eScience 2021:

17th IEEE International eScience Conference

Conference Information

Deadlines	Workshop Submissions Due: Monday March 15, 2021 Workshop Acceptance Notification: Tuesday March 30, 2021 Paper/Abstract & Tutorial Submissions Due: ~~Wednesday April 7, 2021~~ Thursday, April 15, 2021 Notification of Paper/Abstract and Tutorial Acceptance: ~~Tuesday, June 1, 2021~~ Thursday, June 10, 2021 Poster Submissions Due: Tuesday June 15, 2021 Notification of Poster Acceptance: Tuesday June 22, 2021 All Camera-ready Submissions Due: ~~Thursday July 22, 2021~~ Sunday, July 25, 2021 Conference Dates: September 20-23, 2021
Conference & Submission Link	https://escience2021.org/ https://easychair.org/conferences/?conf=escience2021
Conference Dates	September 20-23, 2021
Conference Address	Innsbruck, Austria
Proceedings indexed by	

Conference Call for Papers

The 17th IEEE eScience Conference will be held online on September 20 – 23, 2021.

eScience 2021 brings together leading interdisciplinary research communities, developers, and users of eScience applications and enabling IT technologies. The objective of the eScience Conference is to promote and encourage all aspects of eScience and its associated technologies, applications, algorithms, and tools with a strong focus on practical solutions and

open challenges. eScience 2021 interprets eScience broadly as enabling and driving innovation in data- and compute-intensive research across all domains ranging from traditional areas in the physical and earth sciences to emerging disciplines such as the social sciences, arts and humanities, and artificial intelligence for a wide variety of target architectures including HPC, cloud, and IoT infrastructures.

Science in all domains is becoming increasingly digital – from capturing and analyzing data in large scale experiments and simulations to the exploitation of machine learning and artificial intelligence techniques. However, many researchers face significant challenges in developing and using e-Infrastructures and associated software and workflows for their problems. Interdisciplinary approaches, combining numerical methods, computer science, and domain science, are needed to tackle these challenges. eScience 2021 provides a forum for researchers and engineers across scientific domains to meet and discuss their challenges and latest developments. Domains include, but are not limited to, life sciences, health research, digital humanities, and social sciences, engineering, physics, chemistry, astronomy, climate science, environmental science, and earth science. The conference targets, but is not limited to, the innovative application of digital technologies to research problems, the development of application software, tools, and libraries that enhance the efficiency and capabilities in the scientific process; and the development of e-Infrastructures providing the required hardware capacities and capabilities.

This year, the conference is soliciting three types of contributions:

- **Abstracts** (about 300 words) outlining early ideas on a possible research topic or more mature interdisciplinary developments
- **Full papers** (8 - 10 pages, IEEE format) presenting previously unpublished research achievements or eScience experiences and solutions
- **Posters** (2 pages, IEEE format) to showcase early stage results and innovations

All submissions will be peer reviewed; selected abstracts and full papers will receive a slot for an oral presentation. Posters will be presented during a poster reception. Full papers and poster papers will be published in the conference proceedings through the IEEE Digital Library.

To be eligible for an oral presentation, authors must submit their full paper or abstract before ~~Wednesday April 7, 2021~~ Thursday, April 15, 2021. Rejected full papers can be re-submitted for a poster presentation. All full papers are single-blind peer reviewed and, if accepted, published in the conference proceedings that will be made available online through the IEEE Digital Library. It is a requirement that at least one author of each accepted paper, abstract or poster attends the conference.

Due to the Covid-19 pandemic, eScience is planned as a fully virtual, worldwide online conference. The safety and well-being of our attendees and volunteers is of the upmost importance to us. Accepted papers and posters will be published in the conference proceedings and will be made available through the IEEE digital library.

Workshops and tutorials will be held on Monday, September 20 and Thursday, September 23, 2021. Please refer to the call for workshops and call for tutorials for further information.

Key Dates

Workshop Submissions Due: Monday March 15, 2021

Workshop Acceptance Notification: Tuesday March 30, 2021

Paper/Abstract & Tutorial Submissions Due: ~~Wednesday April 7, 2021~~ Thursday, April 15, 2021

Notification of Paper/Abstract and Tutorial Acceptance: ~~Tuesday, June 1, 2021~~ Thursday, June 10, 2021

Poster Submissions Due: Tuesday June 15, 2021

Notification of Poster Acceptance: Tuesday June 22, 2021

All Camera-ready Submissions Due: ~~Thursday July 22, 2021~~ Sunday, July 25, 2021

Conference Dates: September 20-23, 2021

Paper Submission Guidelines

Authors are invited to submit conference papers (8–10 pages) for an oral presentation using the IEEE 8.5x11 manuscript guidelines: double-column text using single-spaced 10-point font on 8.5x11-inch pages. Templates are available from http://www.ieee.org/conferences_events/conferences/publishing/templates.html.

Authors are invited to submit a 2-page paper for a poster presentation using the same template as for papers including figures and references.

Contributions should be submitted in PDF format to EasyChair: https://easychair.org/conferences/?conf=escience2021

Abstract Submission Guidelines

Authors are invited to submit abstracts (about 300 words) via the online form on https://easychair.org/conferences/?conf=escience2021.

Organization

General Chair

Thomas Fahringer (University of Innsbruck, Austria)

Program Chairs

Sinéad Ryan (Trinity College Dublin, Ireland)

Erwin Laure (Max Planck Computing and Data Facility, Germany)

Publicity and Web Chairs

Philipp Gschwandtner, University of Innsbruck, Austria

Rafael Ferreira da Silva, University of Southern California, Los Angeles, CA, USA

Workshop Chairs

Michela Taufer, University of Tennessee, Knoxville, USA

Flavio Vella, Free University of Bozen-Bolzano, Italy

Tutorial Chair

Peter Thoman, University of Innsbruck, Austria

Poster Chair

Carsten Trinitis, Technical University Munich, Germany

Local Chairs

Philipp Gschwandtner, University of Innsbruck, Austria

Peter Thoman, University of Innsbruck, Austria

Industry Chair

Sai Narasimhamurthy, Seagate Technology LLC, UK

Finance Chairs

Manuela Resch, University of Innsbruck, Austria

Silvia Haid, University of Innsbruck, Austria

eScience Steering Committee

See eScience Steering Committee page https://escience2021.org/steering-committee