Alberto Del Bimbo

Born on OMISSIS.
Resident in OMISSIS

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SUMMARY OF RESEARCH CAREER AND ACHIEVEMENTS

Research activity

Prof. Del Bimbo is a distinguished scientist in Computer Engineering, doing research and research transfer on Computer Vision, Artificial Intelligence and Multimedia, and their applications to industry and society.
He received his Master Degree in Electronic Engineering from University of Firenze, in 1977. He was with IBM Italy from 1978 to 1988. In 1988 he joined University of Firenze as Associate Professor of Computer Engineering. In 1994 he was promoted to Full Professor and moved to the Department of Computer Engineering, University of Brescia. From 1995 he went back to University of Firenze in the Department of Systems and Computer Science. Since 2013, he is with the Department of Information Engineering where he teaches courses on *Multimedia Design and Development* and *Visual and Multimedia Recognition.*

Prof. Del Bimbo leads a research team at MICC - Media Integration and Communication Center of University of Firenze, investigating cutting-edge solutions in the fields of computer vision, artificial intelligence and multimedia. Prof. Del Bimbo was one of the first researchers to start research in image and video content-based retrieval in the late 80's. He is the author of the monography *Visual Information Retrieval*, edited by Morgan Khaufman in 1999, which was one of the most cited books in the early times of image and video content-based retrieval. Prof. Del Bimbo has worked actively over 30 years in Pattern Recognition and Computer Vision. His research interests have been in surveillance and monitoring, industry automation, smart environments for cultural heritage, enhanced and personalized interactivity. He leaded important collaborations with national and international companies, such as *Leonardo Finmeccanica*, *RFI Rete ferroviaria Italiana*, *Thales Italia*, *Panasonic*, *US IARPA Agency, IMRA Europe (AISIN group), NVIDIA*, just to cite the most recent and ongoing collaborations.

Scientific publications

Prof. Del Bimbo published refereed research papers in the most prestigeous scientific Journals and Conference Proceedings as reported in the later listings.

Total Publications	Books	Journals
726	3	126

The list of publication is available at https://scholar.google.com/ [Del Bimbo Alberto]

Google Scholar (April 2021):

- Citations:17541
- H-Index: 60
- I10-index 294

Recognitions

Prof. Del Bimbo was the recipient of the prestigeous Award for "*Outstanding Technical Contributions to Multimedia Computing, Communications and Applications",* issued by ACM SIGMM. In 2016, he was awarded as *ACM Distinguished Scientist*, "*in recognition of significant accomplishments in and impact on the computing field"*. He is:

- *IAPR Fellow*, (since 2000)
- *IEEE Senior Member* (since 2014)
- *ACM Distinguished Scientist* (since 2016)

SCIENTIFIC AND PROFESSIONAL SERVICES

Prof. Del Bimbo has served scientific and cultural institutions and associations at the national and international level.

Services in the University of Firenze

- *Director* of *NEMECH–New Media for Cultural Heritage Competence Center* Research Center established by the Tuscany Regional Government and University of Firenze for intelligent ICT solutions for museums and cultural heritage (from 2013 to present)
- *Director* of *MICC–Media Integration and Communication Center*, a National Center of Excellence established by the Italian Ministry of Research for research and technology transfer on intelligent media analysis (from 2008 to 2020)
- *Director* of *Master in Multimedia Content Design,* a national post-graduate school on Multimedia technology (from 1998 to 2015)
- *President* of *Foundation for Research and Innovation* a public body established by University of Firenze, Provincial Governments of Firenze, Prato and Pistoia and Chambers of Commerce of Firenze, Prato and Pistoia for research transfer (from 2007 to 2010)
- *Deputy-Recto*r of *University of Firenze* for *Research and Innovation Transfer* (from 2000 to 2006)
- *Director* of *Department of Systems and Computer Science* of *University of Firenze* (from 1997 to 2000)
- *Member* of *Academic Senate at Large* of *University of Firenze* (from 1998 to 1999)

Services in national and international scientific and cultural institutions

- ACM SIGMM Chair, *Association for Computing Machinery,* international (from 2021)
- *Scientific Advisor of ILearn Intelligent Media Research Center*, Shandong University, China (from 2020)
- *Member of Scientific Advisory Board of NVAITC NVIDIA AI Technology Center*, NVIDIA, Italy, (from 2020)
- *Member of Scientific Advisory Committee of INSIGHT Centre for Data Analytics,* Science Foundation Ireland (from 2019)
- *Member* of the *International Scientific Advisory Board of B-COM,* French public-private body led by Orange, France Télécom, TdF, INRIA, Institut Telecom and Supélec in artificial intelligence 5G networks and Internet of Things, France (from 2013 to 2020)
- *Member* of the *International Scientific Advisory Board of COMMIT/,* Dutch national public-private ICT-research and technology program, The Netherlands (from 2011 to 2017)

- *Member* of *International Scientific Advisory Board of CATCH Continuous Access to Cultural Heritage program*, NWO Dutch Organization for Scientific Research Development, The Netherlands (from 2005 to 2015)
- *Member* of the *Review Committee for Computer Science for the Association of Netherlands Universities*, The Netherlands (2005, 2008, 2010)
- *Member* of the *International Scientific Board of QUANU Quality Assurance of Netherlands Universities*, The Netherlands (from 2005 to 2007)
- *Member* of the *Joint Working Group on Digital Imagery for Significant Cultural and Historical Materials*, EC-US NSF (from 2003 to 2005)

Services in international research associations

- *Member* of the *Steering Committee of ACM MM Asia Int'l Conf. on Multimedia Asia* (from 2018)
- *Member* of the *Steering Committee of ECCV European Conf. on Computer Vision* (from 2012)
- *Member* of the *Executive Committee of ACM SIGMM Special Interest Group on Multimedia* (from 2016)
- *Member* of the *Steering Committee of ACM MM Int'l Conf. on Multimedia* (from 2012 to 2015)
- *Member* of the *Steering Committee of ACM ICMR Int'l Conf. on Multimedia Retrieval* (from 2011 to 2015)
- *Member* of the *Steering Committee of IEEE ICME Int'l Conf. on Multimedia and Expo* (from 2000 to 2005)
- *Member at Large* of *IEEE Publication Board* (from 1999 to 2001)
- *Member* of the *IAPR Governing Board* (from 1994 to 2000)
- *President* of the *IAPR Italian chapter* (from 1996 to 2000)

Roles in Journal Editorial Boards

Prof. Del Bimbo is the *Editor in Chief* of *ACM TOMM Transactions on Multimedia Computing, Communications and Applications* (from 2016)

He has served as *Associate Editor* of scientific journals in Multimedia and Computer Vision:

- *Multimedia Tools and Applications* (from 1998)
- *Pattern Analysis and Applications* (from 1999)
- *International Journal of Image and Video Processing* (from 2005)
- *IEEE Transactions on Pattern Analysis and Machine Intelligence*, (from 2001 to 2005)
- *IEEE Transactions on Multimedia*, (from 2001 to 2005)
- *Pattern Recognition*, (from 1995 to 2009)
- *Journal of Visual Languages and Computing* (from 1994 to 2018)

Roles in International Conferences

He served as a *General Chair* of international conferences in Computer Vision and Multimedia:

- *IAPR ICPR'20* Int'l Conf. on Pattern Recognition, – online – Milan, Italy (2021)
- *ACM ICMR'19 Int'l Conf on Multimedia Retrieval,* Ottawa, Canada (2019)
- *ECCV'12 European Conf. on Computer Vision,* Firenze, Italy (2012)
- *ACM ICMR'11 Int'l Conf. on Multimedia Retrieval,* Trento, Italy (2011)
- *ACM Multimedia'10 Int'l Conf. on Multimedia,* Firenze, Italy (2010)

- *ACM MIR'08 Int'l Conf. on Multimedia Information Retrieval,* Vancouver, Canada (2008)
- *IEEE ICMCS'99 Int'l Conf. on Multimedia Computing and Systems,* Firenze, Italy (1999)
- *IAPR ICIAP'97 Int'l Conf. on Image Analysis and Processing,* Firenze, Italy (1997)

He was also *Program Chair,* of International Scientific Conferences and Workshops. Among them:

- *IAPR ICPR'16 Int'l Conf. on Pattern Recognition,* Cancun, Mexico (2016)
- *IAPR ICPR'12 Int'l Conf. on Pattern Recognition,* Tsukuba, Japan (2012)
- *ACM M*ultimedia*'08 Int'l Conf. on Multimedia,* Vancouver, Canada (2008)
- *ACM CHI'08 Int'l Conf. on Computer Human Interaction*, Firenze, Italy (2008)
- *ACM CIVR'07 Int'l Conf. on Image-Video Retrieval*, Amsterdam, The Netherlands (2007)
- *IAPR ICPR'04 Int'l Conf. on Pattern Recognition*, Cambridge, United Kingdom (2004)
- *VISUAL'99 Int'l Conf. on Visual Information Systems,* Amsterdam, The Netherlands (1999)
- *IEEE ICMCS'98 Int'l Conf. on Multimedia Computing and Systems*, Austin, TX, USA (1998)

He was *Area/Track Chair, Invited Panelist* and gave *Invited Tutorials, Keynote Speeches* at many top scientific conferences in Computer Vision and Multimedia.

PROJECTS AND TECHNOLOGY TRANSFER

National and international projects

Prof. Del Bimbo has been the leader of national and international projects with societal impact. Among them:

- *AI4MEDIA. AI for Media, Society and Politics,* EC Horizon 2020 (2020-2024)
- *TINTAE. Theater, Artificial Intelligence and Economy,* Tuscany Regional Government, Italy (2020-2022)
- *I-MALL. Improving the Customer Experience in Mall Stores by Intelligent Computer Vision,* MIUR Ministry for University and Research, Italy (2020-2022)
- *MANTRA. Memory Augmented Networks for Multiple Trajectory Prediction in Automotive Contexts,* IMRA Europe company (AISIN group), France (2019-2020)
- *VIDEO ANALYTICS FOR SOCIAL HEALTH, AI for Monitoring People in COVID Times*, LEONARDO company, Italy (2020-2021)
- *IDEHA. AI innovation for Cultural Heritage,* MIUR Ministry for University and Research, Italy (2019-2021)
- *FREEWAY. Advanced Surveillance with Open World People Reidentification,* LEONARDO company, Italy (2018-2021)
- *SISTEMA DI MONITORAGGIO URV. AI and Computer Vision for Railway Surveillance and Safety* RFI Rete Ferroviaria Italiana, Italy (2018-2021)
- *IMAGACT. ICT-improved Medical Training,* Tuscany Regional Government, Italy (2018-2020)
- *E-SERVANT. Intelligent Services for Monitoring and Safety Control in Crowded Public Spaces,* QUID company, Italy (2017-2019)
- *UMETECH. AI for Cultural Heritage,* EC ERASMUS+ (2017-2019)
- *TESEO. Computer Vision for Sensorized Parking Areas,* NIVI group company, Italy (2016-2018)

- *CULTMEDIA*. *AI for Cultural Heritage*, MIUR Ministry for University and Research, Italy (2018-2019)
- *GANIMEDE*. *Intelligent Computer Vision for Surveillance*, LEONARDO company, Italy (2016-2018)
- *SMST. AI and Computer Vision for Museum and Smart Tourism,* MIUR Ministry for University and Research, Italy (2016-2022)
- *JANUS GLAIVE. Computer Vision for Face Recognition and People Tracking in Open World Setting,* IARPA National Agency, USA (2016-2018)
- *MNEMOSYNE. Personalized Experiences for Museum Visitors*, Tuscany Regional Government, Italy (2014-2017)
- *PITAGORA. Computer Vision Technologies for Airport Surveillance and Management,* THALES company, Italy (2012-2015)
- *ALIEN. Computer Vision for Tracking of Moving Targets in Long Video Sequences*, PANASONIC Research, Singapore (2012-2013)
- *EUTV. Video Digital libraries,* EC FP7 SME (2010-2012)
- *IM3I. Video Digital libraries,* EC FP7-SME (2008-2010)
- *VIDIVIDEO. Intelligent Content-based retrieval of Images and Video,* EC FP6-IST (2005-2008*)*
- *DELOS Network of Excellence*. *Computer Vision Research,* EC FP7 NoE (2003-2005)

Startups and patents

- Prof. Del Bimbo is the initiator of *SmallPixels*, academic spinoff approved by Università di Firenze (2020)
- Prof. Del Bimbo is one of the inventors of the international patent *n*. BBS144113EP, filed by IMRA Europe, France: "*Computer umplemented method for predicting multiple future trajectories of moving objects using memory augmented networks for trajectory prediction for autonomous vehicle applications*"

Alberto del Bimbo

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