

Special Issue on

Data Engineering and Mining to Boost the Applications in Internet of Things and Web of Things

Call for Papers:

With the rapid developing and spreading of Internet of Things (IoT) and Web of Things (WoT), more and more smart devices and sensors are connected into the internet, such as smartphone, smart headset, smart watch, and intelligent vehicles. Massive data are generated from these smart devices and sensors per second over the world. These sustainable requirements push the technique track of data engineering and mining into the areas that are the emerging province of smart devices and sensors in the IoT and WoT, which mainly manifests the following two bottlenecks. On the one hand, limited to the volume of portable or wearable IoT device, it is impossible to handle emerging massive data in a timely manner. Mining useful information from massive data become crucial to boost the applications in IoT and WoT. On the other hand, in general, only a fraction part is useful among the data generated from massive smart devices and sensors. It is unnecessary to transmit all data in IoT and WoT. In this special issue, we are looking for cutting-edge research about data engineering and mining to boost smart applications in IoT and WoT and attempting to provide a forum for researchers, scientists, engineers and industrial practitioners to show their latest advancements about data engineering and mining in IoT and WoT applications.

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We invite researchers to contribute original and high-quality research articles that will seek the continuing efforts to understand the state-of-the-art novel technologies about data engineering and mining for handling huge data in IoT and WoT. The original papers are solicited on topics of interest that include, but are not limited to, the following:

- Technologies, frameworks, or algorithms for data engineering and mining in IoT and WoT
- Data-driven numerical simulations for IoT and WoT
- Data-based modeling for smart applications in wearable devices
- Data engineering and mining in IoT and WoT for Industry 4.0 applications, such as smart grid, smart vehicles, smart building, and smart manufacturing
- Data engineering and mining for news dissemination and public sentiment assisted by WoT
- Data engineering and mining for smart healthcare applications and analysis
- Machine learning-based data engineering for video and image processing
- Hybrid techniques for data engineering and mining in IoT and WoT
- Physics-informed learning for data engineering and mining in IoT and WoT
- Assistive Coaching based on data mining for smart scenarios, e.g., smart agriculture and smart training

The length of the articles should not exceed 6 pages in total. The guest editors maintain the right to reject papers they deem to be out of the scope of this special issue. Only original unpublished contributions and invited articles will be considered for this special issue. The papers should be formatted according to the ITL guidelines. Authors should submit a PDF

version of their complete manuscript via ITL submission portal at (<https://submission.wiley.com/journal/itl2>) according to the timetable below. For more information on formatting (Latex and word), please refer to <https://onlinelibrary.wiley.com/page/journal/24761508/homepage/forauthors.html>.

Important Dates:

Submission of manuscript deadline: November 30, 2023

Expected date of publication: December 2023

Guest Editors:

Professor Wojciech Mazurczyk, Warsaw University of Technology, Poland
(wojciech.mazurczyk@pw.edu.pl)

Professor Mustafa Muhammad Matalgah, University of Mississippi, USA
(mustafa@olemiss.edu)

Associated Professor Sudip Kumar Sahana, Birla Institute of Technology, Mesra, India
(sudipsahana@bitmesra.ac.in)

Assistant Professor Gaurav Garg, Chitkara University, Himachal Pradesh, India
(ergaurav.garg@yahoo.com)

Dr. Deepika Koundal, University of Petroleum and Energy Studies, Dehradun, India
(dkoundal@ddn.upes.ac.in)

Dr. Wenwei Yue (Managing GE), Xidian University, Xi'an, China (wwyue@xidian.edu.cn)