

AMCI 2022

Special Session on Adaptive Machine Learning in the Cloud Based IoT

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

Machine learning techniques are delivering a promising solution to the industry for building Internet of Things (IoT) systems and to make innovation at a rapid pace. The Open IoT cloud platform offers a framework for building large scale IoT applications relying on data gathered from a complex infrastructure of sensors and smart devices. Numerous challenges exist in implementing such a framework, one of them being to meet the IoT data and services (quality of service (QoS)) requirements on Industrial informatics based applications in terms of energy efficiency, sensing data quality, network resource consumption, and latency. AMCI 2022 Special Session at the 14th Asian Conference on Intelligent Information and Database Systems (ACIIDS 2022) is devoted to the original and high quality submissions. The scope of the AMCI 2022 includes, but is not limited to the following topics:

- Design and Evaluation of Energy Efficient Networks and Services in IoT
- Machine-Learning and Artificial Intelligence for Traffic/Quality of Experience Management in IoT
- Hybrid Intelligent Models and Applications for IoT in Industrial applications
- Nature-Inspired Smart Hybrid Systems for IoT Context-Aware Systems
- Machine learning and Data Analytics and Decision Automation in IoT for Industry
- Knowledge-Based Discovery with Evolutionary Algorithms for QoS in IoT devices
- Fuzzy Fusion of Sensors, Data and Information
- Meta-Heuristic Algorithms for IoT and wearable Computing
- Hybrid Optimization Methods Emerging real world and theoretical applications of IoT in Industry
- Innovative Deep Learning Architectures/Algorithms for Time Series Data and IoT
- Neural network modelling, analysis and synthesis techniques in ubiquitous communications
- Multi-Objective IoT System Modelling and Analysis—Performance, Energy, Reliability, Robustness
- Modelling and simulation of large-scale IoT scenarios and IoT standardization
- Machine learning for IoT and sensor research challenges: battery of sensor, routing, prediction of nodes etc.
- Quality aspects in the IoT (e.g., runtime dependability, assurances, validation, verification, privacy, security)
- State-of-practice, experience reports, industrial experiments, and case studies in the IoT

Important dates

Submission of papers: **January 15, 2022 (EXTENDED - HARD)**

Notification of acceptance: **March 1, 2022**

Camera-ready papers: **March 15, 2022**

Registration & payment: **March 15, 2022**

Conference dates: **June 6-9, 2022**

Program Committee (to be invited)

Prof. Olag Komogorsteve, Texas, State University, USA
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Prof. Kumar Vaibhav Srivastava, IIT Kanpur

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 Easy Chair. 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: AMCI 2022 Special Session on Adaptive Machine Learning in the Cloud Based IoT.

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

and select track - AMCI 2022 - Special Session on Adaptive Machine Learning in the Cloud Based IoT

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 AMCI 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.