

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=ADVCOMP+2024+Special>

Please select Track Preference as **ASDIE**

3. Note: *For 2024, 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

ASDIE: Adaptive and Sustainable Digital Innovations for Fourth Industrial Revolution Ecosystems

Chair

Prof. Dr. Andreas Rausch, Technische Universität Clausthal, Germany

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Coordinators

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along with

ADVCOMP 2024: The Eighteenth International Conference on Advanced Engineering Computing and Applications in Sciences

<https://www.iaria.org/conferences2024/ADVCOMP24.html>

September 29 - October 03, 2024 - Venice, Italy

Currently, digital innovation drivers are changing the face of the global industry drastically, comparable to the steam engine or the introduction of the personal computer for industrial applications. This is especially the case for technologies like artificial intelligences, cloud- and edge computing, cyber-physical systems and machine cognition, which allow the alteration and adjustment of current processes on a whole new level and accelerate new developments faster than ever before.

Additionally, with the rise of climatic challenges, the need for sustainable solutions in nearly every branch of nowadays industry becomes more and more apparent. The incorporation of technology safeguarding more sustainability in the specific industrial branches is because of this fact an essential cornerstone which should be considered in the conception phase of modern systems. Therefore, new developments must not only be groundbreaking on a technological level but should further enable a shift towards a circular economy as well. Especially in the logistic and production industry, the necessity for new innovative and sustainable solutions, which feature an adaptability to fit multiple use-cases, are deeply needed and highly demanded. From autonomous mobility, over smart logistics to production and re-composition planning of products, the alignment of technological pioneering with attention to enabling more sustainable solutions is on an all-time high. Current processes must therefore be transformed and new concepts and research must be conducted in order to address the current barriers and challenges. The special track ASDIE at ADVCOMP 2024 therefore focuses on research contributions featuring novel developments and conceptions in this highly anticipated research field.

We invite contributions from academia, research, and industry. We welcome technical papers presenting research and practice results, position papers, review papers addressing key problems and solutions on any of the above topics, and short papers on work in progress.

Subtopics for contributions include, but are not limited to:

- Artificial Intelligence for sustainable logistics and production systems
- Cloud-based ecosystems for smart & sustainable logistic and production systems
- Digital & sustainable Services in the field of logistics and production
- Digital-aided design for sustainable production
- Cyber-security in the field of logistics and production for sustainable digital systems
- Automation design for sustainable logistics and production system
- Framework conception for sustainable logistics and production system
- Autonomous vehicle design and research for sustainable logistics
- Case studies and benchmark examples related to the above topics
- Experience reports related to all the above topics
- Tools and methods supporting all the above topics

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]

Important Datelines

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

Submission: ~~Aug 14, 2024~~ **August 28, 2024**

Notification: ~~Sept 1, 2024~~ **September 7, 2024**

Registration: Sept 11, 2024

Camera ready: Sept 11, 2024

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

Paper Format

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

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 Open 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>

Contact

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