

# CALL FOR PAPERS

IEEE SIGNAL PROCESSING MAGAZINE

Special Issue on Signal and Information Processing for Social Learning and Networking

## Guest Editors

*Hervé Bourlard*

Idiap Research Institute/EPFL, Martigny, Switzerland ([herve.bourlard@idiap.ch](mailto:herve.bourlard@idiap.ch))

*Vikram Krishnamurthy*

University of British Columbia, Vancouver, Canada ([vikramk@ece.ubc.ca](mailto:vikramk@ece.ubc.ca))

*K. J. Ray Liu*

University of Maryland, College Park, MD ([kjrlu@umd.edu](mailto:kjrlu@umd.edu))

*Yan Lindsay Sun*

University of Rhode Island, Kingston, RI ([yansun@ele.uri.edu](mailto:yansun@ele.uri.edu))

*H. Vicky Zhao*

University of Alberta, Edmonton, Canada ([vzhao@ece.ualberta.ca](mailto:vzhao@ece.ualberta.ca))

The past decade witnesses the emergence and popularity of online social websites, blogs, instant messaging systems, and media-sharing networks. This trend poses new challenges to effective management of the resulting avalanche of information that people create, share and distribute over networks, as well as new challenges related to security/privacy issues. These new challenges call for novel solutions to study the impact of human behavior on social networks, to analyze how users learn from each other as well as from past experiences, and to understand people's cognitive and social abilities. This is an interdisciplinary research area, covering signal processing, social signal processing, information science, sociology, psychology, and economics, in which (multimodal) signal and (multimedia) information processing play a critical role. Development of novel information technology with consideration of social context will result in new techniques to create and share knowledge, new models of collective and social computing, new mechanisms to leverage the specific abilities of massive human participants, new ways to encourage and enhance large group communication, and new forms of culture.

This Call for Papers invites researchers to contribute tutorial-style articles that cover a broad range of topics related to social learning, computing and networking, with an emphasis on signal and information processing considering social context. Example topics include but are not limited to:

- Social intelligence, social cognition and social learning: collective intelligence, consensus formation, cognitive modeling, synthesis of social phenomenon and events, and machine learning/understanding
- Behavior modeling and analysis
- Trust, privacy, risk and security in social context
- Analysis, design and architectures of social systems: for example, peer-to-peer systems; electronic commerce; recommendation systems; Internet-based social communities; computer supported cooperative work; and tools, case studies and evaluation platform
- Multisensory capture, recognition and synthesis: automatic analysis and use of high-level social interaction patterns in augmented social environment
- Multimedia data mining, information retrieval and artificial intelligence in social context: with particular emphasis on the automatic extraction, analysis and modeling of social cues

## Submission Procedure

Prospective authors should submit their white papers to IEEE Signal Processing Magazine online manuscript submission website at <http://mc.manuscriptcentral.com/spmag-ieee>. Please follow the instructions on <http://www.signalprocessingsociety.org/publications/periodicals/spm/> when preparing the white paper.

## Schedule

White paper due:	November 15, 2010
Invitation notification:	December 15, 2010
Manuscript due:	April 1, 2011
Acceptance notification:	August 1, 2011
Final manuscript due:	November 15, 2011
Publication date:	March 2012