

# eScience 2019 : 15th International eScience Conference

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## Conference Information

**Submission Deadline**  
Workshop Submissions Due: Monday April 1, 2019  
Workshop Acceptance Notification: Monday April 22, 2019  
Paper Abstracts Due: Monday May 13, 2019  
Paper & Tutorial Submissions Due: Monday May 20, 2019  
Poster Submissions Due: Monday May 27, 2019  
Notification of Paper, Tutorial & Poster Acceptance: Monday July 8, 2019  
All Camera-ready Submissions Due: Monday July 29, 2019  
Conference Dates: September 24-27, 2019

**Conference & Submission Link**  
<https://escience2019.sdsc.edu/>  
<https://easychair.org/conferences/?conf=escience2019>

**Conference Dates**  
September 24-27, 2019

**Conference Address**  
San Diego, CA, USA

**Proceedings indexed by**



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## Conference Call for Papers

The 15th eScience Conference will be held in San Diego, California in the United States of America from September 24 – 27, 2019.

eScience 2019 welcomes the international community of researchers and software engineers from all disciplines to present and discuss their scientific practices involving data science and computing. Researchers from the humanities to physics, engaged in collaborative data- or compute-intensive research, are invited to attend. The objective of the eScience Conference is

to promote innovation in collaborative, computationally- or data-intensive research across all disciplines, throughout the research lifecycle.

Science in a digital world presents new opportunities and challenges. One of these challenges is keeping up-to-date with the latest developments in computer science. Furthermore, some scientific disciplines are well advanced in exploiting computational technologies and data science, while others are just scratching the surface. The aim of this conference is cross-fertilization across scientific disciplines, to advance science by fully exploiting the use of technology and cyberinfrastructure. Disciplines include, but are not limited to: life sciences, health research, digital humanities and social sciences, physics, chemistry, astronomy, climate, environmental science, and earth science. Digital technologies include, but are not limited to: machine learning, natural language processing, real time data analysis, interoperability and linked data, multi-scale and multi model simulations, high performance computing, workflow technologies, reproducibility, visualization, open science and image processing.

This year, the conference is divided into special tracks in addition to the Main Track, namely:

- Computing for Physics
- eScience for the Humanities and Social Sciences
- Smart Grid Measurement and Modeling
- Software Tools & Infrastructure

This call for papers is for papers in all tracks of the conference, all in IEEE format. Three types of papers will be accepted:

- Research papers (Full papers 8-10 pages and Short papers 4 pages): focus on new research achievements in eScience, spanning core technologies and applications.
- Experience papers (Full papers 8-10 pages and Short papers 4 pages): focus on practical outcomes through applying eScience tools and techniques to novel problems.

- Posters (2 pages): focus on early stage results for presentation in a poster session, giving presenters a chance to showcase their latest results and innovations.

To be eligible for an oral presentation, you must submit the abstract of your full paper before Monday May 13, and your full paper before Monday May 20, 2019. Rejected full papers will also be considered for a poster presentation. All 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 attends the conference.

On the day prior to the conference there will be workshops and tutorials. Please refer to the call for workshops and call for tutorials separately.

In addition, this year, eScience is co-located with the Gateways conference. The two conferences will offer a shared keynote, presentations about mutually interesting topics, and a shared evening reception, as well as opportunities for mingling during the breaks. Conference attendees will have the option to register for one or both conferences, in full or in part. These two audiences share interests, content, and culture, and we will announce further details of our collaboration in 2019. This is an opportunity to attend both events!

## Key Dates

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## Paper Submission Guidelines

Authors are invited to submit conference papers (Full papers 8-10 pages and Short papers 4 pages) for an oral presentation using the IEEE 8.5 × 11 manuscript guidelines: double-column

text using single-spaced 10-point font on 8.5 × 11 inch pages. Templates are available from [http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](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 including figures and references.

Contributions should be submitted in PDF format to easychair:  
<https://easychair.org/conferences/?conf=escience2019> .

## Organization

### General Chair

Ilkay Altintas (San Diego Supercomputer Center, University of California San Diego, USA)

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David Abramson (University of Queensland, Australia)  
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Robert Sinkovits (San Diego Supercomputer Center, UC San Diego, USA)

## Poster Chairs

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## eScience Steering Committee

See [eScience Steering Committee](#) page

## Track Chairs

### Smart Grid Measurement & Modeling

Raymond de Callafon (University of California San Diego, USA)

### Software Tools & Infrastructure

Rafael Ferreira da Silva (University of Southern California, USA)  
Zhiming Zhao (University of Amsterdam, The Netherlands)

### eScience for the Humanities & Social Sciences

Molly Roberts (University of California San Diego, USA)

# Computing for Physics

Frank Wuerthwein (University of California San Diego, USA)