

Call for Papers

Special Issue of the IEEE Transactions on Computers .

Emergent Systems, Algorithms and Architectures for Speech-based Human-machine Interaction.

In recent years, there has been a significant progress on software and hardware techniques for human-machine interaction, specially, for speech-based one. While highly successful in the core and many commercial applications have resulted from the progress, the techniques have a long way to improve, specially in areas of speech signal processing, speech/audio source separation, robustness of speech systems, speech modeling, learning algorithms, real-time decoding algorithms, speech quality enhancement, speech synthesis, speaker identification, and so on, for further impacting on speech-centric human-machine interaction. This special issue intends to bring such techniques among the researchers in the field and promote new methods that may prove useful for further research in this area.

Topics: Papers showing mature results of research, advancing the state-of-the-art in terms of systems, algorithms or architectures for speech-based human machine interaction, are expected, particularly involving:

- speech recognition
- speaker identification
- speech enhancement
- speech and audio source separation
- speech synthesis
- voice morphing
- methods to assist users in speech production and in processing the auditory scene,
- other related applications.

Submission procedure: Please, submit your paper to Manuscript Central at <http://cs-ieee.manuscriptcentral.com/>, selecting this special issue's title. Submitted articles must not have been previously published or currently submitted for journal publication elsewhere. As an author, you are responsible for understanding and adhering to our submission guidelines. You can access them by clicking on <http://www.computer.org/mc/tc/author.htm>. Please thoroughly read these before submitting your manuscript. Feel free to contact the Peer Review Manager, Suzanne Werner at swerner@computer.org or the guest editors at guido@ifsc.usp.br , deng@microsoft.com or maki@cslab.kecl.ntt.co.jp , if you have any questions.

Important dates:

- Submission Deadline:..... September 12, 2006.
- Completion of First Round of Reviews:..... November 10, 2006.
- Major Revisions Due:..... January, 10, 2006.
- Completion of Second Round of Reviews:..... February 12, 2006.
- Minor Revisions Due:..... February 26, 2006.
- Final Decisions Due:..... March 5, 2006.
- Acceptance Letters Sent to Authors:..... March 7, 2007
- Publication Materials Due:..... March 23, 2007.
- Tentative Publication Date:..... August, 2007.

GUEST EDITORS

Rodrigo Capobianco Guido University of São Paulo, Brazil. e-mail: guido@ifsc.usp.br	Li Deng Microsoft Research, USA. e-mail: deng@microsoft.com	Shoji Makino NTT CS Labs, Japan. e-mail: maki@cslab.kecl.ntt.co.jp
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