

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=AICT+2021+Special>

Please select Track Preference as **OptDCCA**

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

OptDCCA: Optical Networking for Data Center and Computing Applications

Chairs

Dr. Xuwei Xue, Beijing University of Posts and Communications, China

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Prof. Shanguo Huang, Beijing University of Posts and Communications, China

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along with

AICT 2021, The Seventeenth Advanced International Conference on Telecommunications

<https://www.iaria.org/conferences2021/AICT21.html>

May 30/June 3, 2021 Valencia, Spain

To overcome the bandwidth bottleneck of electrical switches in data center networks and high-performance computing networks, switching the traffic in the optical domain has been considerably investigated as a future-proof solution supplying unlimited bandwidth. To date, many optical switch solutions have been investigated, exploiting various building blocks, such as 3D MEMS, LCoS display matrices, Mach-Zehnder interferometers, tunable lasers and AWGRs, and SOAs. Despite the promises held by the optical switching technology, the practical implementation of the optical switching networks is facing several challenges, such as the large-port switch design, fast optical switch control, reconfigurable optical network, and packet contention resolution, as well as the fast implementation of the software-defined optical network.

This track will embrace the recent developments to overcome the aforementioned challenges, which will provide quick expertise on the most recent optical switch technologies for researchers, senior graduates, and post-graduate students, professionals working in the telecommunications industry.

Topics include, but not limited to:

- Optical switch design and fabrication;
- Optical switching architectures in DCN and HPC;
- Optical packet contention resolution;
- Fast optical switch control; Flexible control scheduling;
- Software-defined optical networking.

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]
- Presentations: slide only [slide-deck posted on www.iaia.org]
- Demos: two pages [posted on 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=AICT+2021+Special>

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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.iaia.org/registration.html>

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