

# CURRICULUM VITAE



FAMILY NAME: **ADAMI**

GIVEN NAME: **NICOLA**

BIRTH DATE: **19/3/1971**

NATIONALITY: **Italian**

## PROFESSIONAL ADDRESS

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University of Brescia  
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**Nicola Adami** has received the Laurea degree in Electronic Engineering in 1998 and the Ph.D degree in Information Engineering in 2002, from the University of Brescia (IT). From 2002 till the end of 2003 he has been research fellow at the same institute. From January 2004 he is holding the position of Assistant Professor at the Engineering Faculty of the University of Brescia - IT.

His **research interests** are: **signal processing, multimedia content analysis and representation, image and video coding**. He has been actively involved in several European granted projects and has been participating to ISO/MPEG and JPEG standardization works. He serves as a reviewer for several international journals and conferences. In 2012, he co-founded YonderLabs a data science company, spin-off of the University of Brescia.

## CAREER

2012- present: Co-Founder of the spin-off Yonder srl, a data science company  
www.yonderlabs.com

2008 and 2006: JSPS Research Fellow

2004- present: Assistant Professor at the Department of Information Engineering - University of Brescia.

2002-2003: Postdoctoral Researcher at the Department of Electronic for Automation – University of Brescia.

## EDUCATION

2002: Ph.D. in Information Engineering - University of Brescia, IT. Topic: “Development of Automatic Tools for Video Sequences Content Analysis”

1998: Laurea (Dr. Eng. degree) in Electronic Engineering - University of Brescia, IT. Topic: “Biologically-Inspired Visual Homing Method for Autonomous Robots”

## SCIENTIFIC ACTIVITIES

Research interests - Digital signals processing, multimedia content analysis, image and video coding, machine learning and artificial intelligence. Some relevant application contexts are: multimedia indexing and retrieval, image and video coding standards (MPEG/JPEG), biometry, automatic scribing, image forgery detection, natural language processing.

## RESEARCH PROJECTS AND PROFESSIONAL EXPERIENCE

2013 - 2016: “YonderNews”, online news aggregator.

2007 - 2014: AV content Analysis tools for Telecom Italia Lab.

2008 July-August: Invited Research Fellow (JSPS) at the Department of Media Sciences of the University of Kitakyushu.

2006 July-August: Invited Research Fellow (JSPS) at the Department of Media Sciences of the University of Kitakyushu.

2004 - 2011: COST 292: Semantic Multimodal Analysis of Digital Media.

2002 - 2003: Fellow at Signal & Communication Laboratory D.E.A. - University of Brescia.

2001 - 2003: European project SPATION (Services Platform and Applications for Transparent Information management in an in-home Network) IST-2000-28304.

September - October 2000: visiting Ph.D. student at the Multimedia Laboratory of the Polytechnic University of Brooklyn (NY) – USA.

1998 - 2000: European AVIR (Audio Visual Indexing & Retrieval for non IT experts users), Esprit-28798.

1998 – present: actively involved in the ISO/IEC JTC1/SC29/WG11 works for the definition of the MPEG7, MPEG21 Digital Item Adaptation and Scalable Video Coding standards.

## TEACHING (graduate and undergraduate)

2010 – present: “Digital Image Processing”.

2007 – 2010: “Probability Theory”.

2003 – present: “Telecommunication Laboratory”.

2003 – 2007: “Information Theory”.  
2003 – 2006: “Digital Image Processing” (assistant).  
2001 – 2005: complementary EU founded courses.  
2001 – 2002: “Digital Signal Processing” (assistant).  
2001 – 2002: “Electrical Communication” (assistant).

## SKILLS

- Easily integrates in new work environments.
- He likes to face challenging problem.
- Team worker and team leader.
- Good communication and teaching capabilities.
- Good knowledge of ISO/IEC (MPEG and JPEG) standardization procedures.
- Programming Languages: C/C++ (more than 10 years experiences), Java, PHP and HTML

## PATENTS

- P1. R. Leonardi, N. Adami, M. Brescianini and A. Signoroni, Scalable video coding method, (US Patent 8233526), 2012.
- P2. G. Francini, N. Adami, S. Benini, R. Leonardi, “Method and System for Synchronizing Electronic Program Guides”, PCT/EP2010/070865.

## LIST OF PUBLICATION

### **Journal Paper**

[R11] Benini Sergio, Svanera Michele, Adami Nicola, Leonardi Riccardo, Kovács András Bálint (2016). Shot scale distribution in art films. MULTIMEDIA TOOLS AND APPLICATIONS, vol. 75, p. 16499-16527, ISSN: 1380-7501, doi: 10.1007/s11042-016-3339-9

[R10] F. Pedersoli, S. Benini, N. Adami, R. Leonardi (2014). XKin: an open source framework for hand pose and gesture recognition using kinect. THE VISUAL COMPUTER, vol. 30, p. 1107-1122, ISSN: 0178-2789, doi: 10.1007/s00371-014-0921-x

[R9] N. Adami, S. Benini, A. Boschetti, L. Canini, F. Maione and M. Temporin, Markers of unsustainable gambling for early detection of at-risk online gamblers, International Gambling Studies , 1–17, 2013.

[R8] F. Guerrini, M. Okuda, N. Adami, R. Leonardi, High Dynamic Range Image Watermarking Robust Against Tone-Mapping Operators IEEE Transactions on Information Forensics and Security 6, 283 - 295, 2011.

[R7] T. Jinno, H. Kaida, X. Xinwei, N. Adami, M. Okuda,  $\mu$ -Law Based HDR Coding and Its Error Analysis, IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences 94, 972–978, 2011.

[R6] N. Adami, A. Boschetti, R. Leonardi, P. Migliorati, Embedded indexing in scalable video coding Multimedia Tools and Applications, 48, 105–121, 2010.

[R5] M. Okuda and N. Adami. Jpeg compatible raw image coding based on polynomial tone mapping. To Appear in IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008.

[R4] N. Adami, A. Signoroni, and R. Leonardi. State-of-the-art and trends in scalable video compression with wavelet-based approaches. IEEE Transactions on Circuits and Systems for Video Technology, 17(9):1238–1255, 2007.

[R3] M. Okuda and N. Adami. Two-layer coding algorithm for high dynamic range images based on luminance compensation. Journal of Visual Communication and Image Representation, 18(5):377–386, 2007.

[R2] N. Adami, M. Brescianini, A. Signoroni, and R. Leonardi. Stool: a fully scalable wavelet video coding scheme with homologous inter-scale prediction. ST Journal, 3(2):19–35, 2006.

[R1] N. Adami, A. Bugatti, R. Leonardi, P. Migliorati, and L. A. Rossi. The ToCAI description scheme for indexing and retrieval of multimedia documents. Multimedia Tools Applications, 14(2):153–173, 2001.

[L1] N. Adami, P. Gallina, R. Leonardi, and A. Signoroni. Progressive Contour Coding in the Wavelet Domain. Lecture Notes in Computer Science, 3893:179–188. Berlin/Heidelberg: Springer, 2006.

### **International Conferences**

[C45] Svanera M., Benini S., Adami N., Leonardi R., Kovács A.B. (2015). Over-the-shoulder shot detection in art films. In: Proceedings of the 2015 International Workshop on Content-Based Multimedia Indexing (CBMI 2015). vol. 2015, p. 1-6, IEEE Computer Society, ISBN: 9781467368704, Prague, Czech Republic, 10-12 Jun. 2015, doi: 10.1109/CBMI.2015.7153627

[C44] Pedersoli Fabrizio, Benini Sergio, Adami Nicola, Okuda Masahiro, Leonardi Riccardo (2015). SubPatch: Random kd-tree on a sub-sampled patch set for nearest neighbor field estimation. In: Proceedings of the 7th International Conference on Machine Vision (ICMV 2014). PROCEEDINGS OF SPIE, THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING, vol. 9445, p. 944514.1-944514.5, SPIE, ISBN: 9781628415605, ISSN: 0277-786X, Milan, Italy, 2014, doi: 10.1117/12.2180577

[C43] Piacenza A., Guerrini F., Adami N., Leonardi R. (2013). Improved Face Tracking Thanks to Local Features Correspondence. In: Proceedings of the 21st European Conference on Signal Processing (EUSIPCO 2013). EUROPEAN SIGNAL PROCESSING CONFERENCE, EURASIP, ISSN: 2219-5491, Marrakech, Morocco, Sep. 2013

[C42] A. Piacenza, F. Guerrini, N. Adami, R. Leonardi (2013). Tracking characters in movies within logical story units. In: Multimedia Signal Processing (MMSP), 2013 IEEE 15th International Workshop on. p. 183-188, IEEE-INST ELECTRICAL ELECTRONICS ENGINEERS INC, Pula, Cagliari, Italy., 2013, doi: 10.1109/MMSP.2013.6659285

[C41] Takao Jinno, Masahiro Okuda, Nicola Adami (2012). New local tone mapping and two-layer coding for HDR images. In: 2012 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP). PROCEEDINGS OF THE ... IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING, p. 765-768, ISBN: 978-146730046-9, ISSN: 1520-6149, doi: 10.1109/ICASSP.2012.6287996

[C40] T. Fujiki, N. Adami, T. Jinno and M. Okuda, High dynamic range image compression using base map coding, Signal & Information Processing Association Annual Summit and Conference (APSIPA ASC), 2012 Asia-Pacific, IEEE, 1--4, 2012.

- [C39] F. Pedersoli, N. Adami, S. Benini and R. Leonardi, XKin: eXtendable hand pose and gesture recognition library for Kinect, *Proceedings of the 20th ACM international conference on Multimedia*, ACM, 1465--1468, 2012.
- [C38] A. Piacenza, F. Guerrini, N. Adami and R. Leonardi, Markov chains fusion for video scenes generation, *Signal Processing Conference (EUSIPCO), 2012 Proceedings of the 20th European*, IEEE, 405--409, 2012.
- [C37] A. Piacenza, F. Guerrini, N. Adami, R. Leonardi, J. Porteous, J. Teutenberg and M. Cavazza, Generating story variants with constrained video recombination, *Proceedings of the 19th ACM international conference on Multimedia*, ACM, New York, NY, USA, 223--232, December, 2011.
- [C36] A. Piacenza, F. Guerrini, N. Adami, R. Leonardi, J. Teutenberg, J. Porteous and M. Cavazza, Changing video arrangement for constructing alternative stories, *Proceedings of the 19th ACM international conference on Multimedia*, ACM, New York, NY, USA, 811--812, December, 2011.
- [C35] A. Boschetti, N. Adami, P. Migliorati and R. Leonardi, High Dynamic Range Images Coding: Embedded and Multiple Description, *Proceedings of the third Asia-Pacific Signal and Information Processing Association Conference (APSIPA 2011)*, Xi'an, China, 18-21 October, 2011.
- [C34] T. Jinno, M. Okuda and N. Adami, Detail preserving multiple bit-depth image representation and coding, *Proceedings of the International Conference on Image Processing*, Brussels, Belgium, 1533-1536, 11-14 September, 2011.
- [C33] A. Boschetti, N. Adami, R. Leonardi and M. Okuda, An Optimal Video-Surveillance Approach for HDR Videos Tone Mapping, *EUSIPCO 2011 (19th European Signal Processing Conference 2011) (EUSIPCO-2011)*, Barcelona, Spain, August, 2011.
- [C32] A. Boschetti, N. Adami, R. Leonardi and M. Okuda, Image coding with face descriptors embedding, *Proceedings of the International Conference on Image Processing*, Brussels, Belgium, 11-14 September, 2011.
- [C31] A. Boschetti, N. Adami, R. Leonardi and M. Okuda, Flexible and Effective High Dynamic Range Image Coding, *Proceedings of the International Conference on Image Processing*, Hong Kong, 26-29 September, 2010.
- [C30] A. Boschetti, N. Adami, R. Leonardi and M. Okuda, High Dynamic Range Image Tone Mapping Based on Local Histogram Equalization, *Proceedings of The 2010 IEEE International Conference on Multimedia & Expo (ICME 2010)*, Singapore, 19-23 July, 2010.
- [C29] N. Adami, A. Boschetti, R. Leonardi and P. Migliorati, Embedded Indexing in Scalable Video Coding, *Proc. International Workshop on Content-Based Multimedia Indexing CBMI 2009*, 101--106, 2009.
- [C28] N. Sugiyama, H. Kaida, X. Xue, T. Jinno, N. Adami and M. Okuda, HDR image compression using optimized tone mapping model, *Proc. IEEE International Conference on Acoustics, Speech and Signal Processing ICASSP 2009*, 1001--1004, 2009.
- [C27] N. Adami, A. Boschetti, R. Leonardi, and P. Migliorati. Scalable coding of image collections with embedded descriptors. In To Appear in *Proc. International Workshop on Multimedia Signal Processing MMSP 2008*, Cairns, Queensland, AU, October 2008.
- [C26] L. Lima, N. Adami, and R. Leonardi. Scalable video streaming with automatic content adaptation. In *Proc. International Workshop on IP Multimedia Communications IPMC 2008*, St. Thomas, Virgin Islands, USA, August 2008.

- [C25] F. Guerrini, M. Okuda, N. Adami, and R. Leonardi. High dynamic range image watermarking. In Proc. IEEE International Technical Conference on Circuits/Systems, Computers and Communications ITC-CSCC 2008, pages 949–952, Shimonoseki, Japan, July 2008.
- [C24] T. Jinno, M. Okuda, and N. Adami. Acquisition and encoding of high dynamic range images using inverse tone mapping. In Proc. IEEE International Conference on Image Processing ICIP 2007, volume 4, pages 181–184, San Antonio, Texas, USA, September 2007.
- [C23] L. Lima, F. Manerba, N. Adami, A. Signoroni, and R. Leonardi. Wavelet-based encoding for hd applications. In Proc. IEEE International Conference on Multimedia and Expo ICME 2007, pages 1351–1354, Beijing, China, July 2007.
- [C22] M. Okuda and N. Adami. Effective color space representation for wavelet based compression of hdr images. In Proc. International Conference on Image Analysis and Processing ICIAP 2007, pages 388–392, Modena, Italy, September 2007.
- [C21] M. Okuda and N. Adami. Raw image encoding based on polynomial approximation. In Proc. IEEE International Conference on Acoustics, Speech and Signal Processing ICASSP 2007, volume 1, pages 1049–1052, Honolulu, Hawaii, USA, April 2007.
- [C20] Q. Zhang, K. Chandramouli, U. Damnjanovic, T. Piatrik, E. Izquierdo, M. Corvaglia, N. Adami, R. Leonardi, G. Yakin, S. Aksoy, et al.. The cost292 experimental framework for trecvid 2007. In Proc. TRECVID Workshop TRECVID 2007, Gaithersburg, MD, USA, November 2007.
- [C19] N. Adami, S. Benini, and R. Leonardi. An overview of video shot clustering and summarization techniques for mobile applications. In Proc. International Conference on Mobile Multimedia Communications MOBIMEDIA 2006, pages 1–6, Alghero, Italy, September 2006.
- [C18] N. Adami, M. Brescianini, M. Dalai, M. Leonardi, and A. Signoroni. A fully scalable video coder with inter-scale wavelet prediction and morphological coding. In Proc. Visual Communications and Image Processing VCIP 2005, volume 5960, pages 535–546, Beijing, China, July 2005.
- [C17] N. Adami, M. Corvaglia, and R. Leonardi. Integrating descriptions to characterize multimedia collections. In Proc. European Workshop on the Integration of Knowledge, Semantics and Digital Media Technology EWIMT 2005, pages 165–172, London, UK, November 2005.
- [C16] N. Adami, R. Corvaglia, and R. Leonardi. Transforming multimedia structural information into semantics. In Proc. Context Based Multimedia Indexing Workshop CBMI 2005, Riga, Latvia, June 2005.
- [C15] N. Adami, R. Corvaglia, and R. Leonardi. Inferring semantics from structural annotations of audio-visual documents. In Proc. IEEE Workshop on Multimedia Signal Processing MMSP 2004, pages 59–62, Siena, Italy, September 2004.
- [C14] N. Adami, R. Leonardi, and P. Migliorati. Overview of multimodal techniques for the characterization of sport programs. In Proc. Visual Communications and Image Processing VCIP 2003, volume 5150, pages 1296–1306, Lugano, Switzerland, June 2003.
- [C13] N. Adami, M. Corvaglia, and R. Leonardi. Comparing the quality of multiple descriptions of multimedia documents. In Proc. IEEE Workshop on Multimedia Signal Processing MMSP 2002, pages 241–244, Saint Thomas, Virgin Islands, USA, December 2002.
- [C12] N. Adami, M. Corvaglia, and R. Leonardi. Comparing descriptions of multimedia data for  
[C12] N. Adami, M. Corvaglia, and R. Leonardi. Comparing descriptions of multimedia data for

- [C11] N. Adami, A. Bugatti, R. Leonardi, and P. Migliorati. Low level processing of audio and video information for extracting the semantics of content. In Proc. IEEE Workshop on Multimedia Signal Processing MMSP 2001, pages 607–612, Cannes, France, October 2001.
- [C10] N. Adami, A. Bugatti, R. Leonardi, and P. Migliorati. Semantic description of multimedia documents: the mpeg7 approach. In Proc. European Workshop on Content-Based Multimedia Indexing CBMI 2001, Brescia, Italy, September 2001.
- [C9] N. Adami and R. Leonardi. A tool for news video scene indexing. In Proc. Content Based Multimedia Indexing Workshop CBMI 2001, pages 299–302, Brescia, Italy, September 2001.
- [C8] N. Adami, R. Leonardi, and Y. Wang. Evaluation of different descriptors for identifying similar video shots. In Proc. IEEE International Conference on Multimedia and Expo ICME 2001, pages 741–744, Tokyo, Japan, August 2001.
- [C7] N. Adami, A. Bugatti, R. Leonardi, P. Migliorati, and L.A. Rossi. Describing multimedia documents in natural and semantic-driven ordered hierarchies. In Proc. IEEE International Conference on Acoustics, Speech, and Signal Processing ICASSP 2000, volume 6, pages 2023–2026, Istanbul, Turkey, June 2000.
- [C6] N. Adami, A. Bugatti, R. Leonardi, P. Migliorati, and L.A. Rossi. Multimedia documents description by ordered hierarchies: the ToCAI description scheme. In Proc. IEEE International Conference on Multimedia and Expo ICME 2000, volume 2, pages 781–784, New York, NY, USA., July 2000.
- [C5] N. Adami, A. Bugatti, A. Corgi, R. Leonardi, P. Migliorati, L.A. Rossi, and C. Saraceno. ToCAI: A framework for indexing and retrieval of multimedia documents. In Proc. International Conference on Image Analysis and Processing ICIAP '99, pages 1027–1032, Venice, Italy, September 1999.
- [C4] N. Adami, A. Bugatti, A. Corgi, R. Leonardi, P. Migliorati, L.A. Rossi, and C. Saraceno. The ToCAI description scheme for indexing and retrieval of multimedia documents. In Proc. Content Based Multimedia Indexing Workshop CBMI '99, Toulouse, France, October 1999.
- [C3] N. Adami and R. Leonardi. Identification of editing effect in image sequences by statistical modeling. In Proc. Picture Coding Symposium PCS '99, pages 157–160, Portland, Oregon, USA, April 1999.
- [C2] G. Bianco, A. Rizzi, R. Cassinis, and N. Adami. Guidance principle and robustness issues for a biologically-inspired visual homing. In Proc. European Workshop on Advanced Mobile Robots EUROBOT '99, pages 143–150, Zurich, Switzerland, September 1999.
- [C1] G. Bianco, R. Cassinis, A. Rizzi, N. Adami, and P. Mosna. A bee-inspired robot visual homing method. In Proc. Workshop on Advanced Mobile Robots EUROMICRO '97, pages 141–146, Brescia, Italy, 1997.

### **National Conferences**

- [CN1] R. Cassinis, A. Rizzi, G. Bianco, N. Adami, and P. Mosna. A biologically-inspired visual homing method for robots. In Proc. Workshop AIIA-IAPR-IC Tecniche di Intelligenza Artificiale e Pattern Recognition per la Visione, Ferrata, Italy, May 1998.

### **Contribution to international Standards**

- [S21] N. Adami and M. Okuda. Effective color space representation for compression of hdr images with jpeg2000. Document N4192, ISO/IEC JTC1/SC29/WG1, San Jose, CA, USA, April 2007.

- [S20] R. Leonardi, C. Tonoli, P. Migliorati, and N. Adami. Distributed video codec behaviors in presence of transmission errors. Document M14468, ISO/IEC JTC1/SC29/WG11, San Jose, CA, USA, April 2007.
- [S19] N. Adami, M. Brescianini, R. Leonardi, L. Lima, F. Manerba, and A. Signoroni. Performance evaluation of wavelet-based hd video coding. Document N4049, ISO/IEC JTC1/SC29/WG11, Jeju, South Korea, November 2006.
- [S18] N. Adami, M. Brescianini, R. Leonardi, L. Lima, and A. Signoroni. Report on wavelet video coding ee5: Visual performance evaluation. Document M12960, ISO/IEC JTC1/SC29/WG11, Bangkok, Thailand, January 2006.
- [S17] N. Adami, E. Izquierdo, R. Leonardi, M. Mrak, A. Signoroni, and T. Zgaljic. Efficient wavelet-based video compression. Document N3954, ISO/IEC JTC1/SC29/WG1, Perugia, Italy, July 2006.
- [S16] N. Adami, R. Leonardi, and A. Signoroni. Verification of proposal: "performance evidence of software proposal for wavelet video coding exploration group". Document M13301, ISO/IEC JTC1/SC29/WG11, Montreux, Switzerland, April 2006.
- [S15] N. Adami and T. Zgaljic. Preliminary proposal of an application scenario and test conditions in aic. Document N4117, ISO/IEC JTC1/SC29/WG1, Jeju, Republic of Korea, November 2006.
- [S14] N. Adami, M. Brescianini, and R. Leonardi. Edited version of the document sc 29 n7334. Document M12639, ISO/IEC JTC1/SC29/WG11, Nice, France, October 2005.
- [S13] N. Adami, M. Brescianini, R. Leonardi, and A. Signoroni. New prediction schemes for scalable wavelet video coding. Document M12642, ISO/IEC JTC1/SC29/WG11, Nice, France, October 2005.
- [S12] N. Adami, M. Brescianini, R. Leonardi, and A. Signoroni. Performance evaluation of the current wavelet video coding reference software. Document M12643, ISO/IEC JTC1/SC29/WG11, Nice, France, October 2005.
- [S11] N. Adami, M. Brescianini, R. Leonardi, and A. Signoroni. Report of unibs svc ce3 inter-layer prediction: Stool scheme on hhi software. Document M11719, ISO/IEC JTC1/SC29/WG11, Hong Kong, China, Jaury 2005.
- [S10] N. Adami, M. Brescianini, R. Leonardi, and A. Signoroni. Fully embedded entropy coding with arbitrary multiple adaptation capabilities. Document M11378, ISO/IEC JTC1/SC29/WG11, Palma de Mallorca, Spain, October 2004.
- [S9] N. Adami, M. Brescianini, R. Leonardi, and A. Signoroni. Svc ce1: Stool - a native spatially scalable approach to svc. Document M11368, ISO/IEC JTC1/SC29/WG11, Palma de Mallorca, Spain, October 2004.
- [S8] N. Adami, S. Benini, R. Leonardi, and H. NishiKawa. Report of ce on metadata adaptation integration. Document M9849, ISO/IEC JTC1/SC29/WG11, Trondheim, Norvegy, July 2003.
- [S7] N. Adami, M. Corvaglia, R. Leonardi, and H. NishiKawa. Report of ce on metadata adaptation integration. Document M9467, ISO/IEC JTC1/SC29/WG11, Pattaya, Thailand, March 2003.
- [S6] N. Adami, M. Corvaglia, and R. Leonardi. Ce on metadata adaptation integration of multiple descriptions. Document M9024, ISO/IEC JTC1/SC29/WG11, Shanghai, China, October 2002.
- [S5] N. Adami, M. Corvaglia, R. Leonardi, and H. NishiKawa. Report of ce on metadata adaptation integration. Document M9233, ISO/IEC JTC1/SC29/WG11, Awaji, Japan, December 2002.
- [S4] N. Adami and R. Leonardi. Content and description scalability issues in a home network environment. Document M8693, ISO/IEC JTC1/SC29/WG11, Klagenfurt, Austria, July 2002.



[S3] N. Adami, R. Leonardi, and Y. Shibata. Proposals for ordering key ds instantiation in mpeg-7 description. Document M6977, ISO/IEC JTC1/SC29/WG11, Singapore, March 2001.

[S2] N. Adami, A. Bugatti, R. Leonardi, P. Migliorati, and L.A. Rossi. The tocai ds for audio-visual documents. structure and concepts. Document M4586, ISO/IEC JTC1/SC29/WG11, Seoul, South Korea, March 1999.

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### **Technical Report**

[RP1] N. Adami, M. Corvaglia, R. Leonardi, and P. Migliorati. Lo standard mpeg-7. Technical report, TILAB, Torino, Italy, 2003.

### **Other**

[O3] L. Lima, F. Manerba, N. Adami, A. Signoroni, and R. Leonardi. Present and future of wavelet video coding and stp-tool schemes. Streaming Day 2006, Pisa, Italy, September 2006.

[O2] N. Adami, M. Brescianini, R. Leonardi, and A. Signoroni. Wavelet based scalable video coding. Streaming Day 2005, Turin, Italy, September 2005.

[O1] M. Barbieri, G. Mekenkamp, N. Adami, R. Leonardi, and P. Migliorati. Spation: Services platforms and applications for transparent information management in an in-home network. IEEE International Conference on Multimedia and Expo ICME 2003, Baltimore, MD, USA, July 2003.

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