



# Special issue on Speech Separation and Recognition in Multisource Environments

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One of the chief difficulties of building distant-microphone speech recognition systems for use in 'everyday' applications is that the noise background is typically 'multisource'. A speech recognition system designed to operate in a family home, for example, must contend with competing noise from televisions and radios, children playing, vacuum cleaners, and outdoors noises from open windows. Despite their complexity, such environments contain structure that can be learnt and exploited using advanced source separation, machine learning and speech recognition techniques such as those presented at the 1<sup>st</sup> International Workshop on Machine Listening in Multisource Environments (CHiME 2011).

This special issue solicits papers describing advances in speech separation and recognition in multisource noise environments, including theoretical developments, algorithms or systems.

Examples of topics relevant to the special issue include:

- multiple speaker localization, beamforming and source separation,
- hearing inspired approaches to multisource processing,
- background noise tracking and modelling,
- noise-robust speech decoding,
- model combination approaches to robust speech recognition,
- datasets, toolboxes and other resources for multisource speech separation and recognition.

## **Submission instructions:**

Manuscript submissions shall be made through the Elsevier Editorial System (EES) at

<http://ees.elsevier.com/csl/>

Once logged in, click on "Submit New Manuscript" then select "Special Issue: Speech Separation and Recognition in Multisource Environments" in the "Choose Article Type" dropdown menu.

## **Important dates:**

November 30, 2011: Paper submission

March 30, 2012: First review

May 30, 2012: Revised submission

July 30, 2012: Second review

August 30, 2012: Camera-ready submission

## **Guest Editors:**

Jon Barker, University of Sheffield, UK

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