Recent Patents on Signal Processing

Special thematic issue on “Multimedia signal processing: Recent Advances and Applications”

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Aims & Scope: The rapid increase in computing power and communication speed, coupled with computer storage facilities availability, has led to a new age of multimedia applications. It is a very active field, where different disciplines intersect creating great opportunities for new and stimulating research directions. Multimedia signal processing has been widely encountered in our daily life. It deals with algorithms for the processing of signals which are used by humans for communication with other people or machines or dealing with the world around. This special issue aims to promote research in multimedia signal processing in a modern era by revisiting classical methods, proposing new techniques, and boosting novel applications.

Key words: Image Processing, Signal processing, wavelets, soft computing, Data Compression, Digital Watermarking, Machine Vision, Fractal, Soft Computing, Medical image processing & retrieval.

Topics of interest include, but are not limited to:

- Multimedia signal denoising and enhancement
- Watermarking & authentication
- Interpolation & super resolution
- Perception inspired multimedia signal processing technique.
- Multimedia content analysis and event detection
- Multimedia activity and event understanding
- Multimedia security and forensics
- Joint multimodal processing and analysis
- Multimedia indexing and retrieval
• Semantic analysis of multimedia data
• Signal quantization and source coding
• Multimedia coding and compression
• Multimedia signal mining and data fusion
• Multimedia sensing and sensory systems
• Bio-inspired multimedia processing
• Biomedical signal processing
• Applications: sharpness, contrast, and resolution enhancement
• Applications in medical images (CT, MRI, ultrasound, etc.)
• New applications: legacy materials, HD/3D/mobile displays, web-scale data, etc.

**Important Dates:**

Manuscript submission due: 1 June, 2015
First review completed: 1 September 2015
Revised manuscript due: October 2015
Notification of acceptance by the Guest Editors: 1 November, 2015
Final manuscript due: 1 December, 2015