Call for Presentations

EIC 2022

The 1st International Workshop On Edge Intelligent Computing (EIC)
Oct. 11th, 2022
Co-located workshop with ESWEEK 2022
(Hybrid, Shanghai)

https://eic-esweek.girhub.io/

Organizers:

Keni Qiu
Capital Normal University (CNU), China
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Lei Yang
George Mason University (GMU), USA
lyang29@gmu.edu

Important Dates:

Submission Deadline
Sept. 30th, 2022, AOE

Acceptance Notification
Oct. 3rd, 2022

Presentation
9:30am-12:00am, Oct. 11th 2022 (GMT+8)

Best Presentation Award:

Four submissions will be invited for the regular presentation section at the EIC workshop. Selected entries will not be published in the workshop proceedings. The top winner will receive a Best Presentation Award with a prize of 150USD or 1,000Yuan RMB.

Aims and Scope:

Edge Intelligent Computing (EIC) is an emerging technology paradigm appealing for extensive Internet of Things (IoT) scenarios such as environment monitoring, disaster warning, meta cyberspace. However, low power and constrained hardware resources impose critical design challenges in the process of EIC systems' real-world implementation. In this workshop, we are not only interested in the advanced edge computing technologies, but also bring a focus on how to implement the computation-/data-intensive machine learning algorithms on IoT edge devices. The workshop will bring together both scientists and engineers from academia and industry who are working on Edge Intelligent Computing architectures and systems.

Topics of Interest:

Topics of the workshop will include but not limit to:

- Edge computing architectures
- Edge computing software co-design
- State-of-the-art edge computing systems
- Intermittent computing systems
- Energy harvesting systems
- Low power ML algorithm optimization
- Low power Processing-In-Memory (PIM) accelerators
- Nonvolatile processors
- FPGA-based edge intelligent computing
- Design-space exploration for edge intelligent computing systems
- Cross-layer design methodologies for edge (intelligent) computing
- Compiler and OS optimization for edge (intelligent) computing
- Modeling, simulation and analysis for edge computing systems
- Case study for edge intelligent computing systems.

Submission Guidelines:

A one-page abstract related to a regular paper published in conferences or journals after **1 January 2021** is required for our presentation submission. The authors need to explicitly state that their paper has been accepted or published in a conference or a journal in the cover page. The submission is a long abstract in a PDF format with double-column, US letter size, using the IEEE Conference format, available at :

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

Each submission should include **a cover page** in a separate PDF file including:
1. Name, affiliation and address of each author;
2. A designated presenter, should the entry be accepted;
3. A statement on the related publication before;
4. The following statement: "All appropriate organizational approvals for the publication of this paper have been obtained. If accepted, the author(s) will select a speaker to present the work at the EIC Workshop."
5. Correspondent author, including his/her telephone number, fax number, email address, and his/her signature.

The abstract along with a cover page need to be sent to the workshop co-chairs: **Keni Qiu (qiukn@cnu.edu.cn)** and **Lei Yang (lyang29@gmu.edu)** by the deadline listed above.