IEEE International Workshop on Data Driven Intelligence for Networks and Systems (DDINS)

June 14–18, 2021
Montreal, Canada

IEEE ICC®

General Co-chairs

- Jinsong Wu, Universidad de Chile, Chile
- Celimuge Wu, University of Electro-Communications, Japan
- Periklis Chatzimisios, International Hellenic University, Greece

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- Xianfu Chen, VTT Technical Research Centre of Finland.
- Muhammad Imran, University of Glasgow, UK

Main contact

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Important Dates

- Paper submission deadline: **January 20, 2021**
- Notification of acceptance: February 20, 2021
- Camera-ready papers: March 1, 2021

Submission link

https://edas.info/N27513

Webpage link

https://icc2021.ieee-icc.org/workshop/ws-22-3rd-workshop-data-driven-intelligence-networks-and-systems

Scope

Network traffic is expected to grow exponentially in the next decade thanks to the advances in smart devices, Internet of Things (IoT) and cloud computing. Not only the volume of the traffic is increasing, the characteristics of the traffic are also becoming more diverse. To properly manage traffic diversity, different but coherent strategies are needed at different protocol layers, and this often results in complex designs in the network which are difficult to deploy and manage. The recent advancement in artificial intelligence (AI) technology has provided a promising approach to deal with complex problems faced in the network and/or systems design and operation. The trend towards highly integrated networks with diverse underlying access technologies to support simultaneously multiple vertical industries has demanded complex operation in the network and/or systems. This represents a great challenge in network and/or systems design.

Topics

We seek original completed and unpublished work not currently under review by any other journal/magazine/conference. Topics of interest include, but are not limited to:

- Data driven intelligence supported approaches and technologies
- Data driven intelligence supported applications and systems
- Quality of Service (QoS) and Quality of Experience (QoE) support
- Resource allocation and transmission scheduling
- Medium access control design
- Data centers and cloud systems
- Radio access technology selection
- Spectrum sharing in intra- and inter-tier HetNets
- Traffic load estimation and resource reservation
- User mobility prediction and handover support
- Network fault detection and self-healing
- Network self-configuration and self-organization
- Intrusion detection and self-protection
- Machine learning relevant topics
- Relevant Analysis and modelling

Paper Submission

The workshop accepts only novel, previously unpublished papers. The page length limit for all initial submissions for review is SIX (6) printed pages (10-point font) and must be written in English. All final submissions of accepted papers must be written in English with a maximum paper length of six (6) printed pages (10-point font) including figures. No more than one (1) additional printed page (10-point font) may be included in final submissions and the extra page (the 7th page) will incur an over length page charge of USD100. For more information, please see IEEE ICC 2021 official website: https://icc2021.ieee-icc.org/authors