

## Prof.dr. Alan Hanjalic



Alan Hanjalic is a professor of computer science (CS) at TU Delft, The Netherlands, founder and head of the Multimedia Computing Group and head of the Department of Intelligent Systems, one of the two TU Delft's CS departments. He was a visited scientist and lecturer at several academic and industrial research institutes in Europe, United States and China.

**Research interests and expertise** of Prof. Hanjalic are in the field of multimedia information retrieval, in which he (co)invented 1 patent and (co)authored and (co)edited more than 250 publications, among which three books. The fundamental question Prof. Hanjalic is interested in is how to provide efficient, effective, intuitive and (socially) 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.

Regarding **awards and honours**, 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 three Best Paper Awards and two Grand Challenge Awards (algorithmic solution to a given practical challenge) in the major ACM and IEEE conferences in his field. 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 major 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 CIVR/ICMR conference (Program Chair 2008 and 2011). He has also been a Senior Program Committee member of ACM RecSys conference regularly since 2015. Prof. Hanjalic was an **invited (keynote/plenary) speaker** at more than twenty 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.

As **department head**, he has been leading an organization of 250+ people. His focus has been on creating strategic and financial framework for the department to grow substantially in terms of faculty members (from 31 in 2018 to 50 in 2025) in order to optimally contribute to the education of 2500 CS students. Furthermore, he has focused on organizing appropriate office space for the rapidly growing department, on modernizing the CS tenure-track system and increasing the gender diversity. Finally, he has focused on improving the conditions for the new faculty members to start out and develop towards higher academic ranks, emphasizing the diversity of academic careers and reconsidering the ways in which staff members are recognized and rewarded in the key areas of education, research, impact and leadership. He was appointed Chair of the Advisory Board of the ARIA-LDE project of the TU Delft, Leiden University, Erasmus University and Erasmus Medical Center. The project explores new types of structured information about scholarly activities and outputs and new strategies for using and analyzing this information to stimulate the career progress in academia according to individual qualities and ambitions of academics, recognizing team performance, emphasizing quality over quantity, and encouraging open science and academic leadership.

## 1. CONTACT DETAILS

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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

- Professor, Antoni van Leeuwenhoek Chair 2012 – present
- Associate Professor, Department of Intelligent Systems 2005 – 2012
- Assistant Professor, Department of Mediamatics 1999 – 2005

## 4. ACADEMIC OFFICES @ TU Delft

- Deputy dean, Faculty EEMCS 2021
- Chair, TU Delft Professorship Appointment Committee (for external applicants) 2021 – 2024
- Chair, 3ME Faculty Advisory Board for Professorship Promotions (for internal applicants) 2020 – present
- Member, TU Delft Professorship Appointment Committee (for external applicants) 2018 – 2021
- Head, Department of Intelligent Systems 2018 - present
- Member, EEMCS Academic Career Development Committee 2016 – 2018
- Member, TU Delft Board of Professors (*Raad van Hoogleraren*) 2015 – 2019
- Founder and Head, Multimedia Computing Group 2014 - present
- Chair, Board of Studies Computer Science 2014 – 2018
- Head, Multimedia Signal Processing Group 2012 - 2013
- Founder and Coordinator, Delft Multimedia Information Retrieval Lab 2009 – 2013

## 5. ACADEMIC VISITS

- UESTC, Chengdu, China 2017, 2019
- University of Granada, Granada, Spain 2008 – 2013
- Microsoft Research Asia, Beijing, China 2005
- Philips Research, Briarcliff Manor, USA 2003
- British Telecom Labs, Ipswich, UK 2000
- Hewlett-Packard Labs, Palo Alto, USA 1998

## 6. AWARDS AND HONORS

- 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: TU Delft, February 2012)
- **Best Paper Award**, IEEE Conference on Multimedia Big Data (BigMM) 2019, together with J. Choi, M. Larson and G. Friedland
- **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

## 7. TALKS, PUBLICATIONS AND PATENTS

Prof. Hanjalic held 20+ invited talks, as a keynote or plenary speaker in the international conferences and workshops, or at various other occasions at academic institutes, in industry or in general public contexts. He is co-inventor of one patent and has (co-)authored and (co-)edited 3 books, 8 invited book chapters/sections, more than 250 publications in major international scientific journals and conferences, and 8 special issues/sections in top-level IEEE journals (among which the Proceedings of the IEEE and IEEE Trans. on Multimedia). See the latest update of the publications list on the [Google Scholar](#) profile.

## 8. PROFESSIONAL APPOINTMENTS AND COMMITTEE MEMBERSHIPS (selected)

- **Chair, Advisory Board**, ARIA, joint project of TU Delft, Leiden University and Erasmus University since 2022
- **Member of the Board**, Dutch 4TU National Research Institute on ICT (NIRICT) since 2019
- **Chair, Steering Committee**, IEEE Transactions on Multimedia 2014-2016
- **Associate Editor-in-Chief**, IEEE Multimedia Magazine, responsible for special issues 2014-2017
- **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
- **General Chair**
  - ACM Multimedia Conference **2016**, Amsterdam, The Netherlands and **2009**, Beijing, China
  - IS&T/SPIE Conference on Multimedia Content Access: Algorithms and Systems, **2006** and **2007**, San Jose, USA
- **Program Chair** (large venues only)
  - ACM Multimedia Conference **2007**, Augsburg, Germany and **2014**, Orlando, Florida, USA
  - IEEE International Conference on Multimedia and EXPO (ICME) **2012**, Melbourne, Australia, **2013**, San Jose, USA
  - ACM International Conference on Multimedia Retrieval (ICMR) 2011, Trento, Italy
  - ACM Conference on Image and Video Retrieval (CIVR) 2008, Niagara Falls, Canada

## 9. PROFESSIONAL AND EDUCATIONAL ACTIVITIES (selected)

- The main responsible supervisor of **30+ PhD students** (19 already graduated, the rest still active)
- Examiner/assessor of Ph.D. theses, funding proposals and academic promotions at universities: EPFL, TU Munich, TU Vienna, 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
- Member, expert panel evaluating project teams of INRIA, France, October 2010
- Scientific coordinator, EU FP7 STREP project Phenix, 2013-2016
- Project leader, "Socially-Enriched Access to Linked Cultural Media", Dutch FES/COMMIT program, 2011-2016
- Co-initiator and member of the Steering Board, EU FP7 Network of Excellence "PetaMedia", 2008-2011
- 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

## 10. 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**