

M&C 2017

International Conference on Mathematics & Computational Methods
Applied to Nuclear Sciences & Engineering, April 16-20, 2017, Jeju, Korea

Special Session Description

Session Title: **Monte Carlo Variance Reduction, Hybrid and Response Methods and Applications**

Subject Area: 2. Monte Carlo Methods and Application

Organizer

Alireza Haghghat
Virginia Tech
Phone Number: (571) 858-3333
Email: haghghat@vt.edu

Co-Organizer

Ahmad Ibrahim
ORNL
Phone Number: (865) 576-0153
Email: ibrahimam@ornl.gov

Co-Organizer

Hyung Jin Shim
Seoul National University
Phone Number: +82-10-7636-6187
Email: shimhj@snu.ac.kr

Description

For achieving precise solution for real-world problems, Monte Carlo methods require significant computation time. Hence, significant efforts have been allocated to the development of advanced techniques which allow for achieving precise and accurate solutions in a short times.

This special session invites papers discussing new variance reduction techniques and algorithms, hybrid (Monte Carlo/deterministic) methods, and Monte Carlo based response function methods. Additionally, papers focused on the application and benchmarking of the aforementioned methodologies and related algorithms are encouraged.