

NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready
Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for
Participants](#)

[Past NOSSDAV
Workshops](#)

[2010](#)
[2009](#)
[2008](#)
[2007](#)
[more...](#)

Sponsored by:



In cooperation with:



Important Dates

Paper Submission Deadline: ~~24 February 2011~~ 3 March 2011

Decision Notification: 31 March 2011

Camera Ready Due: 7 April 2011

Early Registration Ends: 1 May 2011



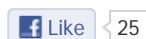
Photos by Shaheer

NOSSDAV 2011 is the 21st anniversary of SIGMM's leading workshop on network and operating systems support for digital audio and video. The workshop, hosted at the University of British Columbia (UBC), will continue to focus on emerging research topics, controversial ideas, and future research directions in the area of multimedia systems research.

As in previous years, we will maintain the focused single-track format a setting that stimulates lively discussions among the senior and junior participants.

NOSSDAV encourages experimental research based on real systems and real data sets. Public availability of the source code and data sets discussed in papers presented at NOSSDAV is highly encouraged.

For NOSSDAV 2011, we will accept papers on broad ranges of topics related to the transmission and presentation of digital audio/video objects. We are particularly interested in soliciting articles that discuss system-level support for distributed social media, as well as papers that focus on enabling multimedia applications in distributed cloud.



NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready
Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for
Participants](#)

[Past NOSSDAV
Workshops](#)

[2010](#)
[2009](#)
[2008](#)
[2007](#)
[more...](#)

[Sponsored by:](#)



[In cooperation with:](#)



Important Dates

Paper Submission Deadline: ~~24 February 2011~~ 3 March 2011

Decision Notification: 31 March 2011

Camera Ready Due: 7 April 2011

Early Registration Ends: 1 May 2011



Photos by Shaheer

NOSSDAV 2011 is the 21st anniversary of SIGMM's leading workshop on network and operating systems support for digital audio and video. The workshop, hosted at the University of British Columbia (UBC), will continue to focus on emerging research topics, controversial ideas, and future research directions in the area of multimedia systems research.

As in previous years, we will maintain the focused single-track format a setting that stimulates lively discussions among the senior and junior participants.

NOSSDAV encourages experimental research based on real systems and real data sets. Public availability of the source code and data sets discussed in papers presented at NOSSDAV is highly encouraged.

For NOSSDAV 2011, we will accept papers on broad ranges of topics related to the transmission and presentation of digital audio/video objects. We are particularly interested in soliciting articles that discuss system-level support for distributed social media, as well as papers that focus on enabling multimedia applications in distributed cloud.



NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready
Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for
Participants](#)

[Past NOSSDAV
Workshops](#)

[2010](#)
[2009](#)
[2008](#)
[2007](#)
[more...](#)

Sponsored by:



In cooperation with:



Organization

Co-Chair: Charles "Buck" Krasic, Google Inc., USA
Kang Li, University of Georgia, USA

Local Arrangement: Aiman Erbad, University of British Columbia, Canada

Publicity: Kuan-Ta Chen, Academia Sinica, Taiwan
Yong Liu, Polytechnic Institute of NYU, USA

Technical Program Committee Kevin Almeroth, University of California, Santa Barbara, USA

Grenville Armitage, Swinburne University of Technology, Australia

Ali C. Begen, Cisco, Canada

Ernst Biersack, Institute Eurecom, France

Surendar Chandra, FXPAL, USA

Kuan-Ta Chen, Academia Sinica, Taiwan

Songqing Chen, George Mason University, USA

Mark Claypool, Worcester Polytechnic Institute, USA

Wu-chang Feng, Portland State University, USA

Wu-chi Feng, Portland State University, USA

Carsten Griwodz, University of Oslo, Norway

Yang Guo, Bell Labs, USA

Pal Halvorsen, University of Oslo, Norway

Mohamed Hefeeda, Simon Fraser University, Canada

Cheng-Hsin Hsu, Deutsche Telekom Lab, USA

JongWon Kim, Gwangju Institute of Science and Technology, Korea

Andre Koenig, Technische Universitat Darmstadt, Germany

Baochun Li, University of Toronto, Canada

Jiangchuan Liu, Simon Fraser University, Canada

Yong Liu, Polytechnic University, USA

Andreas Mauthe, Lancaster University, UK

Ketan Mayer-Patel, University of North Carolina at Chapel Hill, USA

Klara Nahrstedt, University of Illinois at Urbana-Champaign, USA

Wei Tsang Ooi, National University of Singapore, Singapore

Sanjay Rao, Purdue University, USA

Reza Rejaie, University of Oregon, USA

Nabil Sarhan, Wayne State University, USA

Karsten Schwan, Georgia Institute of Technology, USA

Prashant Shenoy, University of Massachusetts, Amherst, USA

Shervin Shirmohammadi, University of Ottawa, Canada

Zhenyu Yang, Florida International University, USA
Roger Zimmermann, National University of
Singapore, Singapore
Michael Zink, University of Massachusetts, Amherst,
USA

NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready
Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for
Participants](#)

[Past NOSSDAV
Workshops](#)

[2010](#)
[2009](#)
[2008](#)
[2007](#)
[more..](#)

[Sponsored by:](#)



Association for
Computing Machinery

Advancing Computing as a Science & Profession



[In cooperation with:](#)



SIGOPS SIGCOMM

[Call For Papers \(in pdf and txt\)](#)

NOSSDAV 2011 is the 21st anniversary of SIGMM's leading workshop on network and operating systems support for digital audio and video. The workshop, hosted at the University of British Columbia (UBC), will continue to focus on emerging research topics, controversial ideas, and future research directions in the area of multimedia systems research.

As in previous years, we will maintain the focused single-track format a setting that stimulates lively discussions among the senior and junior participants. NOSSDAV encourages experimental research based on real systems and real data sets. Public availability of the source code and data sets discussed in papers presented at NOSSDAV is highly encouraged.

For NOSSDAV 2011, we will accept papers on broad ranges of topics related to the transmission and presentation of digital audio/video objects. We are particularly interested in soliciting articles that discuss system-level support for distributed social media, as well as papers that focus on enabling multimedia applications in distributed cloud. Other topics of interest include (but are not restricted to):

- OS, middleware and network support
- Overlay networks
- Media streaming, distribution and storage support
- Web 2.0 systems and social networks
- Media sensor and ad hoc networks / Embedded systems
- Multicore architecture support
- Wireless and mobile multimedia systems / Network processor support
- Networked GPU's, graphics and virtual environments
- Networked games / Real-time immersive systems
- Multimedia communications and system security

- Grid/Cloud computing support

Please contact the workshop co-chairs to check if your topic is within the scope of NOSSDAV. Papers will be judged on their relevance, technical content and correctness, and the clarity of presentation of the research. Papers should not be under review at another venue nor previously published elsewhere.

Submissions should be at most SIX pages, using **standard double-column ACM proceedings style**. We expect these submissions to be the kernel of what will eventually lead to full-length papers at high-quality conferences or journals.

Important Dates

Paper Submission Deadline: ~~24 February 2011~~ 3 March 2011

Decision Notification: 31 March 2011

Camera Ready Due: 7 April 2011

Early Registration Ends: 1 May 2011

Download this CFP as [pdf](#) or [txt](#)

NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

Home

Organization

Call For Papers



Submit Papers

**Camera Ready
Instructions**

Registration

Program

Travel Logistics

**Information for
Participants**

Each accepted paper should have at least one regular (non-student) registration.

Please note that there are significant advantages to registering early (and joining ACM!). Early registration is before May 1st 2011. Note also that the registration fees will be collected by ACM in US\$.

The registration to NOSSDAV 2011 is managed through RegOnline service. To register for NOSSDAV, please follow the link below:

[Register Now](#)

**Past NOSSDAV
Workshops**

2010
2009
2008
2007
more..

Sponsored by:



Association for
Computing Machinery

Advancing Computing as a Science & Profession



In cooperation with:



SIGOPS SIGCOMM

NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
 Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for Participants](#)

[Past NOSSDAV Workshops](#)

- [2010](#)
- [2009](#)
- [2008](#)
- [2007](#)
- [more..](#)

Sponsored by:



In cooperation with:



Technical Program

June 1, 2011

1700 - 1900 Reception at Computer Science lounge, **2366 Main Mall V6T 1Z4**. CS lounge is in the 8th floor of the Computer Science addition building(**Room X860.**)

June 2, 2010

0800 - 0830 Registration and Breakfast

0830 - 0845 Welcome

0845 - 1000 Keynote Speech

Jim Bankoski (Google Inc.) - Topic: WebM/VP8

1000 - 1030 Coffee Break

1030 - 1200 Session 1: Streaming

Chair: Jiangchuan Liu (Simon Fraser University)

LAN-Awareness: Improved P2P Live Streaming

Zhijie Shen (National University of Singapore)

Roger Zimmermann (National University of Singapore)

In-Network Adaptation of H.264/SVC for HD Video Streaming over 802.11g Networks

Ingo Kofler (Alpen-Adria Universitaet Klagenfurt)

Robert Kuschnig (Alpen-Adria Universitaet Klagenfurt)

Hermann Hellwagner (Alpen-Adria Universitaet Klagenfurt)

Media-aware Networking for SVC-based P2P Streaming

Osama Abboud (Technische Universitat Darmstadt)

Konstantin Pussep (Technische Universitat Darmstadt)

Dominik Stingl (Technische Universität Darmstadt)
Ralf Steinmetz (Technische Universität Darmstadt)

1200 - 1330 Lunch

1330 - 1500 Session 2: Wireless & Mobile Media Delivery

Chair: Wu-chi Feng (Portland State University)

Mobile Video Streaming Using Location-Based Network Prediction and Transparent Handover

Kristian Evensen (Simula Research Laboratory)
Andreas Petlund (Simula Research Laboratory, University of Oslo)
Haakon Riiser (Netview Technology AS)
Paul Vigmonstad (Netview Technology AS)
Dominik Kaspar (Simula Research Laboratory)
Carsten Griwodz (Simula Research Laboratory, University of Oslo)
Pal Halvorsen (Simula Research Laboratory, University of Oslo)

The Impact of Inter-layer Network Coding on the Relative Performance of MRC/MDC WiFi Media Delivery

Rohan Gandh (Purdue University)
Meilin Yang (Purdue University)
Dimitrios Koutsonikolas (University at Buffalo, SUNY)
Y. Charlie Hu (Purdue University)
Mary Comer (Purdue University)
Amr Mohamed (Qatar University)
Chih-Chun Wang (Purdue University)

A Measurement Study of Resource Utilization in Internet Mobile Streaming

Yao Liu (George Mason University)
Fei Li (George Mason University)
Lei Guo (Microsoft Corporation)
Songqing Chen (George Mason University)

1500 - 1530 Coffee Break

1530 - 1730 Session 3: Social Media

Chair: Songqing Chen (George Mason University)

Understanding Demand Volatility in Large VoD Systems

Di Niu (University of Toronto)
Baochun Li (University of Toronto)
Shuqiao Zhao (UUSee, Inc.)

Sharing Social Content from Home: A Measurement-driven Feasibility Study

Massimiliano Marcon (MPI-SWS)
Meeyoung Cha (MPI-SWS / Kaist)
Bimal Viswanath (MPI-SWS)
Krishna Gummadi (MPI-SWS)

Load-Balanced Migration of Social Media to Content Clouds

Xu Cheng (Simon Fraser University)
Jiangchuan Liu (Simon Fraser University)

**1800 Banquet - Peter Wall Institute for Advanced Studies,
6331 Crescent Road V6T 1Z1**

June 3, 2010

0800 - 0830 Registration and Breakfast

0830 - 1000 Session 4: Networking

Chair: Osama Abboud (Technische Universitat Darmstadt)

Improving HTTP performance using "Stateless" TCP

David A. Hayes (Swinburne University of Technology)
Michael Welzl (University of Oslo)
Grenville Armitage (Swinburne University of Technology)
Mattia Rossi (Swinburne University of Technology)

A DTN Mode for Reliable Internet Telephony

Patrick Schreiner (Universitat Tubingen)
Christian Hoene (Universitat Tubingen)

Inferring the time-zones of Prefixes and Autonomous Systems by monitoring game server discovery traffic

Mattia Rossi (Swinburne University of Technology)
Philip Branch (Swinburne University of Technology)
Grenville Armitage (Swinburne University of Technology)

1000 - 1030 Coffee Break

1030 - 1200 Session 5: Systems

Chair: Ingo Kofler (Alpen-Adria Universitaet)

Klagenfurt)

GPU-based Fast Motion Estimation for On-the-Fly Encoding of Computer-Generated Video Streams

Javier Taibo (University of Coruna)
Victor M. Gulias (University of Coruna)
Pablo Montero (University of Coruna)
Samuel Rivas (University of Coruna)

SAS Kernel: Streaming as a Service Kernel for Correlated Multi-Streaming

Pooja Agarwal (University of Illinois at Urbana Champaign)
Raoul Rivas (University of Illinois at Urbana Champaign)
Wanmin Wu (University of Illinois at Urbana Champaign)
Ahsan Arefin (University of Illinois at Urbana Champaign)
Zixia Huang (University of Illinois at Urbana Champaign)
Klara Nahrstedt (University of Illinois at Urbana Champaign)

Managing Home and Network Storage of Television Recordings. "I filled my DVR again! Now what?"

Raymond Sweha (BU, Verizon Labs)
Donald E Smith (Verizon Labs, Waltham MA)
James H Drew (Verizon Labs, Waltham MA)

1200 - 1330 Lunch

1330 - 1500 Session 6: Media Adaptation

Chair: Baochun Li (University of Toronto)

Moving Beyond the Framebuffer

Charles D. Estes (University of North Carolina)
Ketan Mayer-Patel (University of North Carolina)

Systems Support for Stereoscopic Video Compression

Wu-chi Feng (Portland State University)
Feng Liu (Portland State University)
Yuzhen Niu (Portland State University)
Scott Price (Portland State University)

Accurate and Low-Delay Seeking Within and Across Mash-Ups of Highly-Compressed Videos

Bo Gao (CWI: Centrum Wiskunde & Informatica)
Jack Jansen (CWI: Centrum Wiskunde & Informatica)
Pablo Cesar (CWI: Centrum Wiskunde & Informatica)
Dick C. A. Bulterman (CWI: Centrum Wiskunde & Informatica)

Informatica)

1500 - 1530 Coffee Break

1530 - 1700 Session 7: Foundation of Media Communication

Chair: Ketan Mayer-Patel (University of North Carolina, Chapel Hill)

Scalable Video Transmission: Packet Loss Induced Distortion Modeling and Estimation

Shujie Liu (State University of New York at Buffalo)
Chang Wen Chen (State University of New York at Buffalo)

Energy-efficient video streaming from high-speed trains

Xiaoqiang Ma (Simon Fraser University)
Jiangchuan Liu (Simon Fraser University)
Hongbo Jiang (Huazhong University of Science and Technology)

Celerity: Towards Low-Delay Multi-Party Conferencing

Xiangwen Chen (The Chinese University of Hong Kong)

Minghua Chen (The Chinese University of Hong Kong)
Baochun Li (University of Toronto)
Yao Zhao (Alcatel-Lucent)
Yunnan Wu (Facebook Inc.)
Jin Li (Microsoft Research)

1700 - 1715 Concluding Remarks

NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready
Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for
Participants](#)

[Past NOSSDAV
Workshops](#)

[2010](#)
[2009](#)
[2008](#)
[2007](#)
[more..](#)

[Sponsored by:](#)



Association for
Computing Machinery

Advancing Computing as a Science & Profession



[In cooperation with:](#)



SIGOPS SIGCOMM

Travel Logistics

This page contains useful information for NOSSDAV 2011 participants. NOSSDAV 2011 is hosted in the University of British Columbia (UBC). The venue is [the Liu Institute for Global Issues](#).

Address:
6476 North West Marine Drive
Vancouver, BC
CANADA V6T1Z2

Directions are available from the [UBC Wayfinding web site](#).

Accommodation in Vancouver

Vancouver has a wide range of hotels at a variety of price points, so that you can usually find a spot that meets your financial constraints. UBC has great choices for participants who want to be close to the workshop venue. Please check [UBC conferences and accommodation](#) for the rates and availability.

For more options, downtown Vancouver has a variety of hotels. Public transport from downtown Vancouver to UBC takes around 30-45 minutes.

Information on Vancouver

Named "Top City of the Americas" in Conde Nast Traveler magazine's 2009 Readers' Choice Awards, Vancouver offers travellers both outstanding opportunities for outdoor adventure and the sophisticated amenities of a world-class city. Vancouver was also named a Top 100 World Destination pick in TripAdvisor's 2008 Travelers' Choice awards, and one of ten Best Family Vacations in Canada in the 2011 Travelers' Choice awards. Vancouver has been chosen as the world's "Most Liveable City" in 2011 by the Economist Intelligence Unit (EIU),

a title it has been awarded eight times since 2002.

For more information about Vancouver, visit [the city of Vancouver](#) facts page. For an updated list of events and places to visit while you are in town, see the site of [Vancouver tourism](#).

Travel and Visa Information

For visa requirements, please consult the web pages of the Canadian Embassy in your country of citizenship. For an index of Canadian embassies abroad visit the [Citizenship and Immigration Canada](#) website. International registrants should be particularly aware and careful about visa requirements, and should plan travel well in advance.

NOSSDAV 2011

The 21st International Workshop on Network and Operating Systems Support for Digital Audio and Video
Vancouver, British Columbia, Canada. June 1-3, 2011.

[Home](#)

[Organization](#)

[Call For Papers](#)



[Submit Papers](#)

[Camera Ready
Instructions](#)

[Registration](#)

[Program](#)

[Travel Logistics](#)

[Information for
Participants](#)

[Past NOSSDAV
Workshops](#)

[2010](#)
[2009](#)
[2008](#)
[2007](#)
[more..](#)

[Sponsored by:](#)



Association for
Computing Machinery

Advancing Computing as a Science & Profession



[In cooperation with:](#)



SIGOPS SIGCOMM

Information for Participants

Getting Around Town

The best way to get around Vancouver is using the public transport system. Vancouver's world-class public transport system is comprised of SkyTrain (automated rapid transit), West Coast Express (commuter train), SeaBus (passenger-only ferries) and an extensive bus service. To plan your trip using public transport, please visit [Translink](#).

The [Canada Line SkyTrain](#) connects downtown Vancouver to the Vancouver International Airport (YVR). To reach UBC using Canada Line, drop off at Broadway (City hall) station and take 99 B-Line bus. A taxi is another option, a trip from the airport to UBC campus or downtown hotels should take approximately 25-30 minutes and cost about \$35 (CDN).

Venue

For more information about the closest parking (if you are driving) and to help in finding your way inside UBC, please use the following links for NOSSDAV'11 venues. The main technical program will be hold at the [Liu Institute for Global Issues](#). The reception will be at the [Computer Science lounge](#). Finally, the banquet dinner will be at the [Peter Wall Institute For Advanced Studies](#).

More information about Vancouver can be found on the [travel page](#).

Parking

UBC Parking options include Parkades, On-street Metered parking, and Surface lots. Note: parking is not permitted on any roadways or areas not designated for parking. For parking maps

visit [UBC parking website](#). Parking in UBC is expensive and it is not included in the registration.

Two parking parkades closest to the workshop venue are [Fraser River Parkade](#) and [Rose Garden Parkade](#) .

Food

On June 1st, we will have light snack at the reception. On each of the workshop days (June 2nd-3rd), we will have breakfast, 2 coffee breaks, and lunch. The main conference banquet dinner is scheduled on June 2nd @ 6:00pm. Please check out the [program](#) for more details.

ACM NOSSDAV 2011

21th Workshop on Network and Operating System Support for Digital Audio & Video June 2-3, 2011 / Vancouver, Canada <http://nss.cs.ubc.ca/nosssdav2011>

Call for Papers

NOSSDAV 2011 is the 21th anniversary of SIGMM's leading workshop on network and operating systems support for digital audio and video. The workshop, hosted at the University of British Columbia (UBC), will continue to focus on emerging research topics, controversial ideas, and future research directions in the area of multimedia systems research.

As in previous years, we will maintain the focused single-track format a setting that stimulates lively discussions among the senior and junior participants. NOSSDAV encourages experimental research based on real systems and real data sets. Public availability of the source code and data sets discussed in papers presented at NOSSDAV is highly encouraged.

For NOSSDAV 2011, we will accept papers on broad ranges of topics related to the transmission and presentation of digital audio/video objects. We are particularly interested in soliciting articles that discuss system-level support for distributed social media, as well as papers that focus on enabling multimedia applications in distributed cloud. Other topics of interest include (but are not restricted to):

- OS, middleware and network support
- Overlay networks
- Media streaming, distribution and storage support
- Web 2.0 systems and social networks
- Media sensor and ad hoc networks / embedded systems
- Multicore architecture support
- Wireless and mobile multimedia systems / network processor support
- Networked GPUs, graphics and virtual environments
- Networked games / real-time immersive systems
- Multimedia communications and system security
- Grid/Cloud computing support

Please contact the workshop co-chairs to check if your topic is within the scope of NOSSDAV. Papers will be judged on their relevance, technical content and correctness, and the clarity of presentation of the research. Papers should not be under review at another venue nor previously published elsewhere.

Submissions should be at most SIX pages, using standard ACM proceedings style. We expect these submissions to be the kernel of what will eventually lead to full-length papers at high-quality conferences or journals.

Sponsored by ACM SIGMM; In-cooperation with SIGCOMM and SIGOPS; and Hosted at UBC



Important Dates

Paper Submission Deadline: 24 Feb 2011
Decision Notification: 24 Mar 2011
Camera Ready Due: 7 Apr 2011

Organizers

Co-Chair:
[Charles "Buck" Krasic](#), Google Inc.
[Kang Li](#), University of Georgia

Publicity Chair:
[Kuan-Ta Chen](#), Academia Sinica
[Yong Liu](#), Polytechnic Institute of NYU

Local Arrangement and Web Chair:
[Aiman Erbad](#), University of British Columbia

Program Committee

[Kevin Almeroth](#), University of California, Santa Barbara
[Grenville Armitage](#), Swinburne University of Technology
[Ali C. Begen](#), Cisco
[Ernst Biersack](#), Institute Eurecom
[Surendar Chandra](#), FXPAL
[Kuan-Ta Chen](#), Academia Sinica
[Songqing Chen](#), George Mason University
[Mark Claypool](#), Worcester Polytechnic Institute
[Wu-chang Feng](#), Portland State University
[Wu-chi Feng](#), Portland State University
[Carsten Griwodz](#), University of Oslo
[Yang Guo](#), Bell Labs
[Pal Halvorsen](#), University of Oslo
[Mohamed Hefeeda](#), Simon Fraser University
[Cheng-Hsin Hsu](#), Deutsche Telekom Lab
[JongWon Kim](#), Gwangju Institute of Science and Technology
[Andre Koenig](#), Technische Universitat Darmstadt
[Baochun Li](#), University of Toronto
[Jiangchuan Liu](#), Simon Fraser University
[Yong Liu](#), Polytechnic Institute of NYU
[Andreas Mauthe](#), Lancaster University
[Ketan Mayer-Patel](#), University of North Carolina, Chapel Hill
[Klara Nahrstedt](#), University of Illinois, Urbana-Champaign
[Wei Tsang Ooi](#), National University of Singapore
[Sanjay Rao](#), Purdue University
[Reza Rejaie](#), University of Oregon
[Nabil Sarhan](#), Wayne State University
[Karsten Schwan](#), Georgia Institute of Technology
[Prashant Shenoy](#), University of Massachusetts, Amherst
[Zhenyu Yang](#), Florida International University
[Roger Zimmermann](#), National University of Singapore
[Michael Zink](#), University of Massachusetts, Amherst

The 21th International Workshop on Network and Operating Systems
Support for Digital Audio and Video

June 2-3, 2011

Vancouver, British Columbia, Canada

<http://nss.cs.ubc.ca/nossdav2011/>

NOSSDAV 2011 is the 21th anniversary of SIGMM's leading workshop on network and operating systems support for digital audio and video. The workshop, hosted at the University of British Columbia (UBC), will continue to focus on emerging research topics, controversial ideas, and future research directions in the area of multimedia systems research.

As in previous years, we will maintain the focused single-track format a setting that stimulates lively discussions among the senior and junior participants. NOSSDAV encourages experimental research based on real systems and real data sets. Public availability of the source code and data sets discussed in papers presented at NOSSDAV is highly encouraged.

For NOSSDAV 2011, we will accept papers on broad ranges of topics related to the transmission and presentation of digital audio/video objects. We are particularly interested in soliciting articles that discuss system-level support for distributed social media, as well as papers that focus on enabling multimedia applications in distributed cloud. Other topics of interest include (but are not restricted to):

- * OS, middleware and network support
- * Overlay networks
- * Media streaming, distribution and storage support
- * Web 2.0 systems and social networks
- * Media sensor and ad hoc networks / embedded systems
- * Multicore architecture support
- * Wireless and mobile multimedia systems / network processor support
- * Networked GPUs, graphics and virtual environments
- * Networked games / real-time immersive systems
- * Multimedia communications and system security
- * Grid/Cloud computing support

Please contact the workshop co-chairs to check if your topic is within the scope of NOSSDAV. Papers will be judged on their relevance, technical content and correctness, and the clarity of presentation of the research. Papers should not be under review at another venue nor previously published elsewhere.

Submissions should be at most SIX pages, using standard ACM proceedings style. We expect these submissions to be the kernel of what will eventually lead to full-length papers at high-quality conferences or journals.

Important Dates

Paper Submission Deadline: 24 Feb 2011

Decision Notification: 24 Mar 2011
Camera Ready Due: 7 Apr 2011

For more information, visit the workshop website @ <http://nss.cs.ubc.ca/nossdav2011/>