

Call for Contributions for

Note: Onsite and Online Options

In order to accommodate a large number of situations, we are offering the option for either physical presence or virtual participation. We would be delighted if all authors manage to attend in person, but are aware that special circumstances are best handled by having flexible options.

Submission:

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

2. Submission URL:

<https://www.iariasubmit.org/conferences/submit/newcontribution.php?event=UBICOMM+2020+Special>

Please select Track Preference as **AmIIoTE**

Special track

AmIIoTE: Ambient Intelligence in IoT Environments

Chair and Coordinator

Dmitry Korzun, Ph.D, Adjunct Professor, Leading Research Scientist
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along with

UBICOMM 2020, The Fourteenth International Conference on Mobile Ubiquitous Computing, Systems,
Services and Technologies

<http://www.iaria.org/conferences2020/UBICOMM20.html>

October 25-29, 2020 - Nice, French Riviera, France

Many digital devices (mobile or embedded) appear near people due to the Internet of Things (IoT). Such a device can be utilized to serve humans. Devices enable cooperative service construction. Any IoT environment can be considered as a smart or intelligent environment, since the goal is to produce smart services for its users. A smart service is characterized by such properties as context-awareness, personalization, information assistance, ubiquitous access, adaptation, pro-active delivery, and others. Service intelligence can be created based on the Ambient Intelligence (AmI). The environment provides multisource data and sensing possibilities. Data sources are people, information systems, Internet services, smart IoT objects, and embedded and mobile sensors. The data are fused and analyzed to derive the proper information to assist the user. First, the analysis is almost in real-time, when shared data are dynamically updated. Advanced solutions are needed to access up-to-date information. Second, the top relevant information facts are found among many appropriate ones. Advanced solutions to the information ranking problem are needed to efficiently assist the user. Plenty of different multimedia and mobile equipment are used to effectively deliver services as assistance information to users.

With this special track, we invite submissions with original research or review work focused on the Ambient Intelligence and Internet of Things environments.

Research and development **topics include but are not limited to:**

- Smart IoT technologies, platforms, and systems;
- Digital devices and network components for creating AmI in an IoT environment;
- Multisource data sensing and information exchange in an IoT environment;

- Fusing data from physical, cyber, and social worlds;
- Edge and Fog computing for IoT environments;
- Data mining by interaction of many IoT devices;
- Data analytics based on semantic relations discovered in multisource data;
- AmI implementation as a service of information assistance;
- Testbeds, applications, case studies, and social issues around creating AmI in an IoT environment.

Important Datelines

Inform the Chair: As soon as you decide to contribute

Submission: August 1, 2020

Notification: August 21, 2020

Registration: September 1, 2020

Camera-ready: September 1, 2020

Note: These deadlines are somewhat flexible, providing arrangements are made ahead of time with the chair.

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.iaria.org]
- Presentations: slide only [slide-deck posted on www.iaria.org]
- Demos: two pages [posted on www.iaria.org]

Paper Format

- See: <http://www.iaria.org/format.html> [both LaTeX and .doc templates]
- Before submission, please check and comply with the editorial rules: <http://www.iaria.org/editorialrules.html>
- More information on camera ready preparations will be posted after the paper notifications are sent out.

Publications

- Extended versions of selected papers will be published in IARIA Journals: <http://www.iariajournals.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

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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.iaria.org/registration.html>

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