ISC High Performance

TRANSFORMING THE FUTURE

MAY 29 – JUNE 2, 2022 | HAMBURG, GERMANY

Birds of a Feather on Software Engineering and Reuse in Modeling, Simulation, and Data Analytics for Science and Engineering

BOF website: http://bit.ly/swe-cse-bof| Please remember give feedback on ISC website!

Motivation and Goals

- CSE software developers already facing scientific demands for "bigger, better, and faster" modeling and simulation capabilities, entailing larger, more multidisciplinary and geographically dispersed development teams, must now also contend with significant architectural changes. Further, increases in data volume and complexity, and the increasing integration of "big data" (analytics) infrastructures (both hardware and software) raise additional SWE challenges.

- Our goal is to bring together people concerned about this topic to share existing activities, discuss how we can expand and improve on them, and share the results, complementing "traditional" venues for the academic (often versus practical) discussion of SWE for CSE, such as conferences and workshops.

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Organizers

Name	Affiliation
David E. Bernholdt	Oak Ridge National Laboratory
Anshu Dubey	Argonne National Laboratory
Mozhgan Kabiri chimeh	NVIDIA
Marion Weinzierl	Durham University
Weronika Filinger	EPCC
Jonathan Dursi	University Health Network

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Agenda

Time	Title	Speaker/Moderator	Affiliation
5 min	Introduction and Goals	Mozhgan K. chimeh	NVIDIA
	Lightening Talks	Weronika Filinger	EPCC
3 min	Software sustainability in experimental facilities	Anshu Dubey	Argonne National Laboratory
3 min	Code Refinery	Samantha Wittke	CSC - IT
3 min	software practice assessment tool	Greg Watson	Oak Ridge National Laboratory
3 min	Workflows Community Initiative	Rafael Ferreira da Silva	Oak Ridge National Laboratory
3 min	DiveRSE	Marion Weinzierl	Durham University
35 min	General Discussion	Mozhgan K. chimeh	NVIDIA
5 min	Wrap-up and Next Steps	Anshu Dubey	Oak Ridge National Laboratory

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Important Links

- BOF website: http://bit.ly/swe-cse-bof

- Mailing list signup: https://swe-cse-bof.groups.io/

- Discussion notes: http://bit.ly/isc22-bof-notes

- Please remember to give feedback on ISC website!