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CONFERENCE WEBSITE: <https://carlaconference.org/>

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## | About the Conference

CARLA 2025 will feature four exciting technical papers tracks: HPC (High-Performance Computing), HPC&AI, HPC Applications, and HPC Climate and Weather Modeling.

To submit a paper, please use the submission website: <https://meteor.springer.com/carla2025>

All papers accepted for publication will be included in the CARLA 2025 Proceedings, to be published in the Springer Communications in Computer and Information Science (CCIS) Series.

The following link contains the list of CCIS volumes for previous editions of the CARLA conference:  
<https://link.springer.com/conference/carla>

Track #1: High-Performance Computing (HPC)

Topics of interest include, but are not limited to:

- Parallel Algorithms
- Multicore Architectures and Accelerators
- Parallel Programming Techniques
- Parallel programming models, runtime systems, and middleware software
- Parallel computer architectures

### Important Dates

 **SEP 22**

CONFERENCE DATE  
**September 22-26, 2025**

- Grid, Cloud, and Edge Computing
- HPC Education and Outreach
- HPC Infrastructure and Datacenters
- Large-scale Distributed Systems
- Industrial Computing
- High-Performance Computing Tools
- Quantum computing

#### Track #2: Artificial Intelligence at HPC Scale

Topics of interest include, but are not limited to:

- Deep Learning
- Evolutionary Computing
- Fuzzy Systems
- Intelligence and Cybersecurity
- Knowledge Representation and Reasoning
- Machine Learning
- Natural Language Processing
- Neural Networks
- Social Network Analysis
- Uncertainty in Artificial Intelligence
- Computer Vision
- Cognitive Systems
- Data Mining
- Data Science

#### Track #3: High-Performance Computing

Applications

Topics of interest include, but are not limited to:

- HPC and Energy
- HPC and Environmental Concerns
- HPC and Life Sciences
- HPC in Science and Engineering
- Other Important HPC Applications

#### Track #4: HPC Climate and Weather Modeling

Topics of interest include, but are not limited to:

- HPC workflows for climate and weather forecasting
- GPU and accelerator computing for climate and

weather simulations

- Advances in this modeling domain enabled by HPC
- Computing resources and infrastructure needs for this modeling domain
- Techniques for deploying and optimizing models on HPC system

## SUBMISSION GUIDELINES

Authors must follow the Springer LNCS style for paper formatting.

You can find templates and more information at:

<https://www.springer.com/gp/computer-science/lncs/conference-proceedings-guidelines?srsIid=AfmBOootLxoKG8yecwz6XXAM9aHcc3ULaP5cyCPKdBmB44jjtaeCWrnM>.

Language: English (official conference language)

Maximum Length: 15 pages (including references)

Peer Review: Single-blind, reviewed by at least three experts

Originality: Submissions must be unpublished and not under review elsewhere

To begin the submission process, please register an account in the submission site and submit your paper, following the instructions.

For additional guidance with the paper submission, please reference

the Help Guides under the “Author Guidelines”

page on the Project Home Page

of the submission site.

### **TOPICS OF INTEREST**

3 topics

Research papers are invited in, but not limited to, the following areas:

☑ Uncategorized

Environmental  
◦ Science &  
Sustainability

Artificial  
◦ Intelligence &  
Machine Learning

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