocular Just-Noticeable-Difference Model for Stereoscopic Images Y. Zhao, Z. Chen, C. Zhu, Y.-P. Tan, and L. Yu 19
Shadow Compensation Using Fourier Analysis With Application to Face Recognition S.-I. Choi and G.-M. Jeong 23
A Testbed and Methodology for Comparing Live Video Frame Rate Control Methods I. V. Bajić and X. Ma 31
Visual Tracking Using High-Order Particle Filtering P. Pan and D. Schonfeld 51
Nearest Feature Space Analysis for Classification J. Lu and Y.-P. Tan 55
Inpainting by Joint Optimization of Linear Combinations of Exemplars B. Wohlberg 75

Multimedia Signal Processing

Security Analysis on Spatial ± 1 Steganography for JPEG Decompressed Images W. Luo, Y. Wang, and J. Huang 39

(Contents Continued on Page 2)

IEEE SIGNAL PROCESSING LETTERS (ISSN 1070-9908) is published quarterly in print and monthly online by the Institute of Electrical and Electronics Engineers, Inc. Responsibility for the contents rests upon the authors and not upon the IEEE, the Society/Council, or its members. **IEEE Corporate Office:** 3 Park Avenue, 17th Floor, New York, NY 10016-5997. **IEEE Operations Center:** 445 Hoes Lane, Piscataway, NJ 08854-4141. **NJ Telephone:** +1 732 981 0060. **Price/Publication Information:** Individual copies: IEEE Members \$20.00 (first copy only), nonmembers \$221.00 per copy. (Note: Postage and handling charge not included.) Member and nonmember subscription prices available upon request. Available in microfiche and microfilm. **Copyright and Reprint Permissions:** Abstracting is permitted with credit to the source. Libraries are permitted to photocopy for private use of patrons, provided the per-copy fee indicated in the code at the bottom of the first page is paid through the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923. For all other copying, reprint, or republication permission, write to Copyrights and Permissions Department, IEEE Publications Administration, 445 Hoes Lane, Piscataway, NJ 08854-4141. Copyright © 2010 by the Institute of Electrical and Electronics Engineers, Inc. All rights reserved. Periodicals Postage pending at New York, NY and at additional mailing offices. **Postmaster:** Send address changes to IEEE SIGNAL PROCESSING LETTERS, IEEE, 445 Hoes Lane, Piscataway, NJ 08854-4141. GST Registration No. 125634188. CPC Sales Agreement #40013087. Return undeliverable Canada addresses to: Pitney Bowes IMEX, P.O. Box 4332, Stanton Rd., Toronto, ON M5W 3J4, Canada. IEEE prohibits discrimination, harassment and bullying. For more information visit <http://www.ieee.org/nondiscrimination>. Printed in U.S.A.

Signal Processing for Communications

Stepwise Optimal Subspace Pursuit for Improving Sparse Recovery	<i>B. Varadarajan, S. Khudanpur, and T. D. Tran</i>	27
A Nuclear Norm Heuristic Approach to Fractionally Spaced Blind Channel Equalization	<i>K. Konishi and T. Furukawa</i>	59
Existence of Binary Z -Complementary Pairs	<i>X. Li, P. Fan, X. Tang, and Y. Tu</i>	63
Performance Analysis of Relay Selection With Feedback Delay and Channel Estimation Errors	<i>M. Seyfi, S. Muhaidat, and J. Liang</i>	67

Statistical and Adaptive Signal Processing

Annealed SMC Samplers for Nonparametric Bayesian Mixture Models	<i>Y. Ulker, B. Günsel, and A. T. Cemgil</i>	3
Mean Weight Behavior of the NLMS Algorithm for Correlated Gaussian Inputs	<i>T. Y. Al-Naffouri, M. Moinuddin, and M. S. Sohail</i>	7
Computationally Efficient Approaches to Aeroacoustic Source Power Estimation	<i>L. Du, P. Stoica, J. Li, and L. N. Cattafesta</i>	11
Wideband Spectrum Sensing for Cognitive Radios With Correlated Subband Occupancy	<i>K. Hossain and B. Champagne</i>	35
Kronecker Product Based Second Order Approximation of Mean Value and Covariance Matrix in Nonlinear Transformations	<i>D. E. Manolakis</i>	43
A Quaternion Gradient Operator and Its Applications	<i>D. P. Mandic, C. Jahanchahi, and C. C. Took</i>	47