

# Special Issue Call for Papers

## Paper Submission

Authors are encouraged to submit high-quality, original work that has neither appeared in, nor is under consideration by, other journals. All open submissions will be peer reviewed subject to the standards of the journal. Manuscripts based on previously published conference papers must be extended substantially.

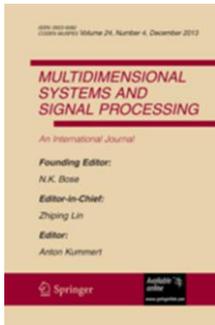
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Manuscripts should be submitted to: <http://MULT.edmgr.com>. This online system offers easy and straightforward log-in and submission procedures, and supports a wide range of submission file formats.

## Important Dates

- Submissions:  
January 15, 2016
- First reviews due:  
March 15, 2016
- Second reviews due:  
July 15, 2016
- Final submissions due:  
October 15, 2016

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## Array Signal Processing and Systems

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Arrays play an important role in spatio-temporal signal processing with applications spanning across multiple fields such as electromagnetic (EM), acoustics, ultrasonic and seismic processing systems. In the EM domain, antenna arrays have extensive applications in wireless communications, radar, source location and microwave imaging, where electronically-steered apertures are used for the directional enhancement (or rejection) of planar waves. In radio astronomy and experimental cosmology sparse arrays are being used where the large number of grating lobes are used in conjunction with correlation beamformers towards sampling the spatial frequencies of interest. Dense aperture arrays on the other hand use Nyquist sampled array geometries and are mostly used for time-domain beamforming and imaging. In areas of acoustic engineering, acoustic arrays are used for object localization and tracking by sound, acoustic monitoring, speech enhancement as well as recognition.

This plethora of possible applications has sparked a large number of new theoretical developments and array processing systems in the last few years. In general, arrays have analog RF, digital and mixed microwave-digital realizations. This special issue is devoted to the most important of these developments. Both original research articles and review articles in relevant fields are covered. Potential topics related to array processing include, but not limited to:

- Source localization, direction of arrival (DOA) estimation
- Beamforming, interference mitigation, jammer rejection, pattern synthesis
- Space-time adaptive processing (STAP) and its applications
- Array signal processing for MIMO systems, e.g. MIMO radar and massive MIMO
- Array system design, measurements and experimental validations
- New applications of sensor array signal processing

Guidelines for authors can be found at <http://www.springer.com/11045>. Prospective authors should submit high quality and original manuscripts. All papers will undergo the same rigorous MSSP review process. Please refer to the MSSP website for detailed instructions on paper submission. Please choose "SI: Array Signal Processing and Systems" as the Article Type.



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