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#### **Topics:**

Filter design and structures Fast algorithms Adaptive filters Nonlinear Signals and Systems Multirate filtering and filter banks Signal reconstruction Time-frequency analysis Spectral estimation Higher order spectrum analysis Parameter estimation Detection Array signal processing Statistical signal analysis Signal and system modeling Cyclostationary signal analysis Speech production and perception Speech analysis Speech synthesis Speech coding Speech recognition Speech enhancement and noise reduction Active noise control Active noise reduction Echo cancellation Psychoacoustics Broadband audio coding Signal processing for music Binaural systems Room acoustics Digital transforms HDTV Multidimensional systems Machine vision Image coding Image motion / sequence / video Computed imaging Geophysical and seismic processing Image analysis and segmentation Image filtering, restoration and enhancement Image representation and modeling Pattern recognition Neural networks Fuzzy Systems Evolutionary computation Expert systems Multisensor Data Fusion Architectures and VLSI hardware Programmable signal processors Algorithms and applications mappings Design methology and CAD tools Languages and real time software Real time system estimation Optimization problems in signal processing Radar Sonar Biomedical processing Geophysical signal processing Underwater signal processing Remote sensing Robotics Astronomy Classification Crime on the Web Security. Publicity. Privacy. Reputation Frauds in Business Reputation Satellite signals processing Measure and Instrumentation

#### Articles:

<u>Unearthing Clues to Reduce the Devastating Effects of Earthquakes: The Hilbert-Huang Transform</u>
Silvia Garcia, Miguel Romo

Boundary Effects Reduction in Wavelet Transform for Time-frequency Analysis Hang Su, Quan Liu, Jingsong Li

## **About Fourier Transform**

Luiza Grigorescu, Gheorghe Oproescu, Ioana Diaconescu

<u>Fusion of Infrared and Visual Images Using Bacterial Foraging Strategy</u>

Rutuparna Panda, Manoj Kumar Naik

Efficient Algorithm for Enhancement of Images Corrupted by Salt & Pepper Noise Shyam Lal, Mahesh Chandra

Heuristic Search Method for Digital IIR Filter Design

Ranjit Kaur, Manjeet Singh Patterh, J. S. Dhillon, Damanpreet Singh

Novel Particle Swarm Optimization for Low Pass FIR Filter Design

Sangeeta Mondal, S. P. Ghoshal, Rajib Kar, Durbadal Mandal

Signal Detection for OFDM and DS-CDMA with Gradient and Blind Source Separation Principles

M. G. S. Sriyananda, J. Joutsensalo, T. Hamalainen

An Optimal EEG-based Emotion Recognition Algorithm Using Gabor Features

Saadat Nasehi, Hossein Pourghassem

A New Approach to Diagnose Induction Motor Defects based on the Combination of the TSA Method and MCSA Technique

Nabil Ngote, Saïd Guedira, Mohamed Cherkaoui

An Adaptive Matrix Embedding Technique for Binary Hiding With an Efficient LIAE Algorithm Jyun-Jie Wang, Houshou Chen, Chi-Yuan Lin

A New Feature Reduction Method and Its Application in the Reciprocating Engine Fault Diagnosis
Ma Jin, Jiang Zhinong

<u>A Lossless Image Compression Algorithm Using Predictive Coding Based on Quantized Colors</u> Fuangfar Pensiri, Surapong Auwatanamongkol <u>Combined Fuzzy Logic and Unsymmetric Trimmed Median Filter Approach for the Removal of High Density Impulse Noise</u>

T. Veerakumar, S. Esakkirajan, Ila Vennila

<u>Facial Expression Recognition Based on Local Binary Patterns and Local Fisher Discriminant Analysis</u> Shiqing Zhang, Xiaoming Zhao, Bicheng Lei

<u>The Voice Segment Type Determination using the Autocorrelation Compared to Cepstral Method</u>
Old?ich Horák

**Bound the Learning Rates with Generalized Gradients** 

Sheng Baohuai, Xiang Daohong