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## **Special Issue on Coding and Modulation for Cooperative Communications**

In wireless communications, one of the major active research areas is cooperative communications, which has been recognized as one of the promising techniques for future high speed networks. As we recall in the past modem designs and high speed wired communications systems, coding and modulation had played one of the major roles for their advancements, such as trellis coded modulation (TCM) and OFDM (or DMT) systems, we believe that coding and modulation for cooperative communications will play a similar role for high speed wireless communications systems. The main goal of this special issue is to publish the research advances in this important area.

Topics of interest for this special issue include, but not limited to, the following:

- 1) Space-time coding for cooperative networks;
- 2) Analog network coding for cooperative networks;
- 3) Network coding for cooperative systems;
- 4) Joint coding and modulation issues;
- 5) Schemes for combating timing errors and frequency offsets from relays;
- 6) Efficient cooperative protocols and coding and modulation designs;
- 7) Relay strategies and coding/modulation designs;
- 8) Multi-way relay networks;
- 9) Signal processing algorithms for distributed decoding and demodulations;
- 10) Distributed space-time coding for OFDM systems in cooperative systems;
- 11) Practical implementation and measurement results for cooperative networks
- 12) Cooperation in cognitive radio systems

### **Important Dates:**

|                          |                           |
|--------------------------|---------------------------|
| Full manuscripts due:    | <b>September 30, 2009</b> |
| Acceptance notification: | November 30, 2009         |
| Final manuscripts due:   | January 1, 2010           |
| Publication date:        | March 1, 2010             |

### **Submission Procedure:**

We invite original, previously unpublished, research papers, review, survey and tutorial papers. Manuscripts should be written in English. All the papers should ideally not exceed 12 pages in length. The page limit includes all figures, tables, references, etc. Papers should be formatted into A4-size pages, with main text of 10-point Times New Roman, in single-spaced two-column format. Latex users can use IEEE Tran class as the formatting template.

Papers should be submitted electronically in PDF format to all Guest Editors' email addresses as below, with a title of "[JCM-SI] Submission: Cooperative Communications". In the email main text, please provide:

- Title of the paper;
- Names, email address, contact information, and affiliations of all authors (please identify the corresponding author);
- Confirmation that all authors have read and agree with the "Copyright" and "Page Charges and Re-Print" at <http://www.academypublisher.com/jcm/forauthors.html>.

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