



Call for Papers ACM/Springer Mobile Networks & Applications (MONET)

SPECIAL ISSUE ON

Cognitive Industrial Internet of Things

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Overview:

Cognitive Industrial Internet of Things (Cognitive-IIoT) is the use of cognitive computing technologies, which is derived from cognitive science and artificial intelligence, to power next generation Industrial IoT. With the growth and adoption of IoT, factories are becoming more instrumented and interconnected. Cognitive-IIoT provides high performance of communicating, computing, controlling, and even high degree of machine intelligence for emerging smart industrial IoT applications, such as cognitive manufacturing and Industry 4.0. Cognitive-IIoT redefines the relationship between human, machine and their pervasive digital environments. They may play the role of assistant or coach for the manufacturers, and industrial technologists. Specifically, the Industrial IoT generated industrial big data, when used to power predictive analytics algorithms or to develop a corps for a cognitive computing solution, can provide insights that would never be discovered in time to be useful if the departmental silos do not collaborate in data sensing and analysis. It is the integration of this data that enables cognitive computing applications for Industrial IoT of the next decade. Therefore, the services of a Cognitive-IIoT could be constructive, prescriptive, or instructive in nature.

This special issue aims to explore recent advances and disseminate state-of-the-art research related to Cognitive-IIoT on designing, building, and deploying novel cognitive computing, services and technologies, to enable smart industrial IoT services and applications. Both hardware and software (i.e., application level) solutions are solicited within the scope of call. Original, unpublished technical papers with novel and important contributions will be considered for the special issue; submitted papers must not be published, accepted or under review by another journal, and extended version of a journal paper must be so indicated and the extension must include a substantial improvement to the technical content of the paper. **Note that authors submitting to this MONET SI will have the opportunity to submit a shorter version of the paper to [3rd EAI International Conference on Industrial IoT Technologies and Applications](#), and will get published and indexed.**

Topics

Topics of interest include, but are not limited to, the following scope:

- Cognitive-IIoT architecture and infrastructure	- Contextual data management and mining platforms
- Cognitive computing, affective computing, machine learning for Industrial IoT	- Privacy protected discovery and adaptation in cognitive Cognitive-IIoT
- Cognitive-IIoT technology and applications	- Intelligent and interactive interface for Cognitive-IIoT
- Future networking design for Cognitive-IIoT	- Multi-modal fusion for Cognitive-IIoT

Important Dates:

- **Full paper submission deadline: April 18, 2018**
- Review decision: July 20, 2018
- Final version submission: Oct. 1, 2018
- Publication of special issue (tentative): 4th Quarter, 2018

Submission Procedure:

Authors should follow the MONET Journal manuscript format described at the journal site. Manuscripts should be submitted on-line through <http://www.editorialmanager.com/mone/>. A copy of the manuscript should also be emailed to the following email: dtian@buaa.edu.cn and longhu.cs@gmail.com. Authors need to register to submit their papers.

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