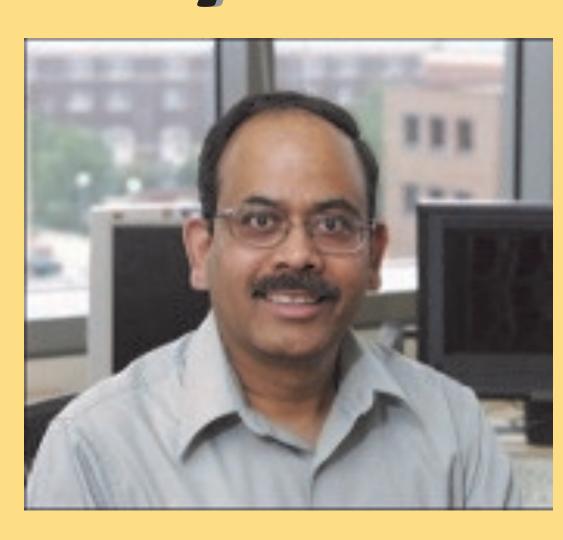# IEEE MTAGS 2012

5th ACM Workshop on Many-Task Computing on Grids and Supercomputers

http://datasys.cs.iit.edu/events/MTAGS12/

Keynote

Dr. Laxmikant (Sanjay) Kale
Professor
Parallel Programming Laboratory
Department of Computer Science
University of Illinois, Urbana Champaign

Invited Speakers

Petascale Challenge Award

Zhao Zhang
PhD Candidate
Distributed Systems Laboratory
Computer Science Department
Computation Institute
University of Chicago

Biggest Impact Award

Dr. Alexandru Iosup
Assistant Professor
Parallel and Distributed Systems Group
Engineering, Mathematics, and Computer Science
Technology University of Delft

Cloud Challenge Award

Dr. Judy Qiu
Assistant Professor
School of Informatics and Computing
Indiana University

Time	Title	Authors	Affiliation
9:00AM	*Opening Statements*	Ioan Raicu Yong Zhao Ian Foster Justin Wozniak	IIT/ANL UESTC UChicago/ANL
9:10AM	*Keynote -- Adaptive Runtime Systems meet needs of many task computing*	Laxmikant V. Kale	UIUC
10:10AM	*Break*		
Session I -- Middleware (Chair Reagan Moore, UNC)			
10:30AM	*Invited Talk -- Petascale Challenge Award* Data Management for Parallel Scripting	Zhao Zhang	UChicago
11:00AM	A Scalable Master-Worker Architecture for PaaS Clouds	Vibhor Aggarwal Shubhashis Sengupta Vibhu Saujanya Sharma Aravindan Santharam	Accenture
11:30AM	HOG:Distributed Hadoop MapReduce on the Grid	Chen He Derek Weitzel David Swanson Ying Lu	UNL
12:00PM	*Lunch*		
Session II -- MapReduce (Chair Daniel S. Katz, NSF)			
1:30PM	*Invited Talk -- Biggest Impact Award* IaaS Cloud Benchmarking: Approaches, Challenges, and Experience	Alexandru Iosup	TUDelft
2:00PM	Resource Management for Dynamic MapReduce Clusters in Multicluster Systems	Bogdan Ghit Nezih Yigitbasi Dick Epema	TUDelft
2:30PM	A Hybrid Scheduling Approach for Scalable Heterogeneous Hadoop Systems	Aysan Rasooli Douglas Down	McMaster
3:00PM	*Break*		
Session III -- Applications (Chair Yong Chen, TTU)			
3:30PM	*Invited Talk -- Cloud Challenge Award* Portable Data Mining on Azure and HPC Platforms	Judy Qiu	IndianaU
4:00PM	Community Accessible Datastore of High-Throughput Calculations: Experiences from the Materials Project	Dan Gunter Shreyas Cholia Anubhav Jain Michael Kocher Kristin Persson Lavanya Ramakrishnan Shyue Ping Ong Gerbrand Ceder	LBNL MIT
4:30PM	A Comparative Study of Data Processing Approaches for Text Processing Workflows	Ting Chen Kenjiro Taura	UTokyo
5:00PM	Software-as-a-Service: The iPlant Foundation API	Rion Dooley Matthew Vaughn Dan Stanzione Steve Terry Edwin Skidmore	TACC UArizona
5:30PM	*Best Paper Award* *Attendee Prize Giveaway -- Win a Kindle Fire HD Tablet* *Closing Statements*		

Organizers

Ioan Raicu
DataSys Laboratory
Computer Science Department
Illinois Institute of Technology
Math and Computer Science Div.
Argonne National Laboratory

Yong Zhao
School of Computer Science
and Engineering
University of Electronic Science
and Technology of China

Ian T. Foster
Distributed Systems Laboratory
Computer Science Department
Computation Institute
University of Chicago
Math and Computer Science Div.
Argonne National Laboratory

Justin Wozniak
Computation Institute
University of Chicago
Math and Computer Science Div.
Argonne National Laboratory