

## Call for Contributions

**1. Inform the Chair:** with the Title of your Contribution

**2. Submission URL:**

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=ICNS+2021+Special>

Please select Track Preference as **EdgeIntelli**

**3. Note:** *For 2021, all events will be held in a hybrid mode: on site or virtual choices (live, prerecorded videos, voiced presentation slides, and .pdf slides). We hope for better times allowing us to return to the traditional on site scientific events. However, we are ready to adapt any which way the conditions dictate.*

Special track

## EdgeIntelli: Intelligence on the Edge

### Chair

Prof. Dr. Rute C. Sofia, fortiss, Germany

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### Co-chair

Prof. Dr. Jesse Luo, Shandong University, China, and Emocean GmbH, Germany

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along with

ICNS 2021, The Seventeenth International Conference on Networking and Services

<https://www.iaria.org/conferences2021/ICNS21.html>

May 30/June 3, 2021 Valencia, Spain

A Next Generation of Internet of Things (IoT) applications is bringing new requirements such as support for mobility of devices and users; the need for data and user privacy; larger volumes of sensitive data to be analysed, and new requirements to handle such data. The support for such applications require handling traffic and data locality and to provide a higher degree of automation across Edge and Cloud, in a way that is not necessarily tied to network policies nor to geographical boundaries.

The Edge definition itself is today elastic and not tied to a specific infrastructure boundary, and therefore, such Edge is also reaching end-user devices, such as smartphones, or smart sensors placed in industrial shop-floor environments.

This track is focused on the main theme of intelligent at the Edge, focusing on bringing together the latest advancements concerning integration of Artificial Intelligence (AI) on the Edge, in particular for industrial environments.

### Topics include, but not limited to:

- AI-enabled Edge solutions for monitoring/maintenance of equipment (network and end-user), e.g., production equipment.
- New opportunities, challenges, case studies, and applications of Edge-AI for industrial environments.
- AI-based solutions to support a decentralised, smart data exchange e.g., communication between machines/Edge controllers in industrial environments.
- How to best support AI engineering on such decentralised scenarios, via distributed AI approaches;
- Methods to best serve the challenges and constrains posed by realistic far Edge scenarios, in particular in regards to Industrial IoT scenarios;
- How can ML models be adapted to serve the constrains of IoT sensors (embedded devices), supporting as well challenges such as intermittent connectivity; mobility management.

### Contribution Types

- Regular papers [in the proceedings, digital library]

- Short papers (work in progress) [in the proceedings, digital library]
- Posters: two pages [in the proceedings, digital library]
- Posters: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Presentations: slide only [slide-deck posted on [www.iaia.org](http://www.iaia.org)]
- Demos: two pages [posted on [www.iaia.org](http://www.iaia.org)]

### **Important Datelines**

Inform the Chair or Coordinator: As soon as you decide to contribute

Submission: April 16, 2021

Notification: May 3, 2021

Registration: May 13, 2021

Camera ready: May 13, 2021

*Note: The submission deadline is somewhat flexible, providing arrangements are made ahead of time with the chair.*

### **Paper Format**

- See: <http://www.iaia.org/format.html>
- Before submission, please check and comply with the editorial rules:  
<http://www.iaia.org/editorialrules.html>

### **Publications**

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iaiajournals.org>
- Print proceedings will be available via Curran Associates, Inc.: <http://www.proceedings.com/9769.html>
- Articles will be archived in the free access ThinkMind Digital Library: <http://www.thinkmind.org>

### **Paper Submission**

<https://www.iaiasubmit.org/conferences/submit/newcontribution.php?event=ICNS+2021+Special>

Please select Track Preference as **EdgeIntelli**

### **Registration**

- Each accepted paper needs at least one full registration, before the camera-ready manuscript can be included in the proceedings.
- Registration fees are available at <http://www.iaia.org/registration.html>

### **Contact**

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