

## *IEEE Transactions on Computational Social Systems*

### Special Issue on Hybrid Human-Artificial Intelligence for Social Computing

Social data are being accumulated in an unprecedented way from blogs, wikis, multiplayer games, video streaming communities, and other social media tools. The volume and complexities of social data is a big challenge for social computing. It is important to mine the hidden information and to analyze the social sense behind the social data. The recent boom of artificial intelligence technologies provides new opportunities to help improving the processing and mining of social data. Hybrid Human-Artificial Intelligence (H-AI) is the approach of combining the merits of both human intelligence and artificial intelligence, in order to exploit different AI technological capabilities in a harmonious way.

H-AI, is an excellent concept that combines both human and Artificial Intelligence (AI), paves a new way for processing incomplete or unstructured data by introducing human intervention in machine intelligence. H-AI can assist in improving the capabilities of mining and analyzing hidden information, including behavior recognition, intention prediction, and so on. Exploring H-AI for social computing may also improve decision making, and assist social sensing, social modeling, resource scheduling, and also aid in building a smart society for coexistence and coevolution.

This special issue aims to bring together researchers from both industry and academia to explore the potential of H-AI for social computing, including novel theories, concepts and paradigms as well as key techniques and typical applications. We invite authors to submit their latest original research results on the following topics, but are not limited to:

- H-AI for social computing theories, models and architectures
- H-AI for social network analysis/mining, behavior modelling
- Collective intelligence of H-AI
- H-AI in information diffusion, social contagion, and opinion formation
- Coevolution of H-AI and social computing
- H-AI social network analysis and modeling
- Security and privacy issues in H-AI social computing systems
- Novel applications of H-AI for social computing, including multi-agent systems, autonomous automotive systems, medical monitoring, process control systems, distributed robotics, and so on

#### **Important Dates**

Submission deadline:	Oct. 30, 2019
First round review:	Dec. 10, 2019
Second round review:	Jan. 20, 2020
Final acceptance:	Feb 28, 2020
Publication:	Mid 2020 (to be decided by the Editor-in-Chief)

## Submission Guidance

Preparation of manuscripts should refer to the guidelines in the “Author Information” on the IEEE Transactions on Computational Social Systems website: <http://www.ieeesmc.org/publications/transactions-on-computational-social-systems/call-for-papersand-special-issues>. Papers should be submitted through <https://mc.manuscriptcentral.com/tcss> . Please be sure to select the manuscript type “Hybrid Human-Artificial Intelligence for Social Computing”.

All submissions will undergo an initial screening by the guest editors for its fitness to the theme of the special issue and prospects for successfully negotiating the review process.

## Guest Editors

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