



Volume 90 Issue 1 January 2010 ISSN 0165-1684

# SIGNAL PROCESSING

---

An International Journal

---

A publication of the European Association for Signal Processing (EURASIP)



Contents

Abstracted/indexed in: Arts & Humanities Search<sup>®</sup>; ASFA (Aquatic Sciences and Fisheries Abstracts); Computer and Information Systems; CSA Aerospace, & High Technology Database; CSA Life Sciences Abstracts; CSA Technology Research Database; Current Contents Search<sup>®</sup>; DIALOG Newsroom; Education Abstracts; Ei Compendex<sup>®</sup>; Electronics and Communications Abstracts; Energy Science and Technology; Environmental Engineering Abstracts; GeoRef; Inside Conferences; Inspec; MathSci<sup>®</sup>; MetalBase; PASCAL; SciSearch<sup>®</sup>; Solid State and Superconductivity Abstracts; Thomson Scientific Science Citation Index; UnCover<sup>®</sup>; Wilson Applied Science & Technology Abstracts. Also covered in the abstract and citation database SCOPUS<sup>®</sup>. Full text available on ScienceDirect<sup>®</sup>

Research Papers

- S. Feng, D. Xu and X. Yang  
Attention-driven salient edge(s) and region(s) extraction with application to CBIR 1
- X. Shuai, L. Kong and J. Yang  
Performance analysis of GLRT-based adaptive detector for distributed targets in compound-Gaussian clutter 16
- F. Merchan, F. Turcu, E. Grivel and M. Najim  
Rayleigh fading channel simulator based on inner-outer factorization 24
- H. Zhang, Z. Jing and S. Hu  
Localization of multiple emitters based on the sequential PHD filter 34
- Q. Chen, X. Xu, Q. Sun and D. Xia  
A solution to the deficiencies of image enhancement 44
- S. Beau and S. Marcos  
Range dependent clutter rejection using range-recursive space-time adaptive processing (STAP) algorithms 57
- Q. Wang, L. Zhao, J. Qiao and C. Zou  
Acoustic feedback cancellation based on weighted adaptive projection subgradient method in hearing aids 69
- T. Wolff, H.-H. Ho, J.M. Foley and S.K. Mitra  
Modeling subjectively perceived annoyance of H.264/AVC video as a function of perceived artifact strength 80
- S. Ghorai, S.J. Hossain, A. Mukherjee and P.K. Dutta  
Newton's method for nonparallel plane proximal classifier with unity norm hyperplanes 93
- K.G. Nagananda and G.V. Anand  
Subspace intersection method of high-resolution bearing estimation in shallow ocean using acoustic vector sensors 105
- X.-F. Xu, D.-Z. Feng, W.X. Zheng and H. Zhang  
Convulsive blind source separation based on joint block Toeplitzation and block-inner diagonalization 119
- A. Erdozain and P.M. Crespo  
A new stochastic algorithm inspired on genetic algorithms to estimate signals with finite rate of innovation from noisy samples 134
- H. Boche and U.J. Mönich  
Convergence behavior of non-equidistant sampling series 145

Contents continued inside



J. Janhunen, O. Silvén and M. Juntti Programmable processor implementations of $K$ -best list sphere detector for MIMO receiver	313
S. Pan, J. Sun and S. Zhao Robust filtering for discrete time piecewise impulsive systems	324
C.-W. Yang and J.-J. Shen Recover the tampered image based on VQ indexing	331
P. Chen, L. Osadciw and T.-J. Wu Multiple targets characterization of electromagnetic vulnerability	344
P. Strobach Sliding window adaptive SVD using the unsymmetric householder partial compressor	352
C.-Y. Yang and B.-S. Chen Robust power control of CDMA cellular radio systems with time-varying delays	363
<b>Fast Communications</b>	
C.-C. Chang, Z.-H. Mao and H.-N. Lee MB iterative decoding algorithm on systematic LDGM codes: Performance evaluation	373
J.-S. Hu, C.-H. Yang and W.-H. Liu An investigation of time delay estimation in room acoustic environment using magnitude ratio	378
M. Eisenkraft, D.M. Kato and L.H.A. Monteiro Spectral properties of chaotic signals generated by the skew tent map	385
S. Nagaraj and J. Xiao Best antenna selection for coded SIMO-OFDM	391
H. Zhong and X. Liu An effective focusing approach for azimuth invariant bistatic SAR processing	395