Call for papers (Special Issue)

Future Generation of Computer Systems

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Editor-in-Chief: Peter Sloot

Special Issue on "Data Science in Social Media"

Overview

Social media has changed the way people communicate. Millions of people over the world use social media to share information and make connections. Anyone with Internet access can explain their experiences in a video, give their opinion about a fact, or show their photos to millions of other users. This has led **Social Media Analytics (SMA)** to an important growth over last year due to the amount of data shared. Gohfar F. Khan's defines SMA as *"the art and science of extracting valuable hidden insights from vast amounts of semistructured and unstructured social media data to enable informed and insightful decision making*". Different techniques have been created for analysing opinions towards a product, predicting elections results, studying how fake news spread through social networks. This has made the areas that work in this field very diverse: computer science, network science, social sciences, mathematical sciences, medical and biological sciences, financial, management and political sciences. Therefore, this special issue will be focused on:

1. the application of advanced data science and artificial intelligence techniques for knowledge extraction from social networks, to discuss new models and applications, futures trends and challenges on this area,
2. and the practical use of machine learning, soft computing, computational intelligence, big data, or natural language processing techniques, among others, and their application over complex social media-based domains (as can be seen at the main topics of this special issue).

Topics appropriate for this special Issue include, but are not necessarily limited to:

- Analysis of covert networks, Dark Web
- Anomaly detection in social network evolution
- Application of social network analysis and mining (e.g. Marketing, Polarization and Radicalization, etc.)
- Big Social Mining
- Community discovery and analysis in social networks
- Community embedding
- Clustering and Graph mining algorithms for Social Media
- Cybercrime and Social Networks
- Data models for social networks and Social Media
- Dynamic Community finding and discovery
- Entity disambiguation
- Evolution of communities/patterns on Social Media
- Impact of social networks on recommendations systems
- Information acquisition and establishment of social relations
- Information fusion in Social Media
- Intelligent data analysis in Social Media

- Large-scale graph algorithms for social network analysis
- Natural language understanding for Social Media
- Network formation and evolution
- Pattern representation and modelling for Social Networks
- Pattern analysis for Social Networks
- Personalization for search and for social interaction
- Scalability of social networking
- Search algorithms for Social Networks
- Sentiment Analysis and Opinion Mining in Social Media
- Statistical modelling of large networks
- Visualization in Social Media

Important Dates (Tentative schedule)

Submission deadline: February 15, 2018
Pre-screening notification: March 1, 2018
First round notification: April 15, 2018
Revision due: June 1, 2019
Final notification: July 1, 2019
Final Manuscript due: August 31, 2019
Tentative publication date: November-December, 2019

Instructions for Manuscripts:

Paper submissions for the special issue should follow the submission format and guidelines for regular Elsevier Journal of Future Generation Computer Systems at https://www.evise.com/evise/jrnl/FGCS. All the papers will be peer-reviewed following the FGCS reviewing procedures. Guest editors will make an initial determination of the suitability and scope of all submissions. Papers will be evaluated based on their originality, presentation, relevance and contributions, as well as their suitability to the special issue. Papers that either lack originality, clarity in presentation or fall outside the scope of the special issue will not be sent for review and the authors will be promptly informed in such cases. Authors should select "**SI: DSSM**" when they reach the "Article Type" step in the submission process.

The submitted papers must provide original research that has not been published nor currently under review by other venues. Previously published conference papers should be clearly identified by the authors at the submission stage and an explanation should be provided about how such papers have been extended to be considered for this special issue. Extended conference contributions must have at least **50%** difference from the original works (the authors must indicate the conference name and make the reference to the base conference paper).

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