Conference Programme
The AXMEDIS International Conference series has been established since 2005 by the AXMEDIS project which is supported by the EC IST under the 6th Framework Programme and the project consortium, in collaboration with the MUSICNETWORK International Association.

The Conference series is focused on the research, developments and applications in the cross media domain, exploring new and innovative technologies to meet the challenges of the sector. It also combines the activities of the WEDELMUSIC International conference series (www.wedelmusic.org) together with other related activities with workshops and panels.

The AXMEDIS International Conference series aims to explore all subjects and topics related to cross-media and digital-media content production, processing, management, standards, representation, sharing, protection and rights management, to address latest developments and future trends of the technologies and their applications, impacts and exploitation. The AXMEDIS events offer venues for exchanging concepts, requirements, prototypes, research ideas, and findings which could contribute to academic research and also benefit business and industrial communities.

**AXMEDIS2006 Programme includes:** Scientific and industrial papers, Keynotes, Tutorials, Panels and Workshops, including the MUSICNETWORK Workshop on MPEG Symbolic Music Representation (SMR); I-MAESTRO 2nd Workshop on Technology Enhanced Music Education; Virtual Goods 4th Workshop on Technical, Economic and Legal Aspects of Business Models; Workshop on End-to-End Quality of Service (QoS) for Universal Multimedia Access (UMA); Panel on Collective licensing and rights management - the evolving European legal framework in the digital scenario; Panel on European Accessible Information Network (EUAIN).
AXMEDIS2006 Programme

12th December – Pre-Conference Tutorial Day
School of Music, LT1

09:00-11:00: AXMEDIS Tutorial: Framework Overview & Applications I
Tutor: Paolo Nesi, DSI-DISIT, Università degli Studi di Firenze, Italy

11:30-13:00: AXMEDIS Tutorial: Framework Overview & Applications II
Tutor: Paolo Nesi, DSI-DISIT, Università degli Studi di Firenze, Italy

14:00-16:00: AXMEDIS Tutorial: Content Production and Authoring I
Tutors: David Fuschi, Pierfrancesco Bellini, Kia Ng, Lorenzo Sutton, Royce Neagle

16:30-18:30: AXMEDIS Tutorial: Content Production and Authoring II
Tutors: David Fuschi, Pierfrancesco Bellini, Kia Ng, Lorenzo Sutton, Royce Neagle

16:30-18:00: MPEG Session

14:00-16:30: Workshop on End-to-End Quality of Service (QoS) for Universal Multimedia Access (UMA)
Tutors: Martin Schmucker, Ivan Bruno, and Maulik Sailor

11:30-13:00: Tutorial on AXMEDIS Content Processing and Automatic Production I
Tutors: Martin Schmucker, Ivan Bruno, and Maulik Sailor

9:00-11:00: Tutorial on AXMEDIS Content Processing and Automatic Production I
Tutors: Martin Schmucker, Ivan Bruno, and Maulik Sailor

14:00-16:00: Tutorial on Content Production Management via Workflow and AXMEDIS I
Tutors: Atta Badii, Maulik Sailor, and Laurence Pearce

16:30-18:30: Tutorial on Content Production Management via Workflow and AXMEDIS II
Tutors: Atta Badii, Maulik Sailor, and Laurence Pearce

13th December – Roger Stevens Building
Lecture Theatre 24 (LT24)

14:00-16:00: P2P Session (Chair: Fabrizio Fioravanti)
- P2P Sharing within the Semantic HiFi European Project - Jens Hasselbach
- Facilitating Universal Multimedia Adaptation (UMA) in a Heterogeneous Peer-to-Peer Network - Leitan Rong and Ian Burnett
- AXMEDIS Programme and Publication Tools Integration with Workflow-enabled Communication and Process Control - Kia Ng, Atta Badii, Maulik Sailor, and Bee Ong
- A Mobile Peer-To-Peer Application for Distributed Recommendation and Re-sale of Music - Jürgen Nützel and Mario Kubek (This paper is to be presented at 15:30, 14 Dec 2006, LT24)

16:30-18:00: MPEI Session (Chair: Jaime Delgado)
- The Role of MPEG-7 in Semantic Annotation and the Cross-Media Publishing Process - Tobias Bürger, Georg Günther, and Erich Gams
- SMIL to MPEG-4 BIFS Conversion, Beilu Shao, Laureano Moro Velázquez - Nicolas Scaringella, Neha Singh, and Marco Mattavelli

10:00-11:00: Opening Session
- Dr. Kia Ng, ICSRIM - University of Leeds, UK
- The Lord Mayor of Leeds and the Lady Mayoress Councillor Mohammed Iqbal and Fatima Bibi
- Prof. Margaret Atack, Pro-Vice-Chancellor for research, University of Leeds, UK
- Prof. Paolo Nesi, University of Florence, Italy

11:30-12:30: Keynote Session I
- Standards Based Digital Rights Management - Potentially viable or just a pipe dream? Huw Williams (BBC, Head of Research)

14:00-16:00: Video Session (Chair: Alexander Nouak)
- Video Multiplexing for the MPEG-2 VBR Encoder using a Deterministic Method – Jasman Kammin and Kazuo Ohzeki
- DVTSS Video Frame Rate Adjustment Based on Motion Detection – Nawat Kamnoonwatana, Andrey Kuprianov, Poompat Saengudomlert, Teerapat Sanguankotchakorn, and Kanchana Kanchanasut
- Histogram-Based Perceptual Hashing for Minimally Changing Video Sequences - Kevin Hamon, Martin Schmucker, and Xuebing Zhou
- 3D Navigable Interface for Interactive Movie Gormenghast Explore - Julia Sussner, Ludvig Lohse, Maureen Thomas, Gustavo Garcia, Isabel Alonso, and Alberto Muñoz

16:30-18:30: Content Session (Chair: David Fuschi)
- Distributed Architectures for High Performance and Privacy-aware Content Generation and Delivery - Claudia Canali, Michele Colajanni, and Riccardo Lancellotti
- Content Based Description of Audio in the Context of AXMEDIS, - Nicolas Scaringella, Martin Schmucker, and Michael Arnold
- Profiling Management for Personalised Multimedia Delivery On-Demand within the AXMEDIS Framework - A. Badii, M. Sailor, and R.R. Nair
- A Management System for Distributed Knowledge and Content Objects - Wernher Behrendt, Nitin Arora, Tobias Bürger, and Rupert Westenthaler

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13th December – School of Music, LT1

14:00-16:00: AXMEDIS Take-up Kick-off (Internal Meeting)

13th December – School of Music, ICSRIM Building
Clothworkers Centenary Concert Hall Foyer
(CCCH Foyer)
18:45–20:00: Welcome Reception

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14th December – Roger Stevens Building
Lecture Theatre 21 (LT21)

8:30am: Registration – Level 6 Café Annex, Roger Stevens Building

11:30-12:30: Keynote Session 2
- Digital Entertainment: Media technologies for the future - Karlheinz Brandenburg

11:00-12:30: Panel (Chair: Massimo Baldinato)
- Panel on Collective licensing and rights management - the evolving European legal framework in the digital scenario - Massimo Baldinato,
Carola Streul, Nicole La Bouvier, Florian Koempel, and Paloma López Peláez

14:00 - 15:30: DRM Session (Chair: Marc Gauvin)
- Towards the Interoperability between MPEG-21 REL and Creative Commons Licenses, Eva Rodríguez and Jaime Delgado
- Accounting Solutions in the AXMEDIS Project - S. Chellini, T. Martini, and P. Nesi
- Translation between XML-based Rights Expressions using UML and Relational Models - Silvia Llorente, Jaime Delgado, Rubén Barrio, and Xavier Maroñas

16:00-18:00: TV Session (Chair: Nigel Earnshaw)
- Collaborative Personalised TV Programming - Jacob Sparre Andersen
- A Multimedia Content Interchange Framework for TV Producers - Jaime Delgado, Silvia Llorente, Enric Peig, and Anna Carreras
- A Distributed System for Automatic Collection and Distribution of Satellite Images and Weather Information Over DTT - Daniele Peretto, Marco Frattalone, Simone Piazza, Claudio Ferrero, Giovanni Ballocca, and Ferdinando Ricchiuti

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14th December – Roger Stevens Building
Lecture Theatre 24 (LT24)

11:00-12:30: Virtual Goods 4th Workshop on Technical, Economic and Legal Aspects of Business Models (I)
(Chairs: Rudiger Grimm and Jurgen Nutzel, Multimedia Applications, Technical University Ilmenau)
- Employing Trusted Computing for the Forward Pricing of Pseudonyms in Reputation Systems - Nicolai Kuntze, Dominique Mahler, and Andreas U. Schmidt
- Towards the Automated Selling of Web Services over the Internet - Oliver Hummel, Philipp Bostan, and Colin Atkinson
- Trading Privacy - Helge Hundacker and Rudiger Grimm

14:00-15:30: Virtual Goods 4th Workshop on Technical, Economic and Legal Aspects of Business Models (II)
- BluetunA: share your taste in music with people nearby - Stephan Baumann, Arianna Bassoli, Bjorn Jung, and Martin Wisniowski
- Virtual Knowledge as Virtual Goods - Klaus P. Jantke

16:00 - 17:30: Virtual Goods 4th Workshop on Technical, Economic and Legal Aspects of Business Models (III)
- Freebies for CD Retailers: A transition from tangible to digital distribution - Patrick Aichroth and Jens Hasselbach
- Information Flow Control for Distributed Usage Control - Dieter Hutter and Melanie Volkamer
- CONFUCIO on BitTorrent - Liable File Sharing with Swarming - Jochen Ulzheimer, Martin Schmucker, and Peter Ebinger
- From P2P Session on 13 Dec 2006 A Mobile Peer-To-Peer Application for Distributed Recommendation and Re-sale of Music - Jürgen Nützel and Mario Kubek

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14th December – Roger Stevens Building
Lecture Theatre 19 (LT19)

11:00-13:00: I-MAESTRO 2nd Workshop on Technology Enhanced Music Education (I)
(Chairs: Kia Ng, Tillman Weyde, and Fabrice Guédy)
- i-Maestro: Interactive Multimedia Environments for Music Education - Bee Ong, Kia Ng, Nicola Mitolo, and Paolo Nesi
- MPEG-Symbolic Music Representation Editor and Viewer for Max/MSP - P. Bellini, F. Prosini, G. Liguori, N. Mitolo, and P. Nesi
- Technology and Paradigms to Support the Learning of Music Performance - Norbert Schnell, Frederic Bevilacqua, Diemo Schwarz, Nicolas Rasamimanana, and Fabrice Guédy
- Mediating Representations: Domain Knowledge to Pedagogical Content Knowledge (PCK): supporting the instantiation of dynamic pedagogic flow responsive to the evolving situated chemistry of Pedagogic Experiences - Atta Badii and Peter Mothersole

14:00-15:30: I-MAESTRO 2nd Workshop on Technology Enhanced Music Education (II)
- Generation of Exercises and Exercise Sequences for Technology-Enhanced Music Education - Tillman Weyde

16:00-18:00: I-MAESTRO 2nd Workshop on Technology Enhanced Music Education (III)
- Creating Accessible Interfaces for i-Maestro Learning Object - Neil Mckenzie and David Crombie
- Potential for Unification of Musical Standards with I-MAESTRO - Stuart Cunningham
- Integration of Contemporary Music Techniques and Spatialization within a Pedagogical Framework - Emile Ellberger
- TimeToy4: A different approach to interface design for an audio manipulation utility application - Marcel Wierckx

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14th December – School of Music, LT1

9:00-11:00: Tutorial on AXMEDIS Multi-channel Content Distribution I
Tutors: David Fuschis, Pierfrancesco Bellini, and Roberta Campo

11:30-13:00: Tutorial on AXMEDIS Multi-channel Content Distribution II
Tutors: David Fuschis, Pierfrancesco Bellini, and Roberta Campo

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14th December – Roger Stevens Building
Lecture Theatre 11 (LT11)

14:00-15:30: Industrial and Applications Session (I)
(Chair: Domenico Dato)
- Focuseek Nautilus for Dynamic Digital Content Drill-down Browsing - Nicola Baldini and Michele Bini
- OLGA: On-Line GAming over Heterogeneous Platforms Thanks to Standard Scalable Content - Francisco Morán, Marius Preda, Gauthier Lafrut, Paulo Villegas, and Robert-Paul Berretty
- Nautilus for Dynamic Digital Content Drill-down Browsing - Nicola Baldini and Michele Bini

16:00-18:00: Text and Documents Session (Chair: Manuel Zini)
- An Algebra for Multidimensional Documents as Abstraction Mechanism
The Netherlands)

• Automated Paper-based Watermark Extraction and Processing - Hazem Hiary and Kia Ng

14:00-15:30: Applications Session (I) (Chair: Atta Badii)
• MX Navigator: An Application for Advanced Music Fruition - Adriano Baraté, Goffredo Haus, and Luca A. Ludovico
• Accessing and Distributing Streaming Events on DHT-based Systems - M. Milanese, G. Ruffo, F. Ricchiuti, and D. Albertin
• KOPI Protection instead of Copy Protection - László Kovács and Máté Pataki

16:00-18:30: Protection Session (Chair: Rüdiger Grimm)
• 3D Fingerprinting and Encryption Principle for Collaboration - Mosung Cho, Seokryul Kim, Maenghee Sun, and Gwon On
• Protection of MP3 Music Files using Digital Rights Management and Symmetric Ciphering - Carlos Serrão, António Serra, Miguel Dias, and Jaime Delgado
• Definition of Mechanisms that Enable the Exploitation of Governed Content - Jaime Delgado, Tommaso Martini, Paolo Nesi, Eva Rodríguez, Davide Rogai, and Andrea Vallotti
• Semi-fragile Watermarking for Image Authentication with High Tampering Localization Capability - Huijian Liu and Martin Steinebach

15th December – Roger Stevens Building
Lecture Theatre 21 (LT21)
9:00-10:00: Keynote Session 3
• The Present and Future of Digital Rights Management - Stefan Bechtold (Max Planck Institute for Research on Collective Goods, Germany)

10:00 - 11:00: Representations Session (Chair: Horacio Saggon)
• Using XML for Publishing On Demand in Different Output Formats - Reinhard Ruemer and Klaus Miesenberger
• Design and Implementation of a Cross-Media Indexing System for the Reveal-This System - Murat Yakici and Fabio Crestani

11:30-12:30: Keynote Session 4
• From Intelligent Content to Actionable Knowledge: Research Directions and Opportunities under Framework Programme 7 - Roberto Cencioni (European Commission, DG INFSO)

14:00-15:30: Panel on European Accessible Information Network (EUAIN) (II) (Chairs: Jürgen Nützel)
• Re-using standards to create environments for Accessible Music Learning with i-Maestro - Neil Mckenzie
• Accessibility of Two-Dimensional Structures in Science Learning - Cristian Bernareggi
• An RFID Based Tangible User Interface for Content Access in Museums - David Luigi Fuschi

16:00-18:00: Panel on European Accessible Information Network (EUAIN) (II)
• Accessibility of PDF Documents - M.A. Hersh and M.A. Johnson
• Managing Multiple Updates in Dynamically driven Web Applications - Gez Lemon and Joshua O Connor
• Accessible Multichannel Content Processing - Noel Duffy
• The new RNIB eDistribution Platform - Mandy White and David Mann

18:00-18:30: AXMEDIS2006 Closing Session
• Kia Ng (AXMEDIS2006 General Chair) and Paolo Nesi (AXMEDIS Project Coordinator)

15th December – Roger Stevens Building
Lecture Theatre 24 (LT24)
10:00-11:00: Applications Session (I) (Chair: Peter Ebinger)

AXMEDIS2006: www.axmedis.org/axmedis2006
16:00 - 16:30: MUSICNETWORK Workshop on MPEG Symbolic Music Representation (SMR) (II)

16:30 - 17:30: AGM of the MUSICNETWORK International Association

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13th-15th December – Sport Hall 2

12:30 - 13:30: Poster Sessions (Please enquire at the Registration Desk for Poster Setup)

- A Feature-Augmented Grammar for Automated Media Production
  - Freddy Choi, Richard Beales, Jonathan Hearn, Stuart E. Middleton, Matthew Addis, and Christos Mangos
- Media Company: an empirical analysis about the mobile channel
  - Cristina Catanzaro, Andrea Rangone, Filippo Maria Renga, and Marta Valsecchi
- Future Live iTV Production: Challenges and Opportunities
  - Richard Wages, Stefan M. Grünvogel, Janetz Zaletelj, Carmen Mac Williams, and Georg Troeggemann
- A priori Rate Allocation in Wavelet-based Image Compression
  - Sven Grottké, Thomas Richter, and Ruedi Seiler
- Concept for Audio Quality and Security Assurance in Mobile Phones
  - Andrea Oermann, Sandra Gebbensleben, Claus Viehlaer, and Jana Dittmann
- Modeling and Analysis of Peer-to-Peer Multicast Streaming
  - Dominik Zalewski
- KOPI Protection instead of Copy Protection
  - László Kovács and Máté Pataké
- International Association of Interactive Multimedia MUSICNETWORK
  - Kia Ng, Nicola Mitolo, Pierfrancesco Bellini, Paolo Nesi, and Maurizio Campaimani

AXMEDIS: Automating Production of Cross Media Content for Multi-channel Distribution
- Paolo Nesi and Kia Ng

I-MAESTRO: Interactive Multimedia Environment for Technology Enhanced Music Education and Creative Collaborative Composition and Performance
- Bee Ong, Kia Ng, Nicola Mitolo, and Paolo Nesi

CASPAR: Digital Preservation of Interactive Multimedia Performing Arts
- Tran Vu Pham, Bee Ong, and Kia Ng

COST287-ConGAS: Gesture Controlled Audio Systems

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In 2005, the first AXMEDIS International Conference was held in Florence, Italy with over 230 attendees from 22 countries, including 48% from research and academic sectors, 37% from the industry, 7.4% from government and 4% from cultural institutions, etc.

This year, AXMEDIS2006 has received an even larger number of submissions on research, applications, industrial developments, with 4 keynote presentations, 4 co-located workshops, 2 R&D Panels and 5 Tutorials. We are very pleased to see the growth of AXMEDIS Conference becoming larger, more attractive, more exciting and more interesting all the time. We look forward to welcoming you and wishing you a very stimulating and enjoyable experience at what we trust will be another excellent AXMEDIS Conference.

Conference Organising Committee

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International Programme Committee


Conference Venue:
- 12 Dec 2006, Pre-conference Tutorial Day: School of Music, LT1
- 12-14 Dec 2006, Tutorial Sessions: School of Music, LT1
- 13-15 Dec 2006, Poster Sessions: Sport Hall 2

Conference Programme:
http://www.axmedis.org/axmedis2006/program.html

Registration Form:
http://www.axmedis.org/axmedis2006/registration.html

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AXMEDIS2006: www.axmedis.org/axmedis2006