ACM DataCloud-SC11 2011 Concluding Remarks

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ACM DataCloud-SC11 2011
November 14th, 2011

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MTAGS 2011

4th ACM Workshop on Many-Task Computing on Grids and Supercomputers

http://datasys.cs.iit.edu/events/MTAGS11/

Keynote & Panelists

David Abramson
Computer Science
Monash e-Research Centre
Monash University
Australia

Dan Reed
Corporate Vice President
Technology Strategy and Pol-
icy and Extreme Computing
Microsoft Research

Jack Dongarra
Computer Science Department
University of Tennessee
Computer Science and Math. Div.
Oak Ridge National Laboratory

Daniel S. Katz
Computation Institute
University of Chicago
Math and Computer Science Div
Argonne National Laboratory

Time	Topic	Authors/Speakers	Affiliation
10:00AM	Introduction from the Chairs	Ioan Raicu Yong Zhao	Illinois Institute of Technology & Argonne National Lab. University of Electronic Science and Technology of China
10:10AM	**Keynote:** **Mixing Cloud and Grid Resources for Many Task Computing**	David Abramson	Monash University
11:00AM	**Panel:** **Many-Task Computing meets Exascales**	Dan Reed David Abramson Jack Dongarra Daniel S. Katz	Microsoft Research Monash University University of Tennessee & Oak Ridge National Laboratory University of Chicago & Argonne National Laboratory
12:00PM	Lunch		
1:30PM	**Parallel High-resolution Climate Data Analysis using Swift** Best Paper Award Finalist	Matthew Woitaszek John Dennis Taleena Sines	UCAR UCAR Frostburg State University
2:00PM	**A Dependency-Driven Formulation of Parareal: Parallel-in-Time Solution of PDEs as a Many-Task Application** Best Paper Award Finalist	Wael Elwasif Samantha Foley David Bernholdt Lee Berry D. Samaddar David Newman Raul Sanchez	Oak Ridge National Laboratory Oak Ridge National Laboratory Oak Ridge National Laboratory Oak Ridge National Laboratory ITER Organization University of Alaska, Fairbanks Universidad Carlos III de Madrid
2:30PM	**Design and Implementation of 'Many Parallel Task' Hybrid Sub-surface Model**	Khushbu Agarwal Jared chase Karen Schuchardt Timothy Scheibe Bruce Palmer Todd Elsethagen	Pacific Northwest National Lab Pacific Northwest National Lab Pacific Northwest National Lab Pacific Northwest National Lab Pacific Northwest National Lab Pacific Northwest National Lab
3:00PM	**High Performance Matrix Inversion Based on LU Factorization for Multicore Architectures**	Jack Dongarra Mathieu Faverge Hatem Ltaief Piotr Luszczek	University of Tennessee ICL KAUST Supercomputing Lab University of Tennessee
3:30PM	Break		
4:00PM	**Toward Scalable I/O Architecture for Exascale Systems**	Yong Chen	Texas Tech University
4:30PM	**MATE-EC2: A Middleware for Processing Data with AWS** Invited Paper	Tekin Bicer David Chiu Gagan Agrawal	The Ohio State University Washington State University The Ohio State University
5:00PM	**Riding the Elephant: Managing Ensembles with Hadoop**	Elif Dede Madhusudan Govindaraju Dan Gunter Lavanya Ramakrishnan	SUNY Binghamton SUNY Binghamton Lawrence Berkeley National Lab Lawrence Berkeley National Lab
5:30PM	Best Paper Award Attendee Prize Giveaway -- Win an Apple iPad 2 Tablet Register at http://datasys.cs.iit.edu/events/MTAGS11/prize.html	Ioan Raicu Yong Zhao	Illinois Institute of Technology & Argonne National Lab. University of Electronic Science and Technology of China

Organizers

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

Yong Zhao
School of Computer Science and Engi-
neering
University of Electronic Science and
Technology of China

Ian T. Foster
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3rd Workshop on Scientific Cloud Computing

Co-located with ACM High Performance Distributed Computing (HPDC) »» Delft, The Nederlands »» June 18th, 2012

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Workshop Overview

Computational and Data Driven Sciences have become the third and fourth pillar of empirical sciences in addition to experimental and theoretical science. Scientific Computing has already begun to change how science is done, enabling scientific breakthroughs through new kinds of experiments that would have been impossible only a decade ago. Today's science is generating datasets that are increasing exponentially in both complexity and volume, making their analysis, archival, and sharing one of the grand challenges of the 21st century. The support for data intensive computing is critical to advance modern science as storage systems have exposed a widening gap between their capacity and their bandwidth by more than 10-fold over the last decade. There is a growing need for advanced techniques to manipulate, visualize and interpret large datasets. Scientific Computing is the key to solving "grand challenges" in many domains and provide breakthrough in new knowledge, and it comes in many shapes and forms, from high-performance computing (HPC) which is heavily focused on compute-intensive applications, high-throughput computing (HTC) which focuses on using many computing resources over long periods of time to accomplish its computational tasks, many-task computing (MTC) which aims to bridge the gap between HPC and HTC by focusing on using many resources over short periods of time, to data-intensive computing which is heavily focused on data distribution and harnessing data locality by scheduling of computations close to the data.

The 3rd workshop on Scientific Cloud Computing (ScienceCloud) will provide the scientific community a dedicated forum for discussing new research, development, and deployment efforts in running these kinds of scientific computing workloads on Cloud Computing infrastructures. The ScienceCloud workshop will focus on the use of cloud-based technologies to meet new compute intensive and data intensive scientific challenges that are not well served by the current supercomputers, grids and HPC clusters. The workshop will aim to address questions such as: *What architectural changes to the current cloud frameworks (hardware, operating systems, networking and/or programming models) are needed to support science?* Dynamic information derived from remote instruments and coupled simulation, and sensor ensembles that stream data for realtime analysis are important emerging techniques in scientific and cyber-physical engineering systems. *How can cloud technologies enable and adapt to these new scientific approaches dealing with dynamism? How are scientists using clouds? Are there scientific HPC/HTC/MTC workloads that are suitable candidates to take advantage of emerging cloud computing resources with high efficiency?* Commercial public clouds provide easy access to cloud infrastructure for scientists. *What are the gaps in commercial cloud offerings and how can they be adapted for running existing and novel eScience applications? What benefits exist by adopting the cloud model, over clusters, grids, or supercomputers? What factors are limiting clouds use or would make them more usable/efficient?*

This workshop encourages interaction and cross-pollination between those developing applications, algorithms, software, hardware and networking, emphasizing scientific computing for such cloud platforms. We believe the workshop will be an excellent place to help the community define the current state, determine future goals, and define architectures and services for future science clouds.

Topics of Interest

We invite the submission of original work that is related to the topics below. The papers can be either short (5 pages) position papers, or long (10 pages) research papers. Topics of interest include (in the context of Cloud Computing):

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Scientific Programming Journal

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Journal Issue

Volume 19, Number 2-3 / 2011

Issue Title	Science-Driven Cloud Computing
Journal	Scientific Programming
Publisher	IOS Press
ISSN	1058-9244 (Print) 1875-919X (Online)
Subject	Computer Science, Information Technology, Mathematical Analysis and Software Development
Guest Editors	Ivona Brandic and Ioan Raicu
Pages	71-184
Subject Group	Computer & Communication Sciences
Online Date	Tuesday, June 07, 2011

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Special issue on Science-Driven Cloud Computing   71-73

PDF (66.0 KB)   HTML

Category	Guest-editorial
Pages	71-73
DOI	10.3233/SPR-2011-0326
Authors	Ivona Brandic and Ioan Raicu

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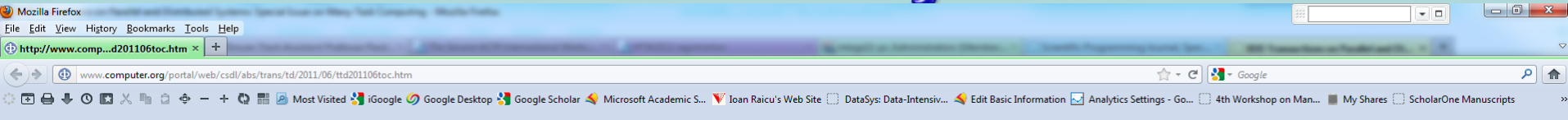
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Special Section on Many-Task Computing

Springer Journal of Grid Computing

Special Issue on
Data Intensive Computing in the Clouds

http://datasys.cs.iit.edu/events/JGC-DataCloud-2012/index.html

Topics

Authors are invited to submit original and un-published technical papers in these topics:

- *Data-intensive cloud computing applications, characteristics, challenges*
- *Case studies of data intensive computing in the clouds*
- *Performance evaluation of data clouds, data grids, and data centers*
- *Energy-efficient data cloud design and management*
- *Data placement, scheduling, and interoperability in the clouds*
- *Accountability, QoS, and SLAs*
- *Data privacy and protection in a public cloud environment*
- *Distributed file systems for clouds*
- *Data streaming and parallelization*
- *New programming models for data-intensive cloud computing*
- *Scalability issues in clouds*
- *Social computing and massively social gaming*
- *3D Internet and implications*
- *Future research challenges in data-intensive cloud computing*

Guest Editors

Ioan Raicu, Illinois Institute of Technology
                & Argonne National Laboratory
Tevfik Kosar, University at Buffalo

Editors-in-Chief

Peter Kacsuk, Hungarian Academy of Sciences
Ian Foster, University of Chicago
                & Argonne National Laboratory

Overview

Applications and experiments in all areas of science are becoming increasingly complex and more demanding in terms of their computational and data requirements. Some applications generate data volumes reaching hundreds of terabytes and even petabytes. As scientific applications become more data intensive, the management of data resources and dataflow between the storage and compute resources is becoming the main bottleneck. Analyzing, visualizing, and disseminating these large data sets has become a major challenge and data intensive computing is now considered as the "fourth paradigm" in scientific discovery after empirical, theoretical, and computational scientific approaches.

The Special Issue on Data Intensive Computing in the Clouds will provide the scientific community a dedicated forum, within the prestigious Springer Journal of Grid Computing, for presenting new research, development, and deployment efforts in running data-intensive computing workloads on Cloud Computing infrastructures. This special issue will focus on the use of cloud-based technologies to meet the new data intensive scientific challenges that are not well served by the current supercomputers, grids or compute-intensive clouds. We believe this venue will be an excellent place to help the community define the current state, determine future goals, and present architectures and services for future clouds supporting data intensive computing.

Important Dates
Papers Due: August 16th, 2011
First Round Decision: October 15th, 2011
Second Round Decision: December 15th, 2011
Final Decision: February 1st, 2012
Publication Date: June 2012

Web Site: http://datasys.cs.iit.edu/events/JGC-DataCloud-2012/
Submission Site: http://grid.edmgr.com/
Contact Guest Editors: jgc-datacloud-2012@datasys.cs.iit.edu

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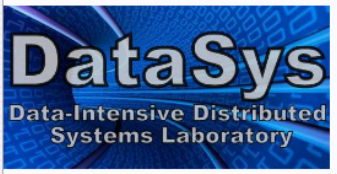
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The DataSys Lab is a research lab in the Department of Computer Science at Illinois Institute of Technology, being lead by Dr. Ioan Raicu. The DataSys Lab conducts research in various areas of distributed systems with an emphasis on designing, implementing, and evaluating systems, protocols, and middleware with the goal of supporting data-intensive applications at extreme scales. The lab's mission is to investigate challenging, high-impact research projects to support data-intensive distributed computing on a variety of systems, from many-core systems, clusters, grids, clouds, and supercomputers.
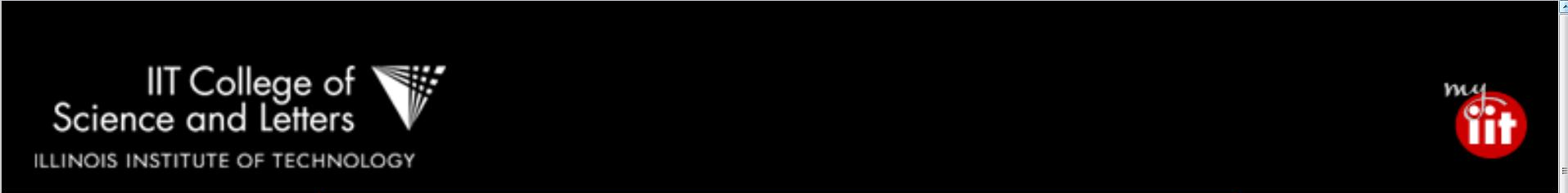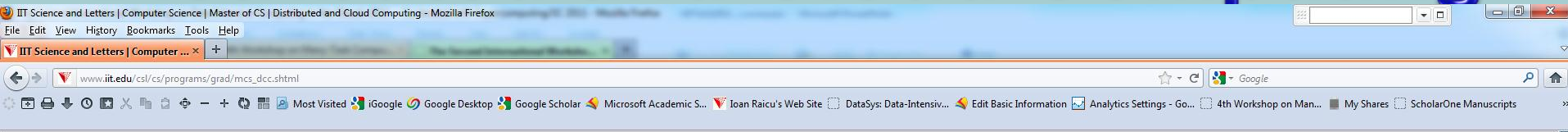
News

- **August 21st, 2011:** New Software Release: CiteSearcher v1.0
- **August 22nd, 2011:** New Course: CS553, Cloud Computing
- **August 4th, 2011:** News Story in HPCinTheCloud: Cloud, Exascale Challenges Converge
- **July 17th, 2011:** The Second International Workshop on Data Intensive Computing in the Clouds (DataCloud-SC11) 2011, co-located at Supercomputing/SC 2011, November 14th, 2011
- **July 17th, 2011:** 4th Workshop on Many-Task Computing on Grids and Supercomputers (MTAGS) 2011, co-located at Supercomputing/SC 2011, November 14th, 2011

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Active Projects

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- FusionFS: Fusion distributed File System
- ZHT: Zero-Hop Distributed Hash Table
- Falkon: Fast and Light-weight tasK executiON framework
- Swift: Fast, Reliable, Loosely Coupled Parallel Computation
- CiteSearcher: a Google Scholar frontend for iOS and Android mobile devices

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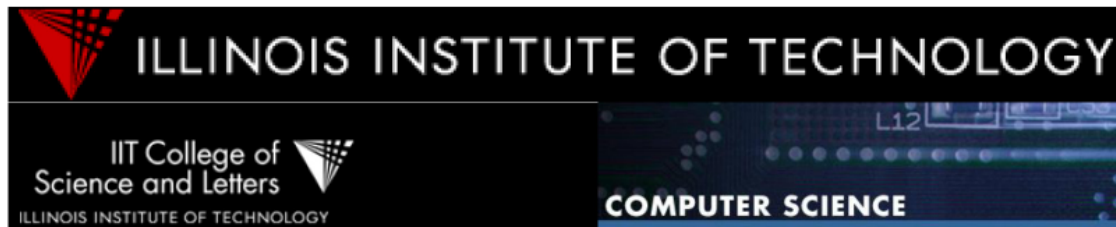   Course Descriptions
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Master Of Computer Science With a Specialization in Distributed and Cloud Computing
30 credit hours

The Master of Computer Science With a Specialization in Distributed and Cloud Computing is intended for students who are interested to learn about distributed systems and how they are applied to real world problems, as well as how emerging cloud computing technologies can be used to implement some of the worlds most popular services and applications.

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COMPUTER SCIENCE

Tenure-Track Assistant Professor Position
Available for Fall 2012

Department of Computer Science
Illinois Institute of Technology
Chicago, Illinois

Applications are invited for a tenure-track assistant professor position in Computer Science beginning Fall 2012. Excellence in research, teaching and obtaining external funding is expected. While strong candidates from all areas of computer science will be considered, applicants from general data areas such as database, data mining, information security, information retrieval, and data understanding and processing are especially encouraged.

The Department offers B.S., M.S., and Ph.D. degrees in Computer Science and has research strengths in distributed systems, information retrieval, computer networking, intelligent information systems and algorithms. The Illinois Institute of Technology, located within 10 minutes of downtown Chicago, is a dynamic and innovative institution. The Department has strong connections to Argonne and Fermi National Laboratories, and to local industry, and is on a successful and aggressive recruitment plan. IIT is an equal opportunity/affirmative action employer. Women and Underrepresented Minorities are strongly encouraged to apply.

Evaluation of applications will start on December 1, 2011 and will continue until the position is filled. Applicants must complete the online form at https://docs.google.com/spreadsheet/viewform?formkey=dFRDbTBBVnVmYTFjYk1pblpxYVI1MWc6MQ (the online form cannot be updated once submitted, any updates should be sent via email to search@cs.iit.edu with "updated online form information" in the subject); in addition, applications must submit a detailed curriculum vita, a statement of research and teaching interests, and the names and email addresses of at least four references to:

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7th IEEE International Conference on e-Science

5th-8th December 2011
Stockholm, Sweden

5th-8th December 2011, Stockholm, Sweden

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7th IEEE International Conference

The seventh IEEE e-Science conference, sponsored by the IEEE Computer Society's Technical Committee for Scalable Computing (TCSC), will be held in Stockholm, Sweden from 5th – 8th December 2011.

Read more

2011 Nobel Laureate Brian P. Schmidt delivers keynote address at eScience 2011

Published by erwinl on Mon, 11/07/2011 - 10:29

This year's Physics Nobel Laureate Brian P. Schmidt will deliver a keynote address on Wednesday, December 7, 3pm.

Read more

Keynote Speakers

Published by uadmin on Wed, 04/06/2011 - 23:21

Keynote speakers have been added.

Go to the list of Keynote Speakers.

News

- 2011 Nobel Laureate Brian P. Schmidt delivers keynote address at eScience 2011
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7th IEEE International Conference on e-Science

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CCGrid 2012 — The 12th IEEE/ACM International Symposium on Cluster, Cloud and Grid Computing

May 13-16, 2012, Ottawa, Canada

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Introduction

The CCGrid symposium series serves as a major international forum for presenting and sharing recent research accomplishments and technological developments in the field of Cluster, Cloud and Grid computing. The symposium is popular among researchers and practitioners from both industry and academia. The first CCGrid Symposium started in Brisbane, Australia, in 2001. Since then, the conference has successfully been hosted around the world. The conferences from 2002 to 2011 were held in Germany, Japan, USA, UK, Singapore, Brazil, France, China, Australia, and USA, respectively. This year, the 12th International Symposium is going to be held in Ottawa, Canada. The symposium is sponsored by IEEE and ACM (approval pending).

Conference Scope

Topics of interest include, but are not limited to:

- **Paradigms and Technologies**: System architectures, Design and deployment; Programming models, language, systems and tools/environments; Virtualization; Middleware technologies; Volunteer Computing.
- **Service-Orientation**: Service oriented architectures; Utility computing models; *aaS paradigm; Service composition and orchestration
- **Greening**: Environment friendly computing ecosystems; Hardware/software/application energy efficiency; Power and cooling; Thermal/power awareness
- **Autonomic Management**: Self-* behaviors, models and technologies; Autonomic paradigms and approaches (control-based, bio-inspired, emergent, etc.); Bio-inspired approaches to management; SLA definition and enforcement;
- **Economic Aspects**: Utility models and computing economies; Economic-based models and approaches.
- **Monitoring and Evaluation**: Performance models; Monitoring and evaluation tools, Analysis of system/application performance; Benchmarks and testbeds.
- **Security and Trust**: Cloud/Grid security and trust; Access control; Data privacy and integrity; Regulation.
- **Applications and Experiences**: Applications to real and complex problems in science, engineering, business and society; User studies; Experiences with large-scale deployments systems or applications.

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ACM Symposium on High-Performance Parallel and Distributed Computing

Welcome to HPDC'12

The organizing committee is delighted to invite you to **HPDC'12**, the *21st International ACM Symposium on High-Performance Parallel and Distributed Computing*, to be held in **Delft, the Netherlands**, which is a historic, picturesque city that is less than one hour away from Amsterdam-Schiphol airport.

HPDC is the premier annual conference on the design, the implementation, the evaluation, and the use of parallel and distributed systems for high-end computing. HPDC is sponsored by SIGARCH, the Special Interest Group on Computer Architecture of the Association for Computing Machinery.

HPDC'12 will be held at Delft University of Technology, with the main conference taking place on **June 20-22** (Wednesday to Friday), and with affiliated workshops on **June 18-19** (Monday and Tuesday).

Here is a **presentation** with a **preview of HPDC'12 in Delft**.

Note: This website is still **under construction** and several pages are still empty. They will be filled in due course.

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Aims & scope

The *Journal of Cloud Computing: Advances, Systems and Applications (JoCCASA)* will publish research articles on all aspects of Cloud Computing. Principally, articles will address topics that are core to Cloud Computing, focusing on the Cloud applications, the Cloud systems, and the advances that will lead to the Clouds of the future. Comprehensive review and survey articles that offer up new insights, and lay the foundations for further exploratory and experimental work, are also relevant.

Published articles will impart advanced theoretical grounding and practical application of Clouds and related systems as are offered up by the numerous possible combinations of internet-based software, development stacks and database availability, and virtualized hardware for storing, processing, analysing and visualizing data. Where relevant, Clouds should be scrutinised alongside other paradigms such Peer to Peer (P2P) computing, Cluster computing, Grid computing, and so on. Thorough examination of Clouds with respect to issues of management, governance, trust and privacy, and interoperability, are also in scope.

Topics of interest include, but are not restricted to:

- Cloud Architectures, Infrastructures and Workflows
- Cloud Storage and Data Distribution
- Cloud Messaging and Database Systems
- Data Centre Efficiency
- Cloud Computing and Network Communications
- System Virtualization and Performance
- Benchmarking, Monitoring, Logging and Auditing
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  - http://datasys.cs.iit.edu/events/DataCloud-SC11/program.html
- Prize giveaway (win an Amazon Kindle Fire):
  - http://datasys.cs.iit.edu/events/DataCloud-SC11/prize.html
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  - datacloud-sc11-chairs@datasys.cs.iit.edu