Big Process for Big Data

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Frontiers in Computational and Information Sciences
Seminar Series

Presented by…

Dr. Ian Foster

- Arthur Holly Compton Distinguished Service Professor of Computer Science, University of Chicago
- Argonne Distinguished Fellow, Argonne National Laboratory

Abstract: Large and diverse data result in challenging data management problems that researchers and facilities are often ill-equipped to handle. Dr. Ian Foster will demonstrate a new approach to these problems based on the outsourcing of research data management tasks to software-as-a-service providers. This approach can both achieve significant economies of scale and accelerate discovery by allowing researchers to focus on research rather than mundane information technology tasks. Dr. Foster will present early results with the approach in the Globus Online data movement, synchronization, and sharing service as well as describe his experiences applying Globus Online to supercomputer and experimental facility data management, and outline future work aimed at incorporating data cataloging and analysis capabilities into the framework.

Bio: Ian Foster is the Arthur Holly Compton Distinguished Service Professor of Computer Science at the University of Chicago and an Argonne Distinguished Fellow at Argonne National Laboratory. He is also the Director of the Computation Institute, a joint unit of Argonne and the University. His research is concerned with the acceleration of discovery in a networked world. Dr. Foster is a fellow of the American Association for the Advancement of Science, the Association for Computing Machinery, and the British Computer Society. Awards include the British Computer Society's Lovelace Medal, honorary doctorates from the University of Canterbury, New Zealand, and CINVESTAV, Mexico, and the IEEE Tsutomu Kanai award.

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Room 1077

2:30pm