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NOSSDAV 2008

18th International workshop on
Network and Operating Systems Support for Digital Audio and
Video

Braunschweig, Germany May 28-30, 2008

Sponsored by ACM SIG Multimedia
Co-sponsored by the Technical University of Braunschweig
and Simula Research Laboratory



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As it is established practice at NOSSDAV, the 18th installment will focus on cutting-edge, state-of-the-art research in multimedia and newly emerging areas. NOSSDAV in Braunschweig will be held under the dual sign of interactivity. Firstly, we are encouraging submissions to the topic of system support for interactive multimedia in particular. New and innovative ideas will be preferred over contributions aimed at perfecting established topics. Controversial ideas and approaches and their open discussion are strongly encouraged. Secondly, we want to incite interactivity among the senior and junior participants. Workshop setting and schedule will be such that discussion is fostered, and it should be especially worthwhile for graduate students with innovative ideas to meet senior researchers as well as peers and receive feedback from them.

Professor Jörg Liebeherr, University of Toronto, will give the keynote speech of NOSSDAV 2008 with the title "Overlays can do more ... if not everything". To learn more, please follow [this link](#).

A publication of the best papers of the workshop in a special issue of MMSJ is intended.

Please note that [IWQoS](#) is held on June 2-4 at the University of Twente. If you are also interested in attending IWQoS, you can easily combine the two trips.

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Paper submissions should not exceed 6 pages in double-column ACM proceedings style.

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The workshop will include special sessions where participants are invited to present prototypes of their software, demos, or entire research systems online and interactively.

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Topics of interest include, but are not limited to:

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- Wireless and mobile multimedia systems
- Resource management in Ad-hoc networks
- 3D multimedia and tele-immersion
- Streaming 3D graphics and virtual worlds
- Networked games

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Sensor networks and architectures

- Real-time operating system support for multimedia
- Peer-to-peer streaming
- In-network stream processing
- Programmable subsystems for multimedia
- Multimedia system using heterogeneous processing architectures
- Multimedia grids
- Energy awareness
- Application-level multicast
- Multimedia middleware and the IP multimedia subsystem
- Multimedia security
- Digital rights management

Important Dates

The workshop takes place May 28-30, 2008 (Wednesday-Friday).

Paper registration:	February 4, 2008
Paper deadline:	February 11, 2008
Review deadline:	March 17, 2008
Notification:	March 24, 2008 March 25, 2008
Demo and data set submissions:	April 1, 2008
Demo and data set acceptance notification:	April 8, 2008
Final papers due:	April 17, 2008
Early registration deadline:	May 5, 2008
Workshop:	May 28-30, 2008 (paper presentations on May 29 and 30)



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Call for Demos and Data Sets

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To increase discussions and the interactive nature of the workshop, we invite you to submit proposals for demonstrations at NOSSDAV 2008, and for the presentation of data sets that can be made freely available to researchers.

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Demonstrations can comprise prototypes of researchers' software, and online presentations of entire research systems is possible. We appreciate demonstrations that allow workshop participants an interactive exploration. Data sets should be made available online by the time of proposal submission. They should be freely usable for researchers. A poster presentation is expected at the workshop.

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Proposals for demos and data sets should not exceed 2 pages in double-column ACM proceedings style. Successful proposals will be included in the NOSSDAV proceedings.

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Proposals should be sent to griff@simula.no by April 1, 2008.

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Wednesday, 28. May 2008

19:00 - Reception

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Thursday, 29. May 2008

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09:00-09:15 Welcome

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09:15-10:15 Keynote: Overlays can do more ... if not everything

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10:15-10:45 Break

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10:45-12:15 Session 1

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12:15-13:15 Break

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13:15-14:45 Session 2

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14:45-15:15 Break

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15:15-16:45 Session 3

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16:45-17:15 Break

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17:15-18:15 Session 4

20:00- Workshop event

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Friday, 30. May 2008

08:30-09:15	Demo Overview Madness (2 min per Demo)
09:15-11:00	<u>Demo session</u>
11:00-11:15	Demo Teardown Break
11:15-12:45	<u>Session 5</u>
12:45-13:45	Break
13:45-14:45	<u>Invited Talk</u>
14:45-15:15	Break
15:15-16:45	<u>Session 6</u>
16:45-17:00	Summary

Session 1: Networking for Virtual Worlds

Session chair: JongWon Kim

Optimising Online FPS Game Server Discovery through Clustering Servers by Origin Autonomous System

Grenville Armitage (Swinburne University of Technology, AU)

Receiver-Driven View-Dependent Streaming of Progressive Mesh

Wei Cheng, Wei Tsang Ooi (National University of Singapore, SG)

Selection Strategies for Peer-to-Peer 3D Streaming

Wei-Lun Sung, Shun-Yun Hu, Jehn-Ruey Jiang (National Central University, TW)

Session 2: NOSS

Session chair: Ewa Kusmierok

Remote Active Queue Management

Dan Ardelean (Google Inc., US); Ethan Blanton (Purdue University, US); Maxim Martynov (Purdue University, US)

Group Unicast for the Real World

Elad Lahav, Martin Karsten, Tim Brecht, Weihang Wang, Tony Zhao (University of Waterloo, CA)

Evaluation of Multi-Core Scheduling Mechanisms for Heterogeneous Processing Architectures

Håkon Stensland, Carsten Griwodz, Pål Halvorsen (Simula Research Laboratory, NO)

Session 3: DAV

Session chair: Matthias Hollick

Analyzing Video Services in Web 2.0: A Global Perspective

Mohit Saxena, Umang Sharan, Sonia Fahmy (Purdue University, US)

Decoding-Workload-Aware Video Encoding

Yicheng Huang, Guangming Hong, Vu An Tran, Ye Wang (National University of Singapore, SG)

On Developing Tangible Interfaces for Video Streaming Control: a Real Case Study

Stefano Ferretti, Marco Rocchetti, Fabio Strozzi (University of Bologna, IT)

Session 4: Video Streaming in Wireless Environments

Session chair: Markus Kampmann

Performance Evaluation of Video Streaming in Multihop Wireless Mesh Networks

Xiaolin Cheng (University of California, Davis, US); Prasant Mohapatra (University of California, Davis, US); Sung-Ju Lee (HP Labs, US); Sujata Banerjee (Hewlett-Packard Laboratories, US)

An H.264/SVC-based adaptation proxy on a WiFi router

Ingo Kofler, Martin Prangl, Robert Kuschnig, Hermann Hellwagner (Klagenfurt University, AT)

Session 5: Analyses and conclusions

Session chair: Ye Wang

Traffic Analysis of Avatars in Second Life

James Kinicki (University of Michigan, US); Mark Claypool (Worcester Polytechnic Institute, US)

Understanding Hybrid CDN-P2P: Why Limelight Needs Its Own RedSwoosh

Cheng Huang (Microsoft Research, US); Angela Wang (Polytechnic University, US); Jin Li (Microsoft Research, US); Keith W. Ross (Brooklyn Polytech, US)

Skype Video Responsiveness to Bandwidth Variations

Luca De Cicco, Saverio Mascolo, Vittorio Palmisano (Politecnico di Bari, IT)

Session 6: Streaming with P2P support

Session chair: Wei Tsang Ooi

Modeling and Evaluation of Overlay Generation Problem for Peer-assisted Video Adaptation and Streaming

Razib Iqbal (University of Ottawa, CA); Behnoosh Hariri (Sharif University of Technology, IR); Shervin Shirmohammadi (University of Ottawa, CA)

Replication for P2P VoD: Eager or Lazy

Bin Cheng (Huazhong University of Science and Technology, CN); Lex Stein (Microsoft Research Asia, CN); Hai Jin (Huazhong University of Science and Technology, CN); Zheng Zhang (Microsoft Research Asia, CN)

Load Balancing for Multimedia Streaming in Heterogeneous Peer-to-Peer Systems

Kalman Graffi, Sebastian Kaune, Konstantin Pussep, Aleksandra Kovacevic, Ralf Steinmetz (Technische Universität Darmstadt, DE)

Demo session

Session chair of the Demo Overview Madness: Ralf Steinmetz

<p><u>A Demo for Affinity based Content Delivery Architectures</u> Christian Spielvogel (University Neuchatel, CH); Laszlo Böszörményi (Klagenfurt University, AT); Peter Kropf (University Neuchatel, CH)</p>
<p><u>A Mechanism for Presentation-Layer Media Continuity in Media Playback Mode</u> Ishan Vaishnavi, Pablo Cesar, A.J. Jansen, Bo Gao, Dick C.A. Bulterman (Centrum voor Wiskunde en Informatica (CWI), NL)</p>
<p><u>A Multi-Agent-based Toolkit for Multimedia-oriented Collaboration Environments</u> Sangwoo Han, JongWon Kim (Gwangju Institute of Science and Technology, KR)</p>
<p><u>Adaptive Video Streaming for Mobile Clients</u> Jens Brandt, Lars Wolf (TU Braunschweig, DE)</p>
<p><u>Fast and Flexible Video Content Browsing based on H.264/AVC Features</u> Klaus Schöffmann, Laszlo Böszörményi (Klagenfurt University, AT)</p>
<p><u>IMS Advanced Media Delivery</u> Heiko Perkuhn, Markus Kampmann (Ericsson Research, DE)</p>
<p><u>iTVP: platform for digital audio and video delivery over broadband IP networks</u> Miroslaw Czyrnek, Cezary Mazurek, Ewa Kusmieriek, Maciej Stroinski (Poznan Supercomputing and Networking Center, PL)</p>
<p><u>MPEG Analyzer: A Tool for visualizing MPEG encoding characteristics</u> Matthias Dick, Sven Lahde, Lars Wolf (TU Braunschweig, DE)</p>
<p><u>Planet PI4</u> Tonio Triebel, Benjamin Guthier, Richard Süselbeck, Gregor Schiele, Wolfgang Effelsberg (University of Mannheim, DE)</p>
<p><u>QoS Adaptation in Streaming 3D Graphics for FAIRVIEW</u> Shinya Yamamoto (Nara Institute of Science and Technology, JP); Yoshihiro Murata (Nara Institute of Science and Technology, JP); Naoki Shibata (Shiga University, JP); Keiichi Yasumoto (Nara Institute of Science and Technology, JP); Minoru Ito (Nara Institute of Science and Technology, JP)</p>
<p><u>TCP Enhancements for Interactive Thin Stream Applications</u> Andreas Petlund, Kristian Evensen, Carsten Griwodz, Pål Halvorsen (Simula Research Laboratory, NO)</p>
<p><u>Transparent Protocol Translation and Load Balancing on a Network Processor in a Media Streaming Scenario</u> Håvard Espeland, Carl Henrik Lunde, Håkon Kvale Stensland, Carsten Griwodz, Pål Halvorsen (Simula Research Laboratory, NO)</p>
<p><u>Receiver-Driven View-Dependent Streaming of Progressive Mesh (demo)</u> Wei Cheng, Wei Tsang Ooi (National University of Singapore, SG)</p>
<p><u>NMP: Network-centric Music Performance</u> Zefir Kurtisi, Xiaoyuan Gu, Matthias Dick, Lars Wolf (Technische Universität Braunschweig, DE)</p>
<p><u>The Impact of Packet Loss on Perceptual Video Quality</u> Mu Mu, Andreas Mauthe (Lancaster University, UK)</p>



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Overlays can do more ... if not everything

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Jörg Liebeherr, University of Toronto

Abstract

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Application-layer peer-to-peer overlay networks have shown to be a disruptive technology. The ability to create large networks on-the-fly has enabled new application services in support of content distribution, file sharing, video streaming, and interactive teleconferences. But could the role of self-organizing overlay networks be even greater? Is it conceivable that peer network protocols become the foundation for a new architecture that is entirely based on the concepts of self-organizing overlays networks? Can peer network protocols evolve into a follow-on technology to the Internet protocols? We claim that potential and fundamental limits of the peer networking approach remain largely unexplored. We envision a network architecture characterized by the coexistence of virtually unlimited numbers of peer networks that can quickly grow to arbitrarily large sizes and adapt to changes in the number of peers and substrate networks. Using applications that we built in recent years, including a situation awareness system for emergency responders, a video streaming in mobile ad-hoc networks and others, we make the case that the overlay networking approach is vastly superior in situations with unknown, uncertain, and changing requirements for information access. We report on our efforts on putting overlay networking closer to the hardware, and discuss the challenges of running overlay protocols directly on mobile devices, access points, and packet switches.

Bio

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Jörg Liebeherr received the Ph.D. degree in Computer Science from the Georgia Institute of Technology in 1991. He is currently with the Department of Electrical and Computer Engineering of the University of Toronto as the Nortel Chair of Network Architecture and Services. He is a co-author of the textbook ``Mastering Networks: An Internet Lab Manual, published by Addison-Wesley in 2004. He was elected to the Board of Governors of the IEEE Communications Society for 2003-2005, and chair of the IEEE Communications Society Technical Committee on Computer Communications in 2004-2005. He received an NSF Career award in 1996, a Virginia Engineering Foundation fellowship in 2002, a best paper award (as co-author) at ACM Sigmetrics 2005, and an Outstanding Service award from the IEEE Communications Society Technical Committee on Computer Communications in 2006. He is a Fellow of the IEEE. His current research interests are networks with service guarantees and self-organizing peer networks.



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Cooperative Networking as Boosting Tool for
Internet Interactivity

Paulo Mendes, INESC Porto

Abstract

In the most recent years, we have assisted to an increasing popularity of peer-to-peer applications, social networks and wireless technologies. Such tendency is still bound to increase, as shown by the support that wireless is currently offering to support human interaction in the information era. There are however serious limitations to this growth given that wireless networks are unreliable due to signal fading and bandwidth limitations. Answers to the current limitations are being worked out on different OSI Layers. For instance, solutions may rely on multimedia coding, trying to increase the reliability of communications and quality of multimedia content. At the network level, cooperation models are strongly emerging, in particular due to the sharing possibilities that the wireless media offers. For instance, communication where the user is actively involved in the provider chain, user-spreadable models, are emerging (e.g. FON, Wisher). These new models have as main factor cooperation. They rely on users to share their already existing Internet access, increasing the users' probability of being always and easily connected. While extremely appealing, emerging network cooperation models accentuate the unreliable facet of wireless networks. In this scenario, cooperative methods that are capable of intelligently forming cooperative entities are a promising way to improve the efficiency of wireless communications. Last but not the least, the use of

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cooperative networking models and methods is a first step towards a paradigm shift in Internet interactivity and multimedia sharing. This talk is dedicated to the topic of cooperative networking, its impact on current Internet connectivity models, as well as its impact in social interaction and multimedia sharing. The talk starts by providing an overview on network cooperation, highlighting different models and methods across different OSI Layers. We will then speak about the impact that cooperative networking has on multimedia coding and Internet models. Examples of failed cooperative systems and requirements for successful approaches are to be debated.

Bio

Paulo Mendes (pmendes@inescporto.pt) graduated (93) in Informatics Engineering from the University of Coimbra, M.Sc. (98) in Electrical and Computer Engineering from the Technical University of Lisbon, Ph.D. (03) in Informatics Engineering from the University of Coimbra. During his Ph.D., he spent 3 years as a Visiting Scholar at Columbia University, US. Since 1993, he has participated in several European projects and actions such as COST263, Telematics Applications/Safety-net, COST290 and IST Ambient Networks. From 1996 to 2003, he was a researcher at the Laboratory of Communications and Telematics (LCT) of the Research Center of the University of Coimbra (CISUC). From 2003 to 2007 he was a Senior Researcher at NTT DoCoMo Euro-labs, Germany. Currently, he is leading the Internet Architectures and Networking (IAN) area of UTM, in INESC Porto, Portugal. He is a member of the IEEE Communication Society and a contributor to IETF. His major research interests are Internet architectures for mobile multihomed devices, augmented routing and forwarding schemes, and novel models and methods for cooperative networking.



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Final paper preparation

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The deadline for the preparation of final papers is April 14, 2008. Papers must be prepared according to the instructions provided [here](#).

The final paper must be uploaded to [EDAS](#). You find your accepted NOSSDAV paper including the *Submit manuscript* link as soon as you have logged into EDAS.

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When you upload the paper, you should also fax the signed copyright form to +47 67 82 82 01, mentioning "NOSSDAV 2008" on the cover page.

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Final paper preparation for demo papers

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The deadline for the preparation of final demo papers is also April 14, 2008. Papers must be prepared according to the instructions provided [here](#). The copyright form must be faxed as for a full paper. The difference is that final versions of the demo papers must be sent by email to griff@simula.no.

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This page contains instructions for authors of accepted papers to NOSSDAV 2008 on how to prepare and submit the camera ready versions of their papers.

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The final versions of full papers must be uploaded in EDAS by April 14, 2008.

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The final versions of 2-page demo papers must be sent to griff_at_simula.no by April 14, 2008. The formatting information and the need for a copyright statement are the same as for full papers.

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For every paper, one author must [register at full fee](#).

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Copyright form

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The lead author of each paper should take the following steps to submit the ACM [copyright form](#) in order to include the paper in the NOSSDAV proceeding and the ACM digital library.

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- Please make sure that the title and author information on the copyright form match exactly those on the paper itself.
- Please read the copyright form instructions carefully and only sign the appropriate places (e.g., do not sign both the "government employee" and "non-government employee" part).
- Please fax the signed copyright form to +47 67 82 82 01 and add "NOSSDAV 2008" on the cover page.

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The final version paper must strictly follow the ACM format as specified below.

- Please use the ACM [style file](#) to prepare the camera ready of your paper as PDF file. Note that we only accept PDF files. Use the Option 2: LaTeX2e - Tighter Alternate style - to reduce the total number of pages.
- In your latex file, use the following settings:

```
\documentclass{sig-alternate}
\begin{document}
\conferenceinfo{NOSSDAV}{'08 Braunschweig, Germany}
\CopyrightYear{2008}
\crdata{978-1-60588-157-6/05/2008}
```

- For Word, you can use [this file](#). Please don't forget to update the conference information including the ISBN number of NOSSDAV 2008 (978-1-60588-157-6/05/2008) in the copyright info box. If you are using other publishing packages, please follow the instructions found under the heading "ACM Proceedings Specifications" on [this web page](#).
- The camera ready versions of your paper should not exceed 6 pages.
- Do not use page numbers in your document.

The final version of your full paper must then be uploaded to [EDAS](#). After logging in, you find your accepted NOSSDAV paper. Follow the *Submit manuscript* link and upload according to EDAS' instructions.

The final version of a demo paper, on the other hand, must be sent by email to [griff at simula.no](mailto:griff@simula.no).



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[To the Registration Page](#)

Please follow [this link](#) to the registration page. Click on *tickets* and choose the appropriate fee. If you register for ACM membership or student fees, you will need to bring your ACM member number or student ID to the workshop.

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For any special needs, such as dietary requirements, please contact NOSSDAV@ibr.cs.tu-bs.de.

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Early registration until May 5, 2008
(midnight Middle European Time, GMT-2)

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[Registration](#)

		ACM Member	non ACM Member
Full fee		325 Euro	375 Euro
Discount fees	Affiliated with an author	250 Euro	300 Euro
	Student	120 Euro	150 Euro

[Location](#)

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logistics](#)

Late and on-site registration from May 6, 2008

[Past](#)

	ACM	non ACM

NOSSDAV
Workshops

		Member	Member
Full fee		375 Euro	425 Euro
Discount fees	Affiliated with an author	300 Euro	350 Euro
	Student	150 Euro	180 Euro



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NOSSDAV 2008

18th International workshop on
Network and Operating Systems Support
for Digital Audio and Video
Braunschweig, Germany May 28-30, 2008



[Home](#)

NOSSDAV is held at the Institute of Operating Systems and Computer Networks in Braunschweig. Also the reception on Wednesday is held at this location. The address is:

[Call for papers and for demos and data sets](#)

Technische Universität Braunschweig
Institut für Betriebssysteme und Rechnerverbund
Mühlenpfordtstrasse 23
D-38106 Braunschweig

[Program](#)

You can find the location on the map below.

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NOSSDAV Workshops

Since the German reunification, the City of Braunschweig is again in the middle of Germany. It is more than 1000 years old, and was chosen by Henry the Lion as his place of residence during the middle of the 12th century. This initiated Braunschweig's development into a large medieval city with a cathedral and a castle. The city was an independent merchant town from the 13th century with connections all over Northern Europe until 1671, when it once again became a residence city. The Collegium Carolinum that is now known as the Technical University Carolo-Wilhelmina at Braunschweig was founded in this period, in 1745. Therefore, TU Braunschweig is Germany's oldest technical university and looks back on a two and a half century tradition of academic teaching and research.

The city is a center of science and the arts, but also of the industry, best represented by the close-by main site of Volkswagen. It was badly destroyed during the 2nd world war but has been rebuilt as a center for research, culture and the economy. Braunschweig is nowadays the centre of one of the most active German research regions. Therefore, it is also Germany's city of science 2007, a competition now in its third round. The city is attractively located in Northern Germany with the Lüneburger Heide in the North and the Harz Mountains in the South. It is located at Germany's most important east-west arteries for transport on rail and road and thus, easily reached.



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Travelling to Braunschweig

[Call for
papers and
for demos
and data
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Braunschweig is located about 250 km west from Berlin in the center of Northern Germany.

[Program](#)

International travellers can easily reach Braunschweig by flying to Hannover, Berlin or Frankfurt. The ICE train connects Braunschweig to Hannover (45 minutes), Berlin (1:30 hours) and Frankfurt (2:45 hours). Frankfurt has excellent long-distant flight connections and is one of the most important hubs in Europe. Berlin is well-connected to the rest of Europe by air. The cost-conscious may appreciate that it is serviced by many low-cost airlines.

[Keynote](#)

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Hannover is also well-connected to the rest of Europe, e.g., to major airport hubs like London, Paris, and Amsterdam. From Hannover, besides train connections, also airport shuttle can be used to get to Braunschweig (which is then even approximately comparable in cost and time with taxis between New York airports and Manhattan).

[Important
dates](#)

[Submissions](#)

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instructions](#)

If you plan to participate in [IWQoS](#) as well as NOSSDAV, we propose that you consider using the train. IWQoS 2008 is held at the University of Twente from June 2-4, and there are 3.5-hour train connections from Braunschweig to Hengelo, with good sight-seeing opportunities at both ends of the trip as well as on the way. For the combined trip, you should consider Amsterdam's airport Schipol.

[Registration](#)

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The web pages of [Deutsche Bahn](#) allow searching for most train connections in Germany. For DB's own connections, online booking is possible.

[Past](#)

Hotels in Braunschweig

In some hotels, there are special prices for members and guests of the Technical University Braunschweig. You will be able to access these offers by telling the correct code. Nevertheless, the listed prices cannot be guaranteed and they even might be cheaper without the code.

You can use [this Google Earth coordinate file](#) to explore the location of the hotels with respect to the conference site.

Apartmenthotel Celler Tor

Street Ernst-Anne-Str. 24
Tel. +49 531 5906-0
Fax +49 531 5906-100
Code NOSSDAV 2008
Email rezeption@cellertor.de

Movenpick-Hotel

Street Welfenhof
Tel. +49 531 48170
Code MB046L
Price Single Room = Double Room: 87 to 107
Breakfast Buffet 16

Penta Hotel

Street Auguststrasse 6-8
Tel. +49 531 48 14-0
Price Single Room = Double Room: 73
Breakfast Buffet 14.50

Hotel An der Stadthalle

Street Leonhardstrasse 21
Tel. +49 531 7 30 68
Price Single Room: 55 to 66
Double Room: 77
Breakfast Buffet included

Frühlings-Hotel

Street Bankplatz 7
Tel. +49 531 24321-0
Price Single Room: 49 to 55
Double Room: 65 to 75

Breakfast Buffet included

Hotel Mercure Atrium

Street Berliner Platz 3
 Tel. +49 531 7 00 80
 Code SC 332 619 717
 Price Single Room: 55 to 76
 Double Room: 101
 Breakfast Buffet 15

Ringhotel Deutsches Haus

Street Ruhfautchenplatz 1
 Tel. +49 531 12000
 Code TU BS
 Price Single Room: 74
 Double Room: 110 to 116
 Breakfast Buffet included

Stadthotel Magnitor

Street Am Magnitor 1
 Tel. +49 531 47130
 Code TU
 Price Single Room: 70 (Monday-Thursday), 60 (Friday-Sunday)
 Double Room; 100 (Monday-Thursday), 90 (Friday-Sunday)
 Breakfast Buffet included

Best Western Hotel Stadtpalais

Street Hinter Liebfrauen 1a
 Tel. +49 531 241024
 Price Single Room: 86
 Double Room: 106
 Breakfast Buffet included

City-Hotel Braunschweig

Street Friedrich-Wilhelm-Strasse 27-29
 Tel. +49 531 242410
 Code TU
 Price Single Room: 74-82
 Double Room: 94-108
 Breakfast Buffet included

Comfort Hotel Braunschweig Ost Aquarius

Street Ebertallee 44
Tel. +49 531 27 19 0
Price Single Room: 50
Double Room: 67
Breakfast Buffet included

Advance Hotel GmbH

Street Mittelweg 7
Tel. +49 531 390 770
Price Single Room: 83 (Monday-Thursday), 68 (Friday-Sunday)
Double Room: 98 (Monday-Thursday), 89 (Friday-Sunday)
Breakfast Buffet included

Landhaus Seela

Street Messeweg 41
Tel. +49 531 37001-162
Price Single Room: 64
Double Room: 83
Breakfast Buffet included

Hotel am Wollmarkt (CVJM | YMCA)

Street Wollmarkt 9-12
Tel. 2 44 40-0
Price Single Room: 45
Double Room: 79
Breakfast Buffet included



The 18th International Workshop on Network and Operating Systems Support for Digital Audio and Video

Braunschweig, Germany

May 28-30, 2008

As it is established practice at NOSSDAV, the 18th installment will focus on cutting-edge, state-of-the-art research in multimedia and newly emerging areas. NOSSDAV in Braunschweig will be held under the dual sign of interactivity. Firstly, we encourage submissions to the topic of system support for interactive multimedia in particular. New and innovative ideas will be preferred over contributions aimed at perfecting established topics. Controversial ideas and approaches and their open discussion are strongly encouraged. Secondly, we want to incite interactivity among the senior and junior participants. Workshop setting and schedule will be such that discussion is fostered, and it should be especially worthwhile for graduate students with innovative ideas to meet senior researchers as well as peers and receive feedback from them.

The workshop will include special sessions where participants are invited to present prototypes of their software, demos, or entire research systems online and interactively.

Accepted papers will be published in the ACM Digital Library. Note that IWQoS is held on June 2-4 at the University of Twente. If you are also interested in attending IWQoS, you can easily combine the two trips.

Topics of interest include, but are not limited to:

- Wireless and mobile multimedia systems
- Resource management in Ad-hoc networks
- 3D multimedia and tele-immersion
- Streaming 3D graphics and virtual worlds
- Networked games
- Sensor networks and architectures
- Real-time operating system support for multimedia
- Peer-to-peer streaming
- In-network stream processing
- Programmable subsystems for multimedia
- Multimedia system using heterogeneous processing architectures
- Multimedia grids
- Energy awareness
- Application-level multicast
- Multimedia middleware and the IP multimedia subsystem
- Multimedia security
- Digital rights management

Co-chairs

Lars Wolf, TU Braunschweig
Carsten Griwodz, Simula Research Laboratory

Technical Program Committee

Kevin Almeroth, UC Santa Barbara
Ernst Biersack, Institute Eurecom
Surendar Chandra, University of Notre Dame
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Wu-chang Feng, Portland State University
Wu-chi Feng, Portland State University
Pål Halvorsen, Simula Research Laboratory
Tristan Henderson, University of St Andrews
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Andreas Mauthe, Lancaster University
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Wei Tsang Ooi, National University of Singapore
Reza Rejaie, University of Oregon
Marco Roccetti, University of Bologna
Henning Schulzrinne, Columbia University
Karsten Schwan, Georgia Institute of Technology
Prashant Shenoy, UMass Amherst
Cormac Sreenan, UC Cork
Ralf Steinmetz, TU Darmstadt
Roger Zimmermann, National University of Singapore

Paper registration: January 28, 2008

Paper deadline: February 4, 2008

Review deadline: March 17, 2008

Notification: March 24, 2008

Final papers due: April 14, 2008

Workshop: May 28-30, 2008