

Call for Papers

IEEE Journal on Emerging and Selected Topics in Circuits and Systems (Vol. 2, Issue 3, October 2012)

SPECIAL ISSUE ON CIRCUITS, SYSTEMS AND ALGORITHMS FOR COMPRESSIVE SENSING

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Scope and Purpose

The IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS) seeks original contributions for an issue on circuits, systems and algorithms for compressive sensing, scheduled to appear in October 2012.

Compressive sensing (CS) is an emerging discipline which has recently attracted increasing attention thanks to its ability to guarantee data compression during the signal acquisition phase and decompression/reconstruction thanks to suitable optimization algorithms (such as L1 and L0- norms minimization). These recent results have generated an explosion of research activity in a wide range of applications, ranging from radar signal to biomedical imaging and from data processing in sensor networks to multipath channel estimation. Aim of this issue is to move a step forward by linking the most recent results in CS theory and algorithms towards the actual circuits and systems implementing them, to achieve the desired application improvement.

Topics of Interest

Topics of interest for this issue include, but are not limited to:

- Foundations and concepts of CS
- Algorithms for CS signal reconstruction
- Circuits and Architectures for CS
- Design and implementation of circuits/systems based on CS (RF receivers, A/D converters, Image Sensors)
- Image processing applications
- Biomedical signal applications
- Radar signal applications

Submission Procedure and Publication Timeline

Authors are encouraged to submit high-quality contributions following the instructions provided on the JETCAS website:

<http://jetcas.polito.it>

Prospective authors should submit PDF versions of their papers electronically no later than **February 15, 2012**. Acceptance/rejection decisions will be notified to the contact authors by **May 1, 2012**. In case some revisions will be necessary, authors will be requested to submit improved versions of their manuscripts by **June 1, 2012**. Final acceptance/rejection decisions will be taken by July 1, 2012. Camera-ready versions of the accepted manuscripts will be due **July 15, 2012**.