



The 3rd International Workshop on **Network-aware Data Management**,
in conjunction with **SC'13**, in cooperation with ACM **SIGHPC**.

Sunday - *November 17, 2013* – Denver, CO, USA

The 3rd International Workshop on Network-aware Data Management (NDM 2013) will be held in conjunction with the IEEE/ACM International Conference for High Performance Computing, Networking, Storage and Analysis (SC 2013), in Denver, Colorado.



Proceedings will be published by ACM, and will be available through the ACM Digital Library

Scope:

In addition to increasing data volumes, future scientific collaborations require cooperative work at the extreme scale. As the number of multidisciplinary teams and experimental facilities increase, data sharing and resource coordination among distributed centers are becoming significant challenges every passing year. In the age of extraordinary advances in communication technologies, there is a need for efficient use of the network infrastructure to address increasing data requirements of today's applications. Traditional network and data management techniques are unlikely to scale to meet the needs of future collaborative data-intensive systems. We require novel data access mechanisms and intelligent network middleware to enable future design principles of network-aware data management. This workshop will seek contributions from academia, government, and industry to discuss emerging trends and new technological developments in dynamic resource provisioning, intelligent data-flow and resource coordination, end-to-end processing of data, network-aware application design issues, and cutting-edge network performance problems.

Topics of interest include but are not limited to:

- High-performance network protocols
- Performance problems in networking applications
- Network support for data-intensive computing
- Network-aware data scheduling and resource brokering
- Dynamic resource provisioning and network virtualization
- Performance evaluation of network-aware data management
- Tools and systems to support future collaborative science
- Practical experiences and prototypes for large-scale data streaming
- Requirements and Issues for Network Quality of Service (QoS)
- Application pipelines and network-aware toolkits for data distribution
- Data replication and re-configurable data-access frameworks
- Network Fault Tolerant Data Distribution for large scientific datasets
- Optimization and development of data transfer protocols
- Scalable services for network-aware applications
- Data clouds, data scheduling, and data placement
- Heterogeneous and distributed resource management
- Performance evaluation of data intensive networking applications

One "Best Paper" would be awarded for outstanding contributing to the field of network-aware data management.

Important Dates:

Abstract Submission: Aug 23, 2013
Paper Submission due: Aug 30, 2013
Notification of acceptance: Sept 23, 2013
Camera-Ready version due: Oct 15, 2013
Workshop Date: Nov 17, 2013

Workshop Web Site: <http://sdm.lbl.gov/ndm>

www.ndm-meeting.com

Workshop Organizers:

Mehmet Balman, Lawrence Berkeley National Laboratory
Surendra Byna, Lawrence Berkeley National Laboratory
Brian L. Tierney, Energy Sciences Network

Submission Guidelines:

Please submit your paper(s) in PDF format via the EasyChair submission site:

<https://www.easychair.org/conferences/?conf=ndm2013>

Your paper must be formatted according to the ACM Conference Proceedings. Please use the templates provided at <http://www.acm.org/signs/publications/proceedings-templates> to ensure that formatting will meet ACM specifications.

Submitted papers will be reviewed by the program committee, assisted by external referees. The decision of the program committee is final. Papers should be self-contained. All submissions will be peer-reviewed based on correctness, technical strength, originality, and quality of presentation, relevance to the workshop's scope and topics of interest.

Submitted papers must be original work, have not appeared in and is not under consideration for another workshop, conference or a journal. Accepted papers will be published in ACM digital proceedings.

Papers should be no longer than **ten (10) pages**, including figures, tables, and references. Submissions that violate any of these restrictions will not be reviewed. The page limit will be enforced strictly. At least one author of an accepted paper **must** attend and present the paper in the workshop.

Registration:

SC13 workshop registration (including NDM 2013) is handled through the SC13 system. Please visit <http://sc13.supercomputing.org/content/registration> for more information.

Attendees can register SC13 workshops independent of the SC13 program. Workshop only registration is \$200 (\$100 for students). There is no deadline for workshop only registration.

SC13 technical program attendees receive a reduced rate of \$50 (\$25 for students). This is for one-day only workshop add-on with technical program registration. The fee for attending workshops on all three days (Sunday, Monday, and Friday) with technical program registration is \$100 (\$50 for students). Early registration deadline for the technical program is October 15th.