CALL FOR PAPERS

M&C 2021

International Conference on Mathematics and Computational Methods Applied to Nuclear Science and Engineering

October 3-7, 2021 | Raleigh, North Carolina, USA

SUBJECT AREAS

1. Deterministic methods for particle transport
2. Monte Carlo and hybrid methods for particle transport
3. Mathematical methods in particle transport theory
4. Massively parallel algorithms and exascale computing
5. Computational fluid dynamics and thermal-hydraulics
6. Multiscale and multiphysics methods
7. Computational methods for reactor physics analysis
8. Stochastic media models
9. Reduced-order models in nuclear science and engineering
10. Modeling and simulations in high energy-density physics, plasma physics, and fusion
11. Computational methods in medical physics
12. Nuclear and atomic data, methods, and theory
13. Uncertainty quantification and sensitivity analysis
14. Data science and machine learning
15. Analytical solution, verification, and numerical methods analysis
16. Computational material science

APPLICATIONS

Physics of nuclear reactors

Radiation hydrodynamics

Advanced nuclear reactor systems

High energy-density physics experiments

Nuclear nonproliferation

Radiation detection

Fusion energy systems

Astrophysics

Atmospheric and climate sciences

Material science, manufacturing, and fabrication

Medical physics

AI-driven design, optimization, and discovery

Isotope production

Submission of Extended Summaries: **Tuesday, September 18, 2020**
Review Notification: **Monday, October 14, 2020**
Full Paper Deadline: **Tuesday, February 23, 2021**
Full Paper Notification: **Tuesday, March 30, 2021**
Paper Template and Authors Instructions: mc.ans.org
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