DIGITAL SIGNAL PROCESSING

AUTHOR INFORMATION PACK

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DESCRIPTION

Digital Signal Processing: a Review Journal is one of the oldest and most established journals in the field of **signal processing** yet it aims to be the most innovative one. The journal invites top quality research articles at the frontiers of research in all aspects of signal processing. Our objective is to provide a platform for the publication of groundbreaking research in signal processing with both academic and industrial appeal.

The journal has a special emphasis on **statistical signal processing** methodology such as **Bayesian** signal processing, and encourages articles on emerging areas in signal processing which do not find space in other journals of the field. These include: environmental signal processing, stochastic modelling of biological and chemical processes, seismic signal processing, financial time series analysis, stochastic calculus, geophysical signal processing, systems biology, chemioinformatics, signal processing for human-computer interaction and intelligent user interfaces, signal processing for audio, visual and performance arts, signal processing for disaster management and prevention, signal processing for renewable energy, game theory and group theory for signal processing, information theory articles with a signal processing perspective.

Papers in the classical application areas of signal processing such as telecommunications, speech and image processing are welcome only if they contain novel research. Purely application oriented articles in these areas should be submitted to the relevant dedicated journals. Similarly, authors who would like to submit on areas of neural networks or fuzzy sets are invited to submit their work to the appropriate journals.

Digital Signal Processing: a Review Journal also aims to publish at least one high quality review article in every issue and to provide focus issues with special emphasis on emerging topics. Discussion articles in which several leading researchers discuss the future of a specific research area are also welcome.

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INTRODUCTION

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The journal is a time-saving aid to electronic engineers and to researchers, scientists, and corporate managers who want to keep abreast of vital research and information that is typically scattered among a number of separate publications.

Digital signal processing, a discipline that spans electrical engineering, computing, mathematics and the physical sciences, includes applications such as:

• Image processing • Neural networks • Pattern recognition • Digital communications •Biomedical applications • Speech processing • Underwater acoustics •Radar signal processing •Astronomy • Geophysical data analysis

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