MEET YOUR PEERS, SIZE UP YOUR RIVALS AT ISC 2019

Be among the 3,500 members of the HPC research and commercial sectors at the largest HPC community forum in Europe to exchange ideas that will shape the industry and the community. The Program Chair Prof. Dr. Yutong Lu and the program committee have selected an array of contemporary topics that will introduce attendees to different technologies that are fueling innovation in HPC.

A MESSAGE FROM THE 2019 PROGRAM CHAIR

“I will do my best to improve the technical program, expand the range of participants, and present a conference that allows more people to take advantage of the latest technology developments in HPC.”

PROF. DR. YUTONG LU, NATIONAL SUPERCOMPUTING CENTER IN GUANGZHOU, CHINA

Prof. Yutong Lu is the Director of NSCC in Guangzhou, China. Her extensive research and development work has spanned several generations of domestic supercomputers in China, which includes her role as the deputy chief designer of the Tianhe supercomputers. She is also leading a number of HPC and big data projects under the support of the Chinese Ministry of Science and Technology, the National Natural Science Foundation of China, and Guangdong Province.
MEETING TOMORROW’S CHALLENGES TODAY

CONFERENCE KEYNOTE | MONDAY, JUNE 17
THE ALGORITHMS OF LIFE - SCIENTIFIC COMPUTING FOR SYSTEMS BIOLOGY

This address will present the challenges of developing algorithms for data analysis, inference, and simulations to help understand the myriad biological processes that drive living systems. As the Chair of Scientific Computing for Systems Biology on the faculty of computer science of TU Dresden, Sbalzarini is fostering innovative ways to apply scientific computing to the life science domain. He is also the Senior Research Group Leader at the Max Planck Institute of Molecular Cell Biology and Genetics, as well as a member of the Faculty of Mathematics of TU Dresden.

IVO SBALZARINI, CENTER FOR SYSTEMS BIOLOGY DRESDEN

SECOND-DAY KEYNOTE | TUESDAY, JUNE 18
HPC BEYOND MOORE’S LAW

Shalf will talk about how the erosion of Moore’s Law has impacted processor technology roadmaps and how it will affect the first exascale supercomputers scheduled to come online early in the next decade. Beside his role as the department head for the Computer Science Group at Berkeley lab, Shalf was recently the deputy director of Hardware Technology for the Department of Energy’s Exascale Computing Project. In his spare time, he has coauthored over 80 publications in the field of parallel computing software and HPC technology.

JOHN SHALF, LAWRENCE BERKELEY NATIONAL LABORATORY

FINAL KEYNOTE | WEDNESDAY, JUNE 19
HPC ACHIEVEMENT AND IMPACT – 2019

This closing address this year promises to be more forward-looking than usual, reflecting the anticipation of the first exascale systems expected to be deployed in just two years. An icon in the supercomputing community, Thomas Sterling holds the position of Professor of Intelligent Systems Engineering at the Indiana University School of Informatics, Computing, and Engineering as well as serves as the PI of the Continuum Computing Architecture Project at the Department of Intelligence Systems Engineering.

THOMAS STERLING, INDIANA UNIVERSITY
PROGRAM FOCUS

The conference will cover a multitude of rapidly evolving topics that are critical to the development of the high performance computing field. This year we present 13 topics, which will be addressed in various thought-provoking sessions.

HERE ARE OUR TOPICS FOR 2019:

- Next-Generation High Performance Components
- Exascale Systems
- Extreme-Scale Applications
- HPC and Advanced Environmental Engineering Projects
- Parallel Ray Tracing -- Visualization at its Best
- Blockchain Technology and Cryptocurrency
- Parallel Processing in Life Science
- Quantum Computers/Computing
- What’s New with Cloud Computing for HPC
- Parallel Programming Models for Extreme-Scale Computing
- Workflow Management
- Machine Learning and Big Data Analytics
- Deep Learning and HPC – State of the Art

EXHIBITION

As the most important HPC event in Europe, all top players in the industry with a stake in HPC are at the ISC Exhibition. This is a must-attend event for organizations and users in HPC, storage, networking, AI/machine learning, big data and cloud computing.
ISC ATTENDEE CATEGORIES

ISC attracts among others regional and international HPC users from universities, government laboratories, life sciences, weather/climate, energy, defense/security, aeronautics, automotive, chemical engineering, electronic engineering, financial services and retail.

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<td>Students</td>
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<td>Media</td>
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Source: ISC 2018 Attendee & Exhibitor Surveys

ATTENDEE COMMENTS

“It's a must for my professional existence.”
Marek Michalewicz, University of Warsaw

“I like attending ISC High Performance given the high quality talks.”
Arthur Bland, Oak Ridge National Laboratory

“Attending ISC every year is crucial for our business. It gives us a one-stop opportunity to meet with many customers who we might otherwise have to travel long distances to reach, as well as the chance to check out what our competition and partners are bringing to the market.”
Heather Stephens, ClusterVision
162 EXHIBITORS AND GROWING

Our returning exhibitors come from over 27 countries and they include providers of applications, cloud services, cluster management tools, consulting, data center equipment, data management & analytics, data storage, machine learning/deep learning, file systems, memory technologies, networks/interconnects, processors, research, software development tools and libraries, systems and servers and visualization.

TOP REASONS TO EXHIBIT

REACH YOUR AUDIENCE

ISC attracts over 3,500 HPC users, buyers and influencers seeking first-hand information on the latest supercomputing developments, products and solutions.

HIGHLIGHT YOUR VALUE

In the crowded field of HPC solutions providers, ISC offers one of the best opportunities to distinguish yourself from the rest of the crowd.

PROMOTE YOUR BRAND

Represent your company at the largest HPC event in Europe that draws significant media attention.

Exhibits Sales:

Mr. Josiah Tabor
sales@isc-group.com
FRANKFURT – THE CONFERENCE DESTINATION

- World’s third-largest exhibition facility
- Major transportation hub for Europe
- Huge range of hotels and restaurants
- A truly international city