The main objective of the special issue is to present the recent advances in distributed source coding and draw the attention of the signal processing community to a rapidly evolving domain and its applications.

Distributed Source Coding (DSC) establishes its grounds in the information theoretic results derived by Slepian and Wolf and Wyner and Ziv at the beginning of the 70s. This research area became very active in the past decade, triggered by the application of DSC principles in the first distributed video coding (DVC) designs. Following a series of successful developments, DVC has gained momentum as a competitive coding paradigm, notably by providing a flexible distribution of computational complexity between the encoder and the decoder, codec independent scalability, robust transmission, and suppression of inter-camera communication in multiview video coding applications. The research in distributed source coding has continued to flourish, expanding in a broad range of domains, including wireless sensor networks, data authentication and tampering localization, biometrics, medical imaging, or hyperspectral imaging.

Potential topics include, but are not limited to:

- Side information generation techniques
- Correlation channel estimation
- Error resilience in DSC systems
- Scalability in DSC systems
- Theoretical analysis and code design in DSC
- Symmetric schemes for DSC
- Distributed video and multiview video coding
- Distributed multiple description source coding
- Feedback channel free distributed video coding
- DSC in wireless sensor networks
- DSC for data authentication and tampering localization
- DSC in secure biometrics applications
- DSC for multispectral and hyperspectral image compression
- DSC in medical applications
Submission Schedule
► Manuscript submission due by July 1, 2013
► First round of editorial decision by September 15, 2013
► Final editorial decision by December 1, 2013
► Publication date by May 2014

Submission Instructions
Before submission, authors should carefully read over the Instructions for Authors, which are located at asp.eurasipjournals.com/authors/instructions. Prospective authors should submit an electronic copy of their complete manuscript through the SpringerOpen submission system at asp.eurasipjournals.com/manuscript according to the submission schedule. They should choose the correct Special Issue in the “sections” box upon submitting. In addition, they should specify the manuscript as a submission to the “Special Issue on Advances in Distributed Source Coding” in the cover letter. All submissions will undergo initial screening by the Guest Editors for fit to the theme of the Special Issue and prospects for successfully negotiating the review process. Prospective authors are strongly encouraged to contact the co-guest Editors who will be compiling the issue.

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