CALL FOR PAPERS

Special Issue on

Integrating Social Networks with IoT Solutions IEEE Transactions on Computational Social Systems

The IEEE Transactions on Computational Social Systems is accepting paper submissions for consideration in a September 2018 special issue on Social Networks. Social networks are one of the most popular used services in the last decade yet still fast-growing. The Internet of Things (IoT) promises billions of smart things interconnected and potentially will kick-start the next industrial revolution. Rapid advances in social networks, IoT, and other symbiotic technologies, such as cloud computing, fog computing, mist computing, machine-to-machine (M2M) communications, derive a strong need to integrate social networking into IoT and converge at a new paradigm named social Internet of things (SIoT). The symbiosis of IoT and social networks integrates computing, communication, sensing and system engineering, which is to produce significant social implications for both the devices and human.

From one angle, social networks and IoT converge at SIoT in which things establish social links as humans do. In this context, many challenges need to be addressed, such as how to design interaction mechanisms among the physical 'things', how to define social behaviours caused by physical things, how to efficiently utilize computation capabilities within the network, and how to discriminate social-based trust or malicious behaviours of things, etc. From another angle, in addition of providing sensing and actuation for things, SIoT provides perception of the society and prescription for humans. In this way, humans in SIoT does not play the role of passive acceptors of IoT services, and they play an active part that interact with things. The research of SIoT is an emerging topic, it is expected that there will be more angles, in additional to the ones we mentioned, to further significantly reshape this complex socio-technical system, waiting to be discovered.

INTERNET OF THINGS (IOT)

Important Dates

Submission Deadline:

31st Jan 2018

Reviews Completed:

31st May 2018
Expected Publication Date:

1st Sept 2018

This special issue aims to bring together researchers from both academia and industry to discuss the most recent advances on integrating social network with IoT solutions.

Special issues topics include, but are not limited to

- New architecture, protocols, topology of Social IoT systems
- Virtual objects and services in Social IoT systems
- Computation deploying and outsourcing in Social IoT
- High performance computation and edge computing
- Service discovery and management in Social IoT
- Security, Privacy, and Trust computing in Social IoT
- Ontology for the social relationships of things and humans
- Data reliability and mobility
- Risk assessment in Social IoT and applications
- Applications deployment in Social IoT
- Inter-things social relationships in Social IoT
- Things/human perturbation in Social IoT

Manuscript Submission

Preparation of manuscripts should refer to the guidelines in the "Author Information" on the IEEE Transaction on Computational Social Systems website:

http://www.ieee.org/publications_standards/publications/author_information.html

Please submit your papers through the online system

(https://mc.manuscriptcentral.com/tcss) and be sure to select the manuscript type "Special Issue on Integrating Social Networks with IoT Solutions."

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