Call for Papers

IEEE JSAC on Network Science

Over the past several years there has been increasing interest in studying the commonalities among multiple networks such as logistical networks, biological networks, financial and economic networks, transportation networks, cognitive networks, social networks, information networks and communications networks. Several possible cross-network commonalities have been identified and there's an emerging line of research that seeks a theoretical underpinning to these commonalities. Collectively these efforts are known as "network science". This JSAC issue seeks to highlight advances in network science.

Topics of interest for this issue include:

- Insights from other types of networks that can be applied to communications problems (e.g. applying concepts from biological networks to communications networks);
- Aggregate performance of combined networks (e.g. rather than modeling a social network and communications network separately, modeling them as one combined network);
- Transmission of information through combined networks (including contagion or cascade effects);
- Insights into the strengths and limitations of multi-network studies as applied to communications networks;
- Communications network design inspired by network science principles

More broadly, the issue welcomes any submission that is clearly applicable to communications networks and incorporates insights from non-communications networks.

Prospective authors should prepare their manuscripts in accordance with the IEEE J-SAC format described at http://www.jsac.ucsd.edu/Guidelines/info.html. Authors should submit a PDF version of their complete manuscript to http://edas.info/12217. The timetable is as follows:

- Manuscript submission: ~~1 August 2012~~ 15 August 2012 [EXTENDED]
- Acceptance notification: 15 December 2012*
- Final manuscript due: 1 February 2013
- Publication: Q2 2013

*The editorial team hopes to make decisions somewhat earlier to permit some papers to get a second round of reviewing before final submission.

The Guest Editor and Co-Editors for this issue are: Guest Editors: Craig Partridge (Raytheon BBN Technologies); Co-Guest Editors: Ananthram Swami (Army Research Lab), Tom La Porta (Penn State), Richard Gibbens (University of Cambridge), Ching-Yung Lin (IBM), Eiko Yoneki (Univ. of Cambridge, UK), Prithwish Basu (Raytheon BBN Technologies)