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WORKSHOP – 3RD EIMC

Call for Workshop Papers

3rd Workshop on Edge Intelligence and Mobile Computing for 5G and Beyond Communications and Applications

17 November, join with EAI IoTaaS 2022 remotely in Guangzhou, China

Online Participation for Workshop

Scope

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 is 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, smartphones, 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 impedes 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.

Topics of Interest

Topics include, but are not limited to the following research topics:

- 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
- Vehicular and mobile computing 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

Submissions

Papers should be submitted through EAI 'Confy+' system, and have to comply with the Springer format (see Author's kit section).

We invite workshop participation through contributions that respond to one or more of the mentioned research questions in form of a full paper (12-20 pages) or a short paper (6-11 pages).

SUBMIT HERE

Publication

All registered papers will be submitted for publishing by **Springer** and made available through SpringerLink Digital Library: IoTaaS Conference Proceedings.

IoTaaS proceedings are **indexed** in leading indexing services, such as Web of Science, Compendex, Scopus, DBLP, EU Digital Library, Google Scholar, IO-Port, MathSciNet, Inspec, and Zentralblatt MATH.

Authors of selected best accepted and presented papers will be invited to submit an extended version to:

- Wireless Networks (WINET) Journal [IF: 2.602 (2020)]

All accepted authors are eligible to submit an extended version in a fast track of:

- EAI Endorsed Transactions on Scalable Information Systems (Open Access) – indexed in **ESCI, Ei Compendex & Scopus**
- EAI Endorsed Transactions on Internet of Things (Open Access)

Additional publication opportunities:

- EAI/Springer Innovations in Communications and Computing Book Series
  (titles in this series are indexed in Ei Compendex, Web of Science & Scopus)

Bio of Workshop Organizers

Xiang Chen is an associated professor at School of Electronics and Information Technology, Sun Yat-sen University. He received the B.E. and Ph.D. degrees both from the Department of Electronic Engineering, Tsinghua University, Beijing, China, in 2002 and 2008, respectively. From July 2008 to July 2012, he was with the Wireless and Mobile Communication Technology R\&D Center, Research Institute of Information Technology in Tsinghua University. From August 2012 to December 2014, was with Tsinghua Space Center, School of Aerospace, Tsinghua University. Since January 2015, he serves as an associate professor at School of Electronics and Information Technology, Sun Yat-sen University, Guangzhou, China. He is also with Research Institute of Tsinghua University in Shenzhen as a chief researcher (part-time). His research interests mainly focus on 5G wireless communications, Internet of Things, and software radio.

Yanzhao Hou received the Ph.D. degree from the Beijing University of Posts and Telecommunications (BUPT), Beijing, China, in 2014. He is currently with the National Engineering Laboratory for Mobile Internet, BUPT. His current research interests include next-generation wireless networks, software-defined radio, vehicular networks, and trial systems. He received the Best Demo Award from the IEEE APCC 2018.

Kai Liang, received the Ph.D. degree in information and communications engineering from Xidian University, Xi'an, China, in 2016.,From September 2014 to September 2015, he was a Visiting Research Student with the University of Essex, Colchester, U.K., funded by the China Scholarships Council. He is currently a Lecturer with the State Key Laboratory of Integrated Service Networks (ISN), Xidian University, China. His current research interests include network slicing, multiaccess edge computing, and wireless-powered communications.,Dr. Liang has co-organized two workshops at IEEE Global Communications Conference (GLOBECOM) 2019 and 2020.

Zhiyuan Jiang, received the B.E. and Ph.D. degrees from the Electronic Engineering Department, Tsinghua University, Beijing, China, in 2010 and 2015, respectively.,He is currently a Professor with the School of Communication and Information Engineering, Shanghai University, Shanghai, China. He visited the WiDeS Group, University of Southern California, Los Angeles, CA, USA, from 2013 to 2014. He worked as an Experienced Researcher with Ericsson, Beijing from 2015 to 2016. He visited ARNG, University of Southern California from 2017 to 2018. He worked as a Wireless Signal Processing Scientist with Intel Labs, Hillsboro, OR, USA, in 2018. His current research interests include URLLC in wireless networked control systems and signal processing in MIMO systems.,Dr. Jiang received the ITC Rising Scholar Award in 2020, the Best Paper Award at IEEE ICC 2020, the Best In-Session Presentation Award of IEEE INFOCOM 2019, and the Exemplary Reviewer Award of IEEE WCL in 2019.

Workshop Organizers

General Chairs
Xiang Chen
Sun Yat-sen University, China

Zhiyuan Jiang
Shanghai University, China

Program Chairs
Yanzhao Hou
Beijing University of Posts and Telecommunications, China

Kai Liang
Xidian University, China

Lisheng Fan
Guangzhou University, China

Publicity Chairs

Han Zhang
South China Normal University, China

Rong Yu
Guangdong University of Technology, China

Keynote speakers

Prof. Yuanzhang Xiao
Hawaii University, Hawaii

Prof. Tsunghui Chang
CUHK-SZ

Workhop TPC members

Whai-En Chen
National Ilan University, Taiwan

Terng-Yin Tsu
National Chiao Tung University, Taiwan

Yu-Chee Tseng
National Chiao Tung University, Taiwan

Chong-Yung Chi
National Tsing Hua University, Taiwan

Ray-Guang Cheng
National Taiwan University of Science and Technology, Taiwan

Zesong Fei
Beijing Institute of Technology, China

Sheng Zhou
Tsinghua University, China

Jie Gong
Sun Yat-sen University, China

Shan Zhang
Beihang University, China

Jie Xu
University of Miami, U.S.

Important dates

Workshop Paper Submission deadline

25 September 2022

Notification deadline

10 October 2022

Camera-ready deadline

25 October 2022

Date of Conference

17 November 2022

This event is a part of

EAI Conference series

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