Call for Papers

Special Section on Spatial Acoustic Signal Processing and Applications

The IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences announces a forthcoming special section on “Spatial acoustic signal processing and applications” in the September 2014 issue.

Computer technology has rapidly reached maturity in recent years. Various applications based on speech or acoustic signal processing technologies have been consequently realized in real-time. Speech and acoustic signal processing technologies have therefore grown toward the transition stage. The turning points are that sound field reproduction and active control of sound in 3-dimensional spatial acoustic fields can be realized in real-time with low-end computers. In addition, new acoustic reproduction devices such as a parametric array loudspeaker (PAL) should also attract many attentions. The aim of this special issue (scheduled to appear in the Sep. 2014 issue) is therefore to publish technical papers reflecting the most recent research and application results and identify new challenges in spatial acoustic signal processing. The topics of interests within the scope of this special section include the following areas in signal processing:

- 3D Sound Field Reproduction
- Active Control of Sound (including Noise)
- Speaker-array Signal Processing
- Sound Image Localization
- Signal Processing for Parametric Array Loudspeaker

* If the editorial committee finds that the topic of a paper does not fall in the scope of this special section, the manuscript may be returned to the author without a review.

Submission Instructions

It is recommended that the length of a paper for this special section does not exceed eight and two printed pages for a full paper and a letter, respectively. Please refer to Information for Authors of the Transactions for the format and the style. Information for authors can be found at the IEICE web site: http://www.ieice.org/eng/shiori/mokuji_ess.html. Please note that this special section will accept papers only by electronic submission. Submit a complete paper and electronic files (TeX/Word files, figures, authors’ photos and biographies) for publishing using the IEICE Web site https://review.ieice.org/regist regist_baseinfo_e.aspx. Please chose “[Special-IG] Spatial Acoustic Signal Processing and Applications” in your submission. The submission deadline is December 9, 2013, 24:00 JST. In addition, “Copyright Transfer Form” and “Confirmation Sheet” must be sent by e-mail, fax or postal mail* to the following address:

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The “Copyright Transfer Form” and “Confirmation Sheet” must be received not later than December 9, 2013.

* The paper cannot be put in the review process until both the paper and its Copyright Transfer Form have been received. A delay of the Copyright Transfer Form is likely to lead to transfer of the paper to the regular section because of a limited review period that is much shorter than the regular section.

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* Please note that if the paper is accepted, the authors are requested to pay for the page charge covering partial cost of publication. Authors will receive 50 copies of reprints for the page charge.

* At least one of the authors must be an IEICE member when the manuscript is submitted for review. For membership applications, please visit the following web page: http://www.ieice.org/eng/member/OM-appli.html.