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CALL FOR PAPERS

M&C 2021

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

April 11-15, 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	Astrophysics
Radiation hydrodynamics	Atmospheric and climate sciences
Advanced nuclear reactor systems	Material science, manufacturing, and fabrication
High energy-density physics experiments	Medical physics
Nuclear nonproliferation	AI-driven design, optimization, and discovery
Radiation detection	Isotope production
Fusion energy systems	

Submission of Extended Summaries: Tuesday, September 18, 2020

Review Notification: Monday, October 14, 2020

Full Paper Deadline: Monday, November 23, 2020

Wednesday, December 23, 2020

Paper Template and Authors Instructions: mc.ans.org

Submit a Summary: ans.org/meetings

Contact Us: mc2021@meetings.ans.org