Special Issue on
Analyzing, Mining, and Modeling Collective Phenomena on Online Social Media

CALL FOR PAPERS

This special issue invites innovative contributions in the quickly fast-growing field of online behavior modeling and data mining. Online social media have become the most popular application in the age of Web 2.0. With the large user base and real-time property, online social media increasingly demonstrate their strength of information dissemination. Due to their easy and free access, online social media provide an opportunity to analyze how information travels through social communities and to evaluate the public sentiment response and perception of social events. Therefore, to analyze, mining mine and model online user behavior, community structure, information diffusion, opinion formation, and other interaction processes can help to understand the essential mechanism of macroscopic phenomena and to provide early warnings of online emergencies. The related theory and methods include mathematics, statistics, computational and statistical physics, machine learning methods, and information theory.

This special issue focuses on mining algorithms of empirical data and models and analysis of collective dynamics on online social media.

Potential topics include, but are not limited to:

- Community identification of social networks
- Topological construction of user relationships
- User behavior modeling and prediction
- User sentiment mining and analysis
- Personalized recommendation system
- Essential mechanism of information diffusion and control
- Empirically modeling the formation and phase transition of public opinion
- Trend prediction of online topic propagation
- Evolutionary trend and phase transition prediction of public opinion
- Coevolution of individual opinions and underlying social networks
- Correlations between user behavior and opinion evolution
- Tools and methodologies used to analyze social media big data

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