

## IEEE SIGNAL PROCESSING MAGAZINE

### Special Issue on Distributed Image Processing and Communications

The emergence of distributed image communication systems with multiple visual sensors has created the need for new signal processing and networking algorithms that are able to cope with the specific constraints imposed by the distributed architectures. They require in particular that the images are efficiently processed and transmitted without the help of any global knowledge of the signals, nor of the full system.

Distributed processing, coding and communication of visual information have thus recently gained much interest from the research community. There are still numerous challenges to be solved for designing efficient distributed imaging applications. The purpose of this special issue is to bring together leading experts in various disciplines such as image processing, image analysis, image coding, multimedia communication, distributed processing, and vision sensor design.

#### Scope of topics:

- Distributed processing and communication in visual sensor networks
- Distributed sensing and event detection
- Distributed coding of image sequences
- Distributed image communication
- Models, systems and applications for distributed image processing

#### Submission procedure:

White papers, limited to 2 single-space double-column pages, should summarize the motivation, the significance of the topic, a brief summary, an outline of the content and key references. Prospective authors should use the web submission system at <http://mc.manuscriptcentral.com/spmag-ieee>.

#### Schedule (all deadlines are firm no exceptions)

White paper due:	December 1, 2009
Invitation notification:	January 15, 2010
Manuscript due:	May 15, 2010
Acceptance Notification:	November 15, 2010
Final Manuscript due:	January 1, 2011
Publication date:	May 2011

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