



IJCIS: Call for Papers Special Issue 'Computational Intelligence for the Development, Security, and Management of Social Networks'



Guest Editors:

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Aims and Scope

A social network (SN) is a social structure and it is the combination of networks and graph theory. A SN contains two major parameters, viz. *nodes* (individual actors, people, or things within the network) and the *edges, ties or links* (interactions or relationships) that connect nodes. In SNs, social structures are visualized, e.g. friendship and acquaintance networks, social media networks, business networks, information circulation, knowledge networks, difficult working relationships, disease transmission, collaboration graphs, kinship, sexual relationships, etc. These networks are sometimes visualized using sociograms where nodes are represented by points and edges are represented by lines. Nowadays people massively use SNs throughout the globe. Hence social network analysis becomes an important issue and it is a key technique in modern sociology. The mobile and Internet technologies have been the primary force behind the rise of social media, providing technological platforms for information dissemination, interactive communications, content generation, etc.

Analysis of SNs is used extensively in a wide range of applications and disciplines, e.g. data aggregation and mining, network propagation modeling, network modeling and sampling, user attribute and behavior analysis, community-maintained resource support, location-based interaction analysis, social sharing and filtering, recommender system development, and link prediction and entity resolution, businesses use social network analysis to support activities such as customer interaction and analysis, information system development analysis, marketing, and business intelligence needs, development of leader engagement strategies, analysis of individual and group engagement and media use, community-based problem solving and many more.

Today, consumers constantly interact with social media. Companies are very eager to take advantage of our constant engagement with platforms such as Facebook, Twitter, Snapchat, etc. As a result, a growing number are incorporating artificial intelligence (AI) in social media to better connect with potential customers. Just a single click can impact what notifications pop up on our social media accounts, viz. posts, advertisements, friend suggestions, and more due to the use of AI.

This special issue focuses on bringing together researchers and practitioners from both academia and industry to develop and manage SNs. The aim of this special issue is to provide a forum in which to publish state-of-the-art articles for development, security, management, etc. of SNs. The research should relate to computational intelligence tools and theory.

Main topics and quality control

This special issue will contain the high-quality research articles on various issues of SNs.

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The major topics of interest include, but are not limited to:

- Design of social networks
- Performance analysis
- Community structure
- Digital humanities
- Dynamic network analysis
- Friendship paradox
- Mathematical sociology
- Network-based diffusion analysis
- Security analysis of social network
- Social media analytics
- Social media mining
- Social network analysis software
- Social networking service
- Software for social network
- Social network in classroom
- Textual analysis
- Applications of social network
- Intelligence system for social media
- Social media analytics
- Computational aspect in social media
- Web intelligence
- Internet and networks
- Fuzzy logic and social network

Full papers will be subject to a strict review procedure for final selection to this special issue based on the following criteria:

- Quality, originality and relevance in theory, methodology and application in social networks;
- Extended papers must contain at least 40% new material (qualitative) relative to the conference paper.

Important Dates

Submission of papers:	30 July 2020
Notification of review results:	30 Sep 2020
Submission of revised papers:	30 Oct 2020
Notification of final review results:	30 Dec 2020



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Submit your paper

All papers have to be submitted via the Editorial Manager online submission and peer review system. Instructions will be provided on screen and you will be stepwise guided through the process of uploading all the relevant article details and files associated with your submission. All manuscripts must be in the English language.

To access the online submission site for the journal, please visit <https://www.editorialmanager.com/ij-cis/default.aspx>. Note that if this is the first time that you submit to the International Journal of Computational Intelligence Systems, you need to register as a user of the system first.

NOTE: Before submitting your paper, please make sure to review the journal's [Author Guidelines](#) first.

Introduction of the guest editor(s)

Madhumangal Pal is currently a Professor of Applied Mathematics, Vidyasagar University. He has received Gold and Silver medals from Vidyasagar University for rank first and second in M.Sc. and B.Sc. examinations respectively. Also he received 'Computer Division Medal' from Institute of Engineers (India) in 1996 for best research work, Bharat Jyoti Award in 2012, along with other awards.

Prof. Pal has successfully guided 34 research scholars for Ph.D. degrees and has published more than 320 articles in international and national journals. His specializations include Algorithmic and Fuzzy Graph Theory, Fuzzy Matrices, Genetic and Parallel Algorithms, Soft Computing. Prof. Pal is the author of eight text books and two edited books published in India, United Kingdom, the USA. He has published 17 book chapters. Prof. Pal completed four research projects funded by UGC and DST, Govt. of India.

Prof. Pal is the Editor-in-Chief of 'Journal of Physical Sciences', 'Annals of Pure and Applied Mathematics', section editor of 'International Journal of Computational Intelligence Systems (SCI Index Journal)' and a member of the editorial boards of many journals.