

Prof.dr. Alan Hanjalic



Alan Hanjalic is a professor of computer science at the Delft University of Technology (TU Delft), Delft, The Netherlands, founder and head of the Multimedia Computing Group and head of the Department of Intelligent Systems. He received his Ph.D. in 1999 from the Delft University of Technology and his Diplom-Ingenieur (Dipl.-Ing.) degree in 1995 from the Friedrich-Alexander University in Erlangen, Germany, both in Electrical Engineering. He was a visiting scientist at Hewlett-Packard Labs in Palo Alto CA, USA, in 1998, a research fellow at British Telecom Labs, Ipswich, UK, in 2001, and a visiting scientist at Philips Research Labs at Briarcliff Manor NY, USA, in 2003, as well as at Microsoft Research Asia, Beijing, China, in 2005. In the time period 2017-2021, Prof. Hanjalic is active as an invited international expert in the *Project 111* of the University of Electronic Science and Technology China (UESTC), Chengdu, China.

Research interests and expertise of Prof. Hanjalic are in the fields of multimedia information retrieval, in which he (co)invented 1 patent and (co)authored and (co)edited more than 150 publications, among which the books titled *Image and Video Databases: Restoration, Watermarking and Retrieval* (Elsevier, 2000), *Content-Based Analysis of Digital Video* (Kluwer Academic Publishers, 2004) and *Online Multimedia Advertising: Techniques and Technologies* (IGI Global, 2010). The fundamental question Prof. Hanjalic is interested in is how to provide efficient, effective, intuitive and responsible access to and interaction with information stored in large (multimedia) data collections or available on social media platforms in a variety of use scenarios involving both search and recommendation.

In 2012, he was awarded the *Antoni van Leeuwenhoek Chair*, a full professorship appointment “reserved for the best young scientists at the Delft University of Technology” (quote: TU Delft). He is also co-recipient of the *Best Paper Award* at the ACM Conference on Recommender Systems (RecSys) 2012 and at the ACM International Conference on Multimedia 2017, of the *Multimedia Grand Challenge Award* at the ACM Multimedia 2015 and of the *Overall Winner Award* at the ACM RecSys 2010 CAMRa Challenge. In 2016, he was named *IEEE Fellow* for his contribution to the field of multimedia information retrieval.

Prof. Hanjalic has been involved in the management of several scientific journals in the multimedia field. He was the Chair of the Steering Committee of the IEEE Transactions on Multimedia (2014-2016) and the Associate Editor-in-Chief of the IEEE Multimedia Magazine (2014-2017) in charge of Special Issues. He was an elected member of the IEEE Image, Video, and Multidimensional Signal Processing Technical Committee (2015-2017) and of the IEEE Technical Committee on Multimedia Signal Processing (2011-2013). Furthermore, Prof. Hanjalic served as a member of Editorial Boards of the major scientific journals, among which the IEEE Transactions on Multimedia (2006-2014), the IEEE Transactions on Affective Computing (2010-2016), the ACM Transactions on Multimedia (2015-2017) and the Springer International Journal of Multimedia Information Retrieval (2011-2017). In addition, he was a Guest Editor of eight special issues in the leading journals in the field of multimedia, including the Proceedings of the IEEE, the IEEE Transactions on Multimedia, the IEEE Transactions on Affective Computing and the IEEE Multimedia Magazine.

He has served on the organizing committees of all major conferences in the multimedia field, including the ACM Multimedia Conference (General Chair 2009 and 2016, Program Chair 2007 and 2014), IEEE ICME (Program Chair 2012 and 2013), ACM ICMR conference (Program Chair 2011) and ACM CIVR conference (Program Chair 2008).

Prof. Hanjalic was an invited (keynote/plenary) speaker at several international events, among which the IEEE International Workshop on Multimedia Signal Processing (IEEE MMSP) 2013, the International Conference on Multimedia Modeling 2012, and at the Pacific-Rim Conference on Multimedia 2007.

1. CONTACT DETAILS

Delft University of Technology (TU Delft)
Faculty of Electrical Engineering, Mathematics and Computer Science (EEMCS)
Department of Intelligent Systems
Multimedia Computing Group

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2628 XE Delft
The Netherlands

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2. EDUCATION

- Ph.D. (1999), Delft University of Technology,
 - Dissertation: *Visual-Content Analysis for Multimedia Retrieval Systems*
 - Advisors: Prof. Reginald L. Lagendijk and Prof. Jan Biemond
- Diplom-Ingenieur (1995), Friedrich-Alexander University, Erlangen, Germany,
 - Thesis: *Estimation of 3D Structure and Motion from Monocular Image Sequence (in German)*,
 - Advisors: Prof. Bernd Girod (Stanford University, USA) and Prof. Eckehard Steinbach (TU Munich, Germany)

3. ACADEMIC POSITIONS @ TU Delft

- Head, Department of Intelligent Systems 2018 - present
- Founder and Head, Multimedia Computing Group 2014 - present
- Head, Multimedia Signal Processing Group 2012 - 2013
- Professor, Antoni van Leeuwenhoek Chair since 2012
- Founder and Coordinator, Delft Multimedia Information Retrieval Lab 2009 - 2013
- Associate Professor, Department of Mediamatics 2005 - 2012
- Assistant Professor, Department of Mediamatics 1999 - 2005

4. ACADEMIC OFFICES @ TU Delft

- Member, *TU Delft Board of Professors* (Raad van Hoogleraren) 2015 - 2019
- Member, *TU Delft Professorship Appointment Committee* (Gesloten Procedure) 2018 - 2019
- Member, *EEMCS Academic Career Development Committee* 2016 - 2018
- Chair, *Board of Studies Computer Science* 2014 - 2018

5. ACADEMIC VISITS

- UESTC, Chengdu, China yearly, 2017-2021 Host: Prof. Heng Tao Shen
- University of Granada, Granada, Spain yearly, 2008-2013 Host: Dr. Jesus Chamorro
- Microsoft Research Asia, Beijing, China July 2005 Host: Dr. Hsiao-Wuen Hon
- Philips Research, Briarcliff Manor, USA June-July 2003 Host: Dr. Nevenka Dimitrova
- British Telecom Labs, Ipswich, UK December 2000 – January 2001 Host: Dr. Li-Qun Xu
- Hewlett-Packard Labs, Palo Alto, USA May – September 1998 Host: Dr. Hong-Jiang Zhang

6. AWARDS AND HONORS

- **Invited international expert**, Project 111 of the University of Electronic Science and Technology of China (“To strengthen the university’s international collaborations with global research leaders”), 2017-2021
- Named an **IEEE Fellow** (Class of 2016) for contributions to multimedia information retrieval (every year, only 0.1% of all IEEE members worldwide are elected Fellows)
- Awarded the **Antoni van Leeuwenhoek Chair** at the Delft University of Technology (“The Antoni van Leeuwenhoek (AvL) appointments at TU Delft are reserved for the best young Delft scientists.”, Source: Delft University of Technology), February 2012
- **Best Paper Award**, ACM Multimedia 2017 conference, together with B. Wang, Y. Yang, X. Xu and H.T. Shen
- **Best Paper Award**, ACM Recommender Systems 2012 conference, together with Y. Shi, A. Karatzoglou, L. Baltrunas, M. Larson and N. Oliver
- **Winner**, ACM Multimedia 2015 Grand Challenge, together with J. Choi, E. Kim, M. Larson and G. Friedland
- **Winner**, ACM Recommender Systems 2010 Challenge on Context-aware Movie Recommendation (CAMRa), together with Y. Shi and M. Larson
- **ACM Recognition of Service Award** 2007, 2009

7. PROFESSIONAL APPOINTMENTS AND COMMITTEE MEMBERSHIPS

- **Chair, Steering Committee**, IEEE Transactions on Multimedia 2014-2016
- **Associate Editor-in-Chief**, IEEE Multimedia Magazine, responsible for special issues 2014-2017
- **Member, Steering Committee**, ACM International Conference on Multimedia series 2015-2018
- **Member, IEEE Technical Committee**, Image, Video, and Multidimensional Signal Processing 2015-2017
- **Member, Steering Committee**, IEEE Transactions on Multimedia 2012-2014
- **Member, IEEE Technical Committee**, Multimedia Signal Processing 2011-2013
- **Editorial Board member:**
 - ACM Transactions on Multimedia 2015 - 2017
 - IEEE Transactions on Multimedia 2006 - 2014
 - IEEE Transactions on Affective Computing 2010 - 2016
 - Springer International Journal of Multimedia Information Retrieval 2011 - 2017
 - Elsevier Image and Vision Computing journal 2009 - 2013
 - Hindawi Advances in Multimedia journal 2009 - 2013
 - Journal of Multimedia (Academy Publisher) 2006 - 2014

8. ACQUIRED RESEARCH FUNDING: 12 MEuro (4,5 MEuro for TU Delft)

- EU FP7 STREP project “PHENICX”, 2013-2016 (with Cynthia Liem) 2.8 MEuro (**670 kEuro** for TU Delft)
- EU FP7 Integrated project “CUBRIK”, 2011-2014 (with Martha Larson) **410 kEuro**
- Dutch FES COMMIT project “SEALINCMedia”, 2011 – 2016 2.5 MEuro (**710 kEuro** for TU Delft)
- Google European Doctoral Fellowship for Cynthia Liem, 2010-2013 **160 kEuro**
- Google European Doctoral Fellowship for Christoph Kofler, 2013-2015 **160 kEuro**
- EU FP7 Network of Excellence “PetaMedia”, 2008-2012 4.4 MEuro (**1.5 MEuro** for TU Delft)
- Dutch BSIK MultimediaN project “Video at your Fingertips”, 2004 – 2009 1.3 MEuro (**600 kEuro** for TU Delft)
- Philips Research (in the scope of BSIK MultimediaN), 2004 – 2009 **180 kEuro**
- Auxilium BV, ICT Delft Research Center, BSIK MultimediaN, 2007-2009 **140 kEuro**

9. KEYNOTE/PLENARY TALKS

- *Trends and Challenges in Multimedia Information Retrieval*, IEEE International Workshop on Multimedia Signal Processing, Sardinia, Italy, September 2013
- *Advances in Multimedia Information Retrieval*, ELMAR conference, Zadar, Croatia, September 2012
- *A New Gap to Bridge: Where to go Next in Social Media Retrieval?*, International Multimedia Modeling Conference, Klagenfurt, Austria, January 2012
- *Content You Like Anytime and Anyplace: Multimedia Research for New TV Concepts*, Pacific-Rim Conference on Multimedia, Hong Kong, December 2007

10. OTHER INVITED TALKS (selected)

- *Multimedia Search: From Academic Exercise to Practical Deployment*, University of Electronic Science and Technology China (UESTC), Chengdu, China, April 2017
- *Multimedia Search: From Relevance to Utility*, IEEE-EURASIP Summer School on Signal Processing: Semantics in Media, Cavalese, Italy (invited lecture), September 2016
- *On Intent-Aware Video Search*, University of Bordeaux, France, November 2014
- *On User Intent in Video Search*, International Symposium on Social Multimedia Computing (ISSMC), Beijing, China, September 2014
- *On the ICT Challenges for Digital Heritage Going Social*, Economies of the Commons Conference: Sustainable Futures for Digital Archives, Amsterdam, October 2012
- *From Technology-Inspired towards Utility-Centered Multimedia Information Retrieval*, International Workshop on Search Computing, Brussels, September 2012
- *Bridging the Utility Gap: Challenges, Pitfalls and Opportunities in Social Multimedia Retrieval*, Telefonica R&D, Barcelona, Spain, July 2011
- *Integration of Feature-based Analysis and Social Indexing for Improved Multimedia Content Access*, Dagstuhl Seminar on Contextual and Social Media Understanding and Usage, Dagstuhl, Germany, June 2008
- *Multimedia Retrieval New Style: More Reliability through New Synergies*, Plenary Theme Presentation at the Dutch Advanced Graduate Research School on Computing and Imaging (ASCI) 2008 conference, Heijen, June 2008
- *Towards generic mechanisms for video highlighting and summarization*, Philips Research, Eindhoven, August 2006
- *Paradigm Shifts in Video Content Analysis Needed: The Why's and How's of Generic VCA Methods*, Dagstuhl Seminar on Content-based Retrieval, Dagstuhl, Germany, April 2006
- *Moving Away from Narrow-Scope Solutions in Multimedia Content Analysis: Needs, Challenges and Dilemmas*, Multimedia Workshop, Microsoft Research Asia, Beijing, China, July 2005
- *Affective Video Content Analysis: The needs and possibilities*, Philips Research, Briarcliff Manor NY, USA, June 2003

11. CONFERENCE/WORKSHOPS CHAIRS (selected)

- **General Chair**
 - ACM Multimedia Conference 2016, Amsterdam, The Netherlands
 - ACM Multimedia Conference 2009, Beijing, China
 - IS&T/SPIE Conference on Multimedia Content Access: Algorithms and Systems, 2007, San Jose, USA
 - IS&T/SPIE Conference on Multimedia Content Analysis, Management and Retrieval, 2006, San Jose, USA
- **Program Chair**
 - International Conference on Content-based Multimedia Indexing (CBMI) 2018, La Rochelle, France
 - ACM Multimedia Conference 2014, Orlando, Florida, USA
 - IEEE International Conference on Multimedia and EXPO (ICME) 2013, San Jose, USA
 - IEEE International Conference on Multimedia and EXPO (ICME) 2012, Melbourne, Australia
 - ACM International Conference on Multimedia Retrieval (ICMR) 2011, Trento, Italy
 - International Workshop on Content-based Multimedia Indexing (CBMI) 2010, Grenoble, France
 - ACM Conference on Image and Video Retrieval (CIVR) 2008, Niagara Falls, Canada
 - ACM Multimedia Conference 2007, Augsburg, Germany
- **Area/Track Chair/Senior PC member**
 - International Joint Conference on Artificial Intelligence (IJCAI), Macao 2019
 - ACM Recommender Systems Conference, 2015 (Vienna), 2017 (Como), 2018 (Vancouver), 2019 (Kopenhagen)
 - IEEE International Conference on Image Processing 2011, Brussels, Belgium
 - IEEE International Conference on Image Processing 2010, Hong Kong
 - WWW 2008 conference, Beijing (China)
 - International Conference on Multimedia Modeling 2007, Singapore
 - Pacific Rim Conference on Multimedia 2007, Hong Kong
 - IEEE International Conference on Multimedia and EXPO 2007, Beijing (China)

12. PROFESSIONAL ACTIVITIES (selected)

- Member, Board of the Dutch 4TU National Research Institute on ICT (NIRICT)
- Member, Program Committee of the Dutch STW Maps4Society research program
- Member, Scientific Committee, ASCI Research School
- Scientific coordinator, EU FP7 STREP project Phenix, 2013-2016
- Project leader, project “Socially-Enriched Access to Linked Cultural Media”, Dutch FES COMMIT research program, 2011-2016
- Co-initiator and member of the Steering Board, EU FP7 Network of Excellence “PetaMedia”, 2008-2011
- Member, expert panel evaluating project teams of INRIA, France, October 2010
- Project leader, Project “Video at your Fingertips”, Dutch BSIK MultimediaN research program, 2004 - 2009
- Coordinator of the Strategic Research Agenda on Natural and Intuitive Interaction and Information Access, Dutch National Center for Research on ICT (NIRICT), 2006-2008
- Examiner/assessor of Ph.D. theses, funding proposals and academic promotions at universities: EPFL, TU Munich, Nanyang Technological University, Tsinghua University, SUNY Albany, Dublin City University, City University of Hong Kong, Monash University, Florida Atlantic University, universities of Newcastle, Bordeaux, Twente, Lille, Surrey, Amsterdam, Klagenfurt, Alabama and Miami

13. PANELS AND TUTORIALS (selected)

- Half-day tutorial *Frontiers in Multimedia Search* (together with M. Larson)
 - ACM Multimedia 2010 conference, Florence, Italy 2010, number of attendees: 50+
 - ACM Multimedia 2011 conference, Scottsdale, USA 2011, number of attendees: 50+
- Chair, Panel *The Influence of Internet Hypes on Multimedia Information Retrieval Research*, ACM Conference on Multimedia Information Retrieval 2010
- Chair, Panel *Multimedia: A Buzzword or a World of Possibilities?* Picture Coding Symposium 2007
- Member, Panel *Multimedia processing beyond TRECVID*, ACM Multimedia Conference 2007
- Member, Panel *New Frontiers of Media Management and Media Content Analysis*, SPIE/IS&T ELECTRONIC IMAGING: Storage and Retrieval for Media Databases 2001

14. SUPERVISOR OF THE FOLLOWING Ph.D. THESES

1. Dr. ir. **Richard den Hollander**, *Random Sampling Methods for Two-View Geometry Estimation*, May 2007
2. Dr. **Lie Lu**, *Content Discovery from Composite Audio: An Unsupervised Approach*, December 2009
3. Dr. **Umut Naci**, *Multimedia Content Analysis, Indexing and Summarization: A perspective on real-life use-cases*, January 2010
4. Dr. **Hasan Celik**, *Dominant Object Detection for Autonomous Vision-Based Surveillance*, February 2010
5. Dr. **Stevan Rudinac**, *Advancing the Relevance Criteria for Video Search and Visual Summarization*, May 2013
6. Dr. **Yue Shi**, *Ranking and Context-Awareness in Recommender Systems*, June 2013
7. Dr. **Linjun Yang**, *Advanced Retrieval Models for Web Image Search*, July 2013
8. Dr. **Christoph Kofler**, *User Intent in Online Video Search*, November 2015
9. Dr. **Cynthia Liem**, *Multifaceted Approaches to Music Information Retrieval*, November 2015
10. Dr. **Xinchao Li**, *Large Scale Image Retrieval for Location Estimation*, October 2016
11. Dr. **Bo Qu**, *Dynamic Processes on Complex Networks*, September 2017
12. Dr. **Raynor Vliegendarth**, *Incorporating Crowd Perspectives into Multimedia Retrieval Systems*, November 2017
13. Dr. **Alessio Bazzica**, *Music Information Retrieval beyond Audio*, December 2017
14. Dr. **Ernestasia Siahaan**, *Quality of multimedia experience*, October 2018
15. Dr. **Babak Loni**, *Recommender systems*, December 2018
16. **Yi Zhu**, *Quality of multimedia experience*, expected to graduate in 2019
17. **Karthik Yadati**, *Multimedia indexing*, expected to graduate in 2019
18. **Jaeyoung Choi**, *Privacy in multimedia interaction*, expected to graduate in 2020
19. **Xiu Xiu Zhan**, *Complex networks*, expected to graduate in 2021
20. **Jaehun Kim**, *Recommender systems*, expected to graduate in 2021
21. **Zhe Li**, *Recommender systems*, expected to graduate in 2022
22. **Manel Slokom**, *Recommender systems*, expected to graduate in 2022
23. **Shishir Subramaniam**, *Multimedia systems*, expected to graduate in 2022
24. **Tianyi Zhang**, *Multimedia systems*, (collaboration with CWI, Amsterdam), expected to graduate in 2023
25. **Andrew Demetriou**, *Recommender systems*, expected to graduate in 2023
26. **Sandy Manolios**, *Recommender systems*, expected to graduate in 2023
27. **Alberto Ceria**, *Network data science*, expected to graduate in 2023

15. PUBLICATIONS AND PATENTS

Prof. Hanjalic is co-inventor of one patent and has (co-)authored and (co-)edited 3 books, 8 invited book chapters/sections, 50+ international journal publications, 100+ papers in scientific conferences and 8 special issues/sections in top-level IEEE journals (among which the Proceedings of the IEEE and IEEE Trans. on Multimedia). His publications resulted from collaborations with different teams of authors/editors and have led to 8000+ citations and H-index of 42 (source: Google Scholar). Fifteen publications (including two books) have received more than 100 citations. Four best cited journal papers (in all as first author) have received 600+, 600+, 400+ and 400+ citations.

Patents

1. L.-Q. Xu, **A. Hanjalic** (inventors), *Image Processing for Analyzing Video Content*, United States Patent US 7,593,618 B2, September 2009, Assignee: British Telecommunications plc.

Books

1. T. Mei, X.-S. Hua, **A. Hanjalic** (Eds.), *Online Multimedia Advertising: Techniques and Technologies*, IGI Global, 2010, ISBN 1609601890
2. **A. Hanjalic**: *Content-Based Analysis of Digital Video*, Kluwer Academic Publishers (now Springer), Norwell, MA, 2004, ISBN 1-4020-8114-6
3. **A. Hanjalic**, G.C. Langelaar, P.M.B. van Roosmalen, J. Biemond, R.L. Lagendijk: *Image and Video Databases: Restoration, Watermarking and Retrieval*, Elsevier Science, Amsterdam (NI), 2000, ISBN 0-444-50502-4

Book chapters (all invited)

1. L. Lu, **A. Hanjalic**: 5 invited sections titled *Audio*, *Audio Classification*, *Audio Content Analysis*, *Audio Representation* and *Audio Segmentation*, on in total 27 pages, in *Encyclopedia of Database Systems*, Ling Lie and Tamer Ozsu (eds.), Springer 2009
2. L. Lu, **A. Hanjalic**: *Audio Content Discovery: An Unsupervised Approach*, In Ajay Divakaran (ed.) *Multimedia Information Retrieval: Theory and Applications*, ISBN 978-0-387-76567-9, Springer 2009, pp. 85-124
3. **A. Hanjalic**: *Datamining for Video Retrieval*, In J.Meij (eds.): *Dealing with Data Flood*, STT, April 2002, pp. 469-479
4. **A. Hanjalic**, R.L. Lagendijk, J. Biemond: *A New Method for Key Frame based Video Content Representation*, In A.W.M. Smeulders and R. Jain (eds.): *Image Databases and Multi-Media Search*, ISBN 981-02-3327-2, World Scientific Singapore, Singapore 1998, pp. 97-110

Journal Special Issues/Sections

1. **A. Hanjalic**, J. Biemond (Eds.): *International Journal of Image and Graphics* (World Scientific, Singapore), *Special Issue on Image and Video Retrieval*, July 2001
2. **A. Hanjalic**, R. Lienhart, W.-Y. Ma, J.R. Smith (Eds.): *Proceedings of the IEEE*, *Special Issue on Advances in Multimedia Information Retrieval*, April 2008
3. B. Bailey, N. Sebe. **A. Hanjalic** (Eds.): *ACM Transactions on Multimedia Computing, Communications and Applications*, *Special Section based on the ACM Multimedia conference 2007*, October 2008
4. J. Luo, Q. Tian, **A. Hanjalic**, A. Jaimes (Eds.): *IEEE Transactions on Multimedia*, *Special Issue on Integration of Context and Content for Multimedia Management*, February 2009
5. Y. Li, M.-L. Shyu, **A. Hanjalic**, L. Zhang (Eds.): *ELSEVIER Journal of Visual Communication and Image Representation*, *Special Issue on Emerging Techniques for Multimedia Content Sharing, Search and Understanding*, February 2009
6. C. Xu, **A. Hanjalic**, S. Yan, Q. Liu, A. Smeaton (Eds.): *IEEE Transactions on Multimedia*, *Special Section on Object and Event Classification in Large-Scale Video Collections*, February 2012
7. S. Illari, F. Sèdes, F. De Natale, **A. Hanjalic** (Eds.): *IEEE Multimedia Magazine*, *Special Issue on Multimedia Data Management in Mobile Computing*, Vol. 21, No. 1, January–March 2014
8. M. Soleymani, Y.-H. Yang, G. Irie, **A. Hanjalic** (Eds.): *IEEE Transactions on Affective Computing*, *Special Issue on Advances in Affective Analysis in Multimedia*, Vol.6, No.3, July-September 2015

Journal papers

1999

1. **A. Hanjalic**, R.L. Lagendijk, J. Biemond: *Automated High-Level Movie Segmentation for Advanced Video Retrieval Systems*, IEEE Trans. on Circuits and Systems for Video Technology, Vol.9, No.4, pp. 580-588, June 1999
2. **A. Hanjalic**, H. Zhang: *An Integrated Scheme for Automated Video Abstraction based on Unsupervised Cluster-Validity Analysis*, IEEE Trans. on Circuits and Systems for Video Technology, Vol.9, No.8, pp. 1280-1289, December 1999

2001

3. **A. Hanjalic**, R.L. Lagendijk, J. Biemond: *Video Content Analysis: From Low-level Features to Video Semantics*, Int. Journal of Image and Graphics, Vol.1, No.1, World Scientific, Singapore, pp. 63-82, January 2001 (**invited paper**)
4. **A. Hanjalic**, G. Kakes, R.L. Lagendijk, J. Biemond: *Indexing and Retrieval of Broadcast News Programs using DANCERS*, SPIE/IS&T Journal of Electronic Imaging, Vol.10, No.4, pp. 871-882, October 2001

2002

5. **A. Hanjalic**: *Shot-boundary Detection: Unraveled and Resolved?*, IEEE Trans. on Circuits and Systems for Video Technology, Vol.12, No.2, pp. 90-105, Feb. 2002

2005

6. **A. Hanjalic**, L.-Q. Xu: *Affective Video Content Representation and Modeling*, IEEE Trans. on Multimedia, Vol.7, No.1, pp. 143-154, February 2005
7. **A. Hanjalic**: *Adaptive Extraction of Highlights from a Sport Video based on Excitement Modeling*, IEEE Trans. on Multimedia, Vol.7, No.6, pp. 1114-1122, December 2005

2006

8. **A. Hanjalic**: *Extracting Moods from Pictures and Sounds: Towards Truly Personalized TV*, IEEE Signal Processing Magazine, Vol.23, Issue 2, pp. 90-100, March 2006
9. R. Cai, L. Lu, **A. Hanjalic**, H.-J. Zhang, L.-H. Cai: *A Flexible Framework for Key Audio Effects Detection and Auditory Context Inference*, IEEE Trans. on Speech and Audio Processing, Vol.14, Issue 3, pp. 1026-1039, May 2006

2007

10. **A. Hanjalic**: *Towards Theoretical Performance Limits of Video Parsing*, IEEE Trans. on Circuits and Systems for Video Technology, Vol.17, Issue 3, pp. 261-272, March 2007 (**invited paper**)

2008

11. L. Lu, **A. Hanjalic**: *Audio Keywords Discovery for Text-Like Audio Content Analysis and Retrieval*, IEEE Trans. on Multimedia, Vol.10, Issue 1, pp. 74-85, January 2008
12. **A. Hanjalic**, R. Lienhart, W.-Y. Ma, J.R. Smith: *The Holy Grail in Multimedia Information Retrieval: So Close or Yet So Far Away?*, Proceedings of the IEEE, Special Issue on Advances in Multimedia Information Retrieval (**editorial paper**), April 2008
13. R. Cai, L. Lu, **A. Hanjalic**: *Co-Clustering for Auditory Scene Categorization*, IEEE Trans. on Multimedia, Vol.10, Issue 4, pp. 596-606, June 2008

2009

14. L. Lu, **A. Hanjalic**: *Text-Like Segmentation of General Audio for Content-Based Retrieval*, IEEE Trans. on Multimedia, Vol. 11, Issue 4, pp. 658-669, June 2009
15. B. Kroon, S. Maas, S. Boughorbel, **A. Hanjalic**: *Eye Localization in Low and Standard Definition Content with Application to Face Matching*, Computer Vision and Image Understanding, Volume 113, Issue 8, Pages 921-933, August 2009
16. H. Celik, **A. Hanjalic**, E.A. Hendriks: *Unsupervised and Simultaneous Training of Multiple Object Detectors from Unlabeled Surveillance Video*, Computer Vision and Image Understanding, Volume 113, Issue 10, Pages 1076-1094, October 2009

2010

17. E.A.P. Smits, **A. Hanjalic**: *A System Concept for Socially Enriched Access to Soccer Video Collections*, IEEE Multimedia magazine, Vol.17, Issue 4, Pages 26-34, October-December 2010

2011

18. L. Yang, B. Geng, **A. Hanjalic**, X.-S. Hua: *A Unified Context Model for Web Image Retrieval*, ACM Trans. on Multimedia Computing, Communications and Applications (TOMCCAP), Vol.2, No.3, May 2011
19. H. Celik, **A. Hanjalic**, E.A. Hendriks: *A Framework for Unsupervised Training of Object Detectors from Unlabeled Surveillance Video*, Journal of Ambient Intelligence and Smart Environments, Special Issue on Computer Vision for Ambient Intelligence, Vol. 3, Issue 3, pp. 213-235, August 2011
20. L. Yang, B. Geng, Y. Cai, **A. Hanjalic**, X.-S. Hua: *Object Retrieval using Visual Query Context*, IEEE Trans. on Multimedia, Vol. 13, Issue 6, pp.1295 – 1307, December 2011

2012

21. L. Yang, **A. Hanjalic**: *Prototype-based Image Search Reranking*, IEEE Trans. on Multimedia, Vol. 14, No. 3, pp.871-882, June 2012
22. **A. Hanjalic**: *New Grand Challenge for Multimedia Information Retrieval: Bridging the Utility Gap*, International Journal of Multimedia Information Retrieval, Vol.1, Issue.3, October 2012 (**invited paper**)
23. S. Rudinac, M. Larson, **A Hanjalic**: *Leveraging Visual Concepts and Query Expansion Selection for Semantic Theme level Video Retrieval*, International Journal of Multimedia Information Retrieval, Vol.1, Issue 4, pp.263-280, December 2012

2013

24. Y. Shi, M.A. Larson, **A. Hanjalic**: *Mining Contextual Movie Similarity with Matrix Factorization for Context-Aware Recommendation*, ACM Trans. on Intelligent Systems and Technology, Vol. 4, Issue 1, January 2013
25. C.C.S. Liem, M.A. Larson, **A. Hanjalic**: *When Music Makes a Scene - Characterizing Music in Multimedia Contexts via User Scene Descriptions*, International Journal of Multimedia Information Retrieval, , Vol. 2, Issue 1, pp 15-30, March 2013
26. Y. Shi, M.A. Larson, **A. Hanjalic**: *Unifying Rating-oriented and Ranking-oriented Collaborative Filtering for Improved Recommendation*, Information Sciences Journal (Elsevier), Vol. 229, pp. 29-39, April 2013
27. L. Yang, **A. Hanjalic**: *Learning to Rerank Web Images*, IEEE MultiMedia, Vol. 20 , Issue: 2, pp. 13 – 21, April-June 2013
28. S. Rudinac, M. Larson, **A Hanjalic**: *Generating Visual Summaries of Geographic Areas Using Community Contributed Images*, IEEE Trans. on Multimedia, Vol.15, No.4, pp.921-932, June 2013
29. Y. Shi, P. Serdyukov, **A. Hanjalic**, M.A. Larson: *Non-trivial Landmark Recommendation using Geotagged Photos*, ACM Trans. on Intelligent Systems and Technology, Vol.4, No.3, 2013
30. L. Yang, Y. Cai, **A. Hanjalic**, X.-S. Hua, S. Li: *Searching for Images by Video*, International Journal of Multimedia Information Retrieval, Vol.2, Issue 3, pp. 213-225, September 2013
31. **A. Hanjalic**: *Multimedia Retrieval that Matters*, ACM Trans. on Multimedia Computing, Communications and Applications, Special Issue “20 Years of ACM Multimedia”, Vol.9, No.1s, October 2013 (**invited paper**)
32. S. Rudinac, M.A. Larson, **A. Hanjalic**: *Learning Crowdsourced User Preferences for Visual Summarization of Image Collections*, IEEE Trans. on Multimedia, Vol.15, No.6, October 2013

2014

33. Y. Shi, M.A. Larson, **A. Hanjalic**: *Collaborative Filtering beyond the User-Item Matrix*, ACM Computing Surveys, Vol. 47, Issue 1, April 2014
34. M. Soleymani, M.A. Larson, T. Pun, **A. Hanjalic**: *Corpus Development for Affective Video Indexing*, IEEE Trans. on Multimedia, Vol.16, No.4, June 2014
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3. E. Steinbach, **A. Hanjalic**, B. Girod: *3D Motion and Scene Structure Estimation with Motion Dependent Distortion of Measurement Windows*, IEEE International Conference on Image Processing (ICIP), Lausanne (CH), 1996
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68. Y. Shi, M. Larson, **A. Hanjalic**: *Towards Understanding the Challenges Facing Effective Trust-Aware Recommendation*, ACM RecSys '10 Workshop on Recommender Systems and the Social Web, 2010.
69. Y. Shi, M. Larson, **A. Hanjalic**: *Connecting with the Collective: Self-contained Reranking for Collaborative Recommendation*, ACM Int. Workshop on Connected Multimedia, 2010

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72. Y. Shi, M. Larson, **A. Hanjalic**: *How Far are we in Trust-Aware Recommendation?*, 33rd European Conference on Information Retrieval (ECIR), 2011
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79. L. Yang, **A. Hanjalic**: *Searching for Images by Video*, ACM Multimedia conference, Scottsdale, US, November 2011
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