



Volume 90 Issue 4 April 2010 ISSN 0165-1684

SIGNAL PROCESSING

Special Section

Ethnic Music Audio Documents: From Preservation to Fruition

Guest Editors: S. Canazza, A. Camurri and I. Fujinaga

An International Journal

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





CONTENTS

Special Section: Ethnic Music Audio Documents – From Preservation to Fruition

S. Canazza, A. Camurri and L. Fujinaga Ethnic music audio documents: From preservation to fruition	977
A. Czyzewski, P. Maziewski and A. Kupryjanow Reduction of parasitic pitch variations in archival musical recordings	981
S. Godsill The shifted inverse-gamma model for noise-floor estimation in archived audio recordings	991
A. Rodà Perceptual tests and feature extraction: Toward a novel methodology for the assessment of the digitization of old ethnic music records	1000
O. Cornelis, M. Lesaffre, D. Moelants and M. Leman Access to ethnic music: Advances and perspectives in content-based music information retrieval	1008
T. Lidy, C.N. Silla Jr., O. Cornelis, F. Gouyon, A. Rauber, C.A.A. Kaestner and A.L. Koerich On the suitability of state-of-the-art music information retrieval methods for analyzing, categorizing and accessing non-Western and ethnic music collections	1032
A.C. Gedik and B. Bozkurt Pitch-frequency histogram-based music information retrieval for Turkish music	1049
N. Orio Automatic identification of audio recordings based on statistical modeling	1064
A. Dattolo Structuring and navigating ethnic music archives	1077

Regular Papers

I. Javorskyj, I. Isayev, J. Majewski and R. Yuzefovych Component covariance analysis for periodically correlated random processes	1083
T. Naghibi, M. Namvar and F. Behnia Optimal and robust waveform design for MIMO radars in the presence of clutter	1103
A. Zollanvari and M.A. Masnadi-Shirazi A class of comprehensive constraints for design of PCWLSE Laguerre and FIR filters: A boost in performance	1118
J. Wu, X. Chen and H. Gao H_∞ filtering with stochastic sampling	1131

K. Sabri, M. El Badaoui, F. Guillet, A. Belli, G. Millet and J. Benoit Morin Cyclostationary modeling of ground reaction force signals	1148
A.A. Milani, G. Kannan, I.M.S. Panahi and R. Briggs Analysis and optimal design of delayless subband active noise control systems for broadband noise	1153
F. Pascal and A. Renaux Statistical analysis of the covariance matrix MLE in K-distributed clutter	1165
Y. Du, C. Belcher, Z. Zhou and R. Ives Feature correlation evaluation approach for iris feature quality measure	1176
L. Durak and S. Aldirmaz Adaptive fractional Fourier domain filtering	1188
B. Safarinejadian, M.B. Menhaj and M. Karrari Distributed variational Bayesian algorithms for Gaussian mixtures in sensor networks	1197
C. Rizogiannis, E. Kofidis, C.B. Papadias and S. Theodoridis Semi-blind maximum-likelihood joint channel/data estimation for correlated channels in multiuser MIMO networks	1209
B. Ristic, M. Morelande and A. Gunatilaka Information driven search for point sources of gamma radiation	1225
R. Lu, Y. Xu and A. Xue H_∞ filtering for singular systems with communication delays	1240
Z. Li, Q. Liu, H. Lu and D.N. Metaxas Lennard-Jones force field for geometric active contour	1249
P. Rajavel Directional Hartley transform and content based image retrieval	1267
H.D. Cheng, R. Min and M. Zhang Automatic wavelet base selection and its application to contrast enhancement	1279
H.-C. Lu, G.-L. Fang, C. Wang and Y.-W. Chen A novel method for gaze tracking by local pattern model and support vector regressor	1290
D. Ampeliotis and K. Berberidis Low complexity multiple acoustic source localization in sensor networks based on energy measurements	1300
C.-C. Tseng and S.-L. Lee Design of fractional delay filter using discrete Fourier transform interpolation method	1313
Fast Communications	
S. Lou and G. Bi Aliased polyphase sampling	1323
D. Choi, H. Do, H. Choi and T. Kim A blind MPEG-2 video watermarking robust to camcorder recording	1327
Corrigendum	
Y.-C. Liaw, J.Z.C. Lai and Z.-C. Hong Corrigendum to "Fast block matching using prediction and rejection criteria" [Signal Processing 89 (2009) 1115–1120]	1333
Call for Papers	
Acknowledgement to reviewers	