

DMSN 2022

Special Session on Data Management in Sensor Networks

at the 14th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022)

Almaty, Kazakhstan, June 6-9, 2022

Conference website: <http://www.aciids.pwr.edu.pl/>

Special Session Organizers

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Objectives and topics

Innovative sensor networks have been attracting widespread interest in recent years, able to provide valuable data for various applications (e.g., home automation, energy management). Various connected objects and environments have a wide range of impacts on people and environments, such as Smart homes, buildings, vehicle networks, and electrical grids who have become a paradigmatic trend. This has changed the way people live and work, how they handle health and safety, and how they interact with their surroundings. Sensor networks are currently experiencing rapid growth and are expected to continue to do so for years to come, giving birth to intelligently connected environments (e.g., smart buildings, cities, factories), creating a plethora of exciting applications that increase comfort and reduce energy consumption.

Essentially, the sensor network ecosystem enables users to collect and exchange large amounts of data, connect heterogeneous systems, and create complex systems for new forms of collaboration and interoperability. A new class of advanced services, such as environment monitoring, object tracking, event detection, advanced data analytics are available based on these types of data when they are transmitted to edge nodes, or directly to the cloud/server. Yet data and privacy management in sensor networks remain a core and challenging issue, despite the progress made. The nature of sensor networks makes it difficult to gather, aggregate, index, store, process, analyze, and process big data generated by resource-constrained sensor nodes per unit time.

This special session will showcase current state-of-the-art research covering all aspects of data management in sensor networks. Topics of interest are listed in the following:

- Modelling, simulation of sensor networks
- Architecture and Protocols for sensor networks
- Data gathering, storage and aggregation in sensor networks
- Data processing, indexing and discovery in sensor networks
- Data analytics solutions for sensor networks
- Knowledge discovery and decision-making automation in sensor networks
- Modelling, analysis, simulation, and verification of security, privacy, and trustworthiness for sensor networks
- Detection, evaluation, and prevention of threats and attacks in sensor networks
- Data security, privacy, and trustworthiness in sensor networks

Important dates

Submission of papers: **15 January 2022**
Notification of acceptance: **1 March 2022**
Camera-ready papers: **15 March 2022**
Registration & payment: **15 March 2022**
Conference date: **6-9 June 2022**

Program Committee (to be invited)

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- Sergio Ilalri, University of Zaragoza, Spain
- Sylvain Lefebvre, Toyota, TMC, France
- Wookey Lee, Inha University, Korea
- Yasufumi Takama, Tokyo Metropolitan University, Japan

Submission

All contributions should be original and not published elsewhere or intended to be published during the review period. Authors are invited to submit their papers electronically in pdf format, through EasyChair. All the special sessions are centralized as tracks in the same conference management system as the regular papers. Therefore, to submit a paper please activate the following link and select the track: **DMSN 2022: Special Session on Data Management in sensor networks**

<https://easychair.org/conferences/?conf=aciids2022>

Authors are invited to submit original previously unpublished research papers written in English, of up to 13 pages, strictly following the LNCS/LNAI format guidelines. Authors can download the Latex (recommended) or Word templates available at [Springer's web site](#). Submissions not following the format guidelines will be rejected without review. To ensure high quality, all papers will be thoroughly reviewed by the DMSN 2022 Program Committee. All accepted papers must be presented by one of the authors who must register for the conference and pay the fee. The conference proceedings will be published by Springer in the prestigious series LNCS/LNAI (indexed by ISI CPCI-S, included in ISI Web of Science, EI, ACM Digital Library, dblp, Google Scholar, Scopus, etc.).

