

Signal Processing in Audio and Acoustics

Abstract: The special session « Signal Processing in Audio and Acoustics » deals with advanced signal processing methods for sound generation, coding and reproduction and for sound control. Special emphasis is given on multichannel methods, which are under active investigation for various applications. The presenters of this session are experts from universities and leading research institutions.

The relevance of the proposed Special: **Signal processing is the enabling technology of all recent advances in recording, generation, coding, transmission and reproduction of audio signals. Furthermore signal processing has also become an indispensable tool for measurement and instrumentation in acoustics. These applications have stimulated new research topics in digital signal processing such as the use of psychoacoustics for audio coding or multichannel signal processing for audio recording and reproduction. The contributions in this special session highlight multichannel audio signal processing, new advances in digital audio coding and digital sound synthesis.**