

2nd Workshop on Edge Intelligence and Computing for IoT Communications and Applications

in 7th EAI International Conference on IoT as a Service (IoTAAS 2020)
November 19-20, 2020, virtual and beyond borders!

Website: <http://iotaas.org/>

<http://dx.doi.org/10.1007/978-3-030-434>

Scope and Topics of Interests

Nowadays, billions of IoT devices, e.g., sensors and RFIDs, arise around us providing not only computing intensive, but also delay-sensitive services, ranging from augmented/virtual realities to distributed data analysis and artificial intelligence. Unfortunately, in many application scenarios, the low response latency for IoT services are achieved at the cost of computing-complexity that far exceeds the capabilities of IoT devices. To feed this trend, multiple computing paradigms emerge, such as mobile transparent computing, edge computing, fog computing and big data analytics based framework. These paradigms employ more resourceful edge devices, e.g., small-scale servers, smart phones and laptops, to assist the low-end IoT devices. By offloading the computing-intensive tasks to the edge devices, it is expected to converge the data collection at IoT devices and the data processing at edge devices to provision computing-intensive and delay-sensitive services. However, lots of issues remain in the application of edge computing which impede its flourish in IoTs.

This workshop will solicit original research and practical contributions which advance the computing offloading and edge intelligence regarding the architecture, technologies and applications. Surveys and state-of-the-art tutorials are also considered. This workshop aims to bring together the active researchers in this field to share their timely and solid works on the Edge Intelligence and Computing for IoT Communications and Applications. Through this forum, it is expected to provide a comprehensive overview on this topic and inspire more valuable research orientations. The topics related to the Edge Intelligence and Computing for IoT Communications and Applications include (but are not limited to):

- Architecture design for edge computing and intelligence in IoTs
- Data-driven energy consumption and delay model of edge computing in IoTs
- QoS-aware computing offloading in IoTs
- Edge intelligence and computing software design in mobile IoTs
- The management of software in edge intelligence and computing for IoTs
- Communication protocol design for edge intelligence and computing in IoTs
- Convergence of energy harvesting and computing offloading in IoTs
- Security, privacy, integrity, and trust in IoT computing offloading
- Hardware design and prototyping for edge intelligence and computing in IoTs
- Testbeds and simulation platforms for edge intelligence and computing in IoTs
- Big data framework and analytical optimization for edge intelligence and computing in IoTs
- Key scenarios/applications for edge intelligence and computing in IoTs (e.g., connected vehicles).
- Green network design and optimization for IoT

Submission Guidelines

Authors are invited to submit original papers EAI 'Confy' system, and have to comply with the Springer format: TBD

Keynote Speaker

TBD

Workshop Organizers

- **General Co-Chairs**
Xiang Chen, Sun Yat-sen Univ., chenxiang@mail.sysu.edu.cn
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- **Publicity Co-Chairs**
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Important Dates

- **Paper Submission Deadline:**
June 30, 2020(Extended)
- **Notification of Acceptance:**
August 1, 2020
- **Camera-Ready Submission:**
September 15, 2020