Call for Papers
ACM Transactions on Intelligent Systems and Technology (TIST)

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Special Issue on *Intelligent Systems for Socially Aware Computing*

1. Overview

Recent advance of pervasive computing technologies promises to significantly enhance the capabilities for data capture and data analysis. In this socially aware era, it holds great promise and challenge to use the sensory data to understand human behavior, human mobility, and human activities, and ultimately to help solve human social problems. The integration of pervasive computing and social computing results in a new emerging research field in computer science – Socially Aware Computing. While the concept of social awareness has been developed in the field of Computer Supported Cooperative Work for decades, the notion of Socially Aware Computation and Communication has only recently been raised by Alex Pentland, which promises to bring new light to the design of new software methodology, infrastructure, data analysis, and applications. This new paradigm aims to leverage the large-scale and diverse sensing devices that can be deployed in human daily lives to recognize individual behaviors, discover group interaction patterns, and support communication and collaboration.

Intelligent systems powered by artificial intelligence play an important role in realizing socially aware computing in various aspects, such as sensing, processing and supporting human interaction. This special issue will focus on intelligent systems and related applications for socially aware computing. The special issue seeks original research papers that report on the latest results and advances in this area. It will also consider a survey article that focuses on the state-of-the-art in intelligent systems for socially aware computing, highlighting trends and challenges. The papers will be peer reviewed and will be selected on the basis of their quality and relevance to the theme of this special issue.

2. Topics

Papers should include systems related research of socially aware computing. Topics of interests include, but are not limited to,

- Mobile social networking systems
- Location-based intelligent systems
- Collaborative recommender systems
- Large-scale pervasive sensing and search
- Human mobility understanding
- Community construction and evolution
- Pattern mining of human communication through phones, email, instant messaging
- Group interaction and collaboration
- Supporting social interaction with RFID, smart phones, and public displays
- Infrastructure, architectures, and platforms for socially aware systems
- Applications such as human health, public safety, city resource management, environment monitoring, and transportation management
- Evaluation of socially aware systems

3. Tentative Schedule

Submissions due: June 30, 2011
Notification of the first review process: Sep. 15, 2011
Final acceptance notification: Nov. 20, 2011
Final manuscript due: Nov. 30, 2011
Publication date: Spring 2012 (Tentative)

4. Submission Guidelines

Original manuscripts should be submitted through the Manuscript Central system at http://mc.manuscriptcentral.com/tist. Please select "Special Issue: Intelligent Systems for Socially Aware Computing" as the manuscript type. Further details on manuscript preparation as well as publication policies are available on the ACM TIST Web site at http://tist.acm.org/authors.html.

5. Guest Editors

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