

PERSONAL INFORMATION

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**CAREER PROFILE: EDUCATION and EMPLOYMENT**

- PhD (Computer Science) University College Dublin (1983-1987).
- M.Sc. (research) University College Dublin (1980-1982).
- B.Sc. (hons) University College Dublin (1976-1980).
- Founding Director, Insight Centre for Data Analytics, Dublin City University (2013-2019)
- Deputy Director, CLARITY Centre for Sensor Web Technologies, Dublin City Univ. (2007-2012)
- Visiting Professor, University College Dublin (2008-2012).
- Head of School of Computing (1999-2002), Dean of Faculty (2000-2002).
- Full Professor, Dublin City University (1997-present).¹
- Visiting Researcher, Université Josef Fourier, Grenoble, France (1995).
- Senior Lecturer, Dublin City University (1992-1997).
- Lecturer, Dublin City University (formerly NIHE, Dublin) 1987-1992.

PUBLICATION SUMMARY

I have more than 600 refereed publications, and over 13,700 citations to my work on Google SCHOLAR (6,182 since 2012), and an h-index of 58 (h-index = 35 since 2011) making me the second most-cited computer scientist in Ireland according to Google SCHOLAR. My i10-index on SCHOLAR is 224.

LEADERSHIP POSITIONS

- Joint (and founding) coordinator of TRECVID – the largest worldwide benchmarking evaluation on content-based analysis of multimedia (digital video). his commenced in 2001 and runs annually.
- Chair of ACM SIGMM (Special Interest Group in Multimedia), (2017-)
- **Founding Member**, Editorial Board, *Foundations & Trends in Information Retrieval* (2006-2014).
- **Founding Member**, Editorial Board, *ACM Jnl. on Computers and Cultural Heritage* (2006-2015).
- **Founding Member**, Editorial Board, *Information Retrieval Journal* (1998-2007).
- Member, Editorial Board, *Information Processing and Management* (2000-).
- Advisory Editor, *Journal on Information Retrieval and Knowledge Management* (2012-).
- Member, Editorial Board, *International Journal on Digital Libraries* (2002-2011).
- Associate Editor, *ACM Transactions on Information Systems* (1996-2004).
- Member of the **Scientific Committee of COST** (*European Cooperation in Science and Technology*), an EU funding program with a budget of €300m in Horizon 2020.
- Member of the **International Advisory Committee** (IAC) of the COMunications INformation Science Laboratores (COMINLabs), a large research centre in Bretagne, France, (2012-).
- Member of the **International Review Committee** for Institut Eurecom, Sophia Antipolis, France.
- Member of the **International Review Committee** for the School of Computer Science, National University of Singapore, 2013.
- Member of the **founding steering group** of TREC, the annual Text Retrieval Evaluation Conference carried out at the US National Institute for Standards and Technology, US, 1991-1996.
- ARNETMINER² lists me as the 17th ranked active inventor for the topic *Information Retrieval/Probabilistic Indexing* and as the 11th ranked active inventor for the topic *Large Scale Video Retrieval*.

¹ At the time I was the youngest Full Professor of Computing in Ireland and remain the 2nd youngest ever appointed.

² ARNETMINER is an automated system which mines deep knowledge from scientific networks and publications. It has (automatically) identified 200 different domains (topics) based on an author-conference publication-topic model

AWARDS AND APPOINTMENTS

- Elevated to **Fellow of the IEEE**, January 2017 for “*outstanding contribution to multimedia indexing and retrieval*”.
- Royal Irish Academy **Gold Medal** for Engineering Sciences, 2015. Awarded once every 3 years, the RIA Gold Medals were established in 2005 “*to acclaim Ireland’s foremost thinkers in the humanities, social sciences, physical & mathematical sciences, life sciences, engineering sciences and the environment & geosciences*”.
- Awarded the **Niwa-Takayanagi Prize** by the Institute of Image Information and Television Engineers, Japan for outstanding achievements in the field of video information media and in promoting basic research in this field.
- Admitted to **Membership** of the Royal Irish Academy, Ireland’s highest academic distinction, May 2013, for “*world-class contribution to science*”. I now chair the Academy’s *Engineering and Computer Sciences* Committee (2014-2018) and am a member of the Academy’s *Academic Board*.
- Member of the **Irish Research Council** (2012-2015, 2015-2018), an appointment by the Irish Government.
- Member of the **Irish Research Council for Science, Engineering and Technology**, (2011-2012), appointed by Ireland’s Minister for Research and Innovation.
- Winner of DCU Educational Trust Leadership Circle award (2009) for “*world-leading work in the area of digital video processing*”.
- Winner of **Tony Kent Strix award** (2011) from the UK e-Information Society for “*sustained contributions to the field of ... indexing and retrieval of image, audio and video data*”.

SCIENTIFIC REFEREEING AND PROGRAM COMMITTEE ACTIVITIES

Since 1989 I have refereed papers for 29 different journals, most of them on numerous occasions, and in a range of disciplines. I have also served on over 200 separate program committees for international conferences or international workshops, often in roles such as Program Committee Chair, Area Chair, Best Papers chair, etc. These events include marquee conferences such as ACM MULTIMEDIA, ACM SIGIR, ECIR, ICME, WSDM and WWW.

I have assisted the European Commission since 1990 in dozens of roles, as an evaluator of project proposals and a reviewer of ongoing projects. I have also reviewed research project proposals for **22 research funding agencies**, including research councils in Australia, Austria, Belgium, France, Hong Kong, Ireland, the Netherlands, New Zealand, Portugal, Romania, Singapore, Switzerland, EPSRC (UK), Royal Society of Edinburgh, European Research Council, Niels Stensen Stichting (the Netherlands), Dutch Technology Foundation (STW) (the Netherlands), IWT-Vlaanderen, Nuffield Foundation, National Science Foundation (US), Ontario Research Fund (Canada), and the AHRB (UK).

SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- I have directly supervised 50 research M.Sc. and PhD students to graduation, the majority at PhD level. These now work in companies like Google, Yahoo!, Microsoft Research, AOL, IBM, Facebook, etc., in academia (Singapore, Malaysia, Ireland), and in start-up businesses in Ireland and abroad.
- I presently supervise 4 PhD students and have 3 postdoctoral researchers working directly for me, and I oversee the work of a team of over 80 researchers at the Insight Centre for Data Analytics in DCU.
- I have examined over 30 PhD or *Habilitation a Diriger des Recherches* (HDR) theses external to my own University, including Universities in Helsinki (Aalto), Southampton (x2), Putra (Malaysia), Leiden, Amsterdam (UvA x2), Limerick, Khalifa Univ. of Science and Technology (UAE) (x2), RMIT Univ., Trinity College Dublin (x2), Glasgow, Oulu (x2), Luleå, Surrey, Univ. College Dublin (x2), Univ. Josef Fourier (Grenoble) (x2), Australian National, Ulster (x2), Twente (x2), and U.C. London.

RESEARCH FUNDING HISTORY

I have been personally responsible for securing over €13.57M in funding for **my own** research, i.e. my part of larger grant awards, from Irish funding agencies (Science Foundation Ireland, Enterprise Ireland, Marine Institute, Environmental Protection Agency, the Irish Research Council, IRCSET), directly from industry (Samsung (Korea), QinetiQ (UK), Microsoft Research (UK), Google (US), Fujitsu (Japan), SAP, Aviva, Synchronoss Technologies, FX PAL (US), Compact Imaging (US)), from European Union sources including FP5, FP6, FP7, H2020, EU Regions of Knowledge, Marie Curie, from the UK Medical Research Council, the Health Research Board of New Zealand and the European Space Agency.