

Marc Pollefeys

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Curriculum Vitae

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Education

1999 Ph.D. Electr. Eng. K.U.Leuven
1994 M.S. Electr. Eng. K.U.Leuven

Research interest

Computer vision, computer graphics, medical imaging, machine learning, robotics and augmented reality.

Professional experience

2018 - **Director Microsoft MR & AI Zurich lab**
2007 - **Full Professor, Computer Science Dept., ETH Zürich**
2016 - 2018 Director of Science, HoloLens, Microsoft
2009 - Adjunct Professor, Computer Science Dept., University of North Carolina – Chapel Hill
2007 Visiting Associate Professor, Computer Science Dept., Stanford University
2005 - 2009 Associate Professor, Computer Science Dept., University of North Carolina – Chapel Hill
2002 - 2005 Assistant Professor, Computer Science Dept., University of North Carolina – Chapel Hill
1999 - 2002 Post-doctoral researcher, Dept. of Electrical Engineering, K.U.Leuven
1994 - 1999 Research Assistant, Dept. of Electrical Engineering, K.U.Leuven

Awards

2020	ICRA best robot vision paper finalist	2019	3DV best paper award (hon.mention)
2019	WACV best paper (hon. mention)	2019	MRSS/PIA best paper award
2016	WACV best paper award	2015	RSS best system paper award finalist
2013/14/15	Google Research Award	2013	Prix de Boelpaepe
2012	IROS best paper finalist	2007	CVPR Best Demo Award
2012	IEEE Fellow	2005	Packard Fellowship
2011, 1999	DAGM prize (best paper award)	2003	NSF CAREER award
2011, 2010	Google Research Award	1999	BARCO Scientific Prize (for Ph.D. dissertation)
2008	ERC Starting Grant	1998	David Marr prize in Computer Vision (ICCV best paper)

Professional activities

Member editorial board (selected)

2009 - 2014 Encyclopedia of Computer Vision
2006 - 2014 International Journal on Computer Vision (IJCV)
2005 - 2009 Transactions on Pattern Analysis and Machine Intelligence (PAMI)
2003 - present Foundations and Trends in Computer Graphics and Computer Vision

Conference organizer

General Chair for Int. Conf. on Computer Vision (ICCV) 2019
General Chair for European Conf. on Computer Vision (ECCV) 2014
General Chair for Int. Conf. on 3D Data Imaging, Mod., Proc., Vis. and Transm. (3DIMPVT) 2012
Program Chair for IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) 2009
General/Program Chair for 3D Data Processing Visualization and Transmission (3DPVT) 2006

Conference Program Committee member (major conferences only)

Int. Conf. on Computer Vision (ICCV) 2003/05/07/09/11 (program board), 2013 (area chair), 2015/17, 2019 (general chair), 2021

Int. Conf. on Computer Vision and Pattern Recognition (CVPR) 2003/04/06/07/08, 2009 (program chair), 2010 (area chair), 2011, 2012/13 (area chair), 2015/17
European Conference on Computer Vision (ECCV) 2002/04/06 (area chair), 2008 (area chair), 2010, 2012 (area chair), 2014 (general chair), 2020 (area chair)
Siggraph 2011 (technical papers committee), Siggraph Asia 2008 (technical papers committee)
Int. Conf. on Robotics and Automation 2016 (Associate Editor)

Keynote/invited speaker (since 2016)

IEEE ICIR21, ECCV20 W. on 4D Vision, ECCV20 W. on ACVR, ECCV20 W. on Holistic3D, AI4AEC2020, World.Minds 2019, ICCV2019 W. on 3DRiW, GCPR19, ICIP18, 3DV18, KCCV18, Sensors & Expo 2018, CCCV17, WACV17, Embedded Vision Summit 2017, 3DV16, ICPR16, ACCV16

Teaching

- undergraduate: Linear Algebra (2009-2016), Visual Computing (2008-2016, 2018-now), Computer Organization (2004-2005), seminar on computer graphics and vision (2008-2016)
- graduate: Computer Vision (2010-2016, 2018-now), 3D Vision (2004/2007/2008/2011-2016, 2018-now), Computational Photography (2008-2010) . . .

Supervision

- Current postdocs: Lubor Ladicky, Martin Oswald, Viktor Larsson, Iro Armeni (with Prof. Daniel Hall), Daniel Barath
- Former postdocs: Prof. Zhaopeng Cui (Zhejiang U.), Prof. Torsten Sattler (Chalmers U./CTU), Vaggia Tsiminaki (IBM Research), Lisa Koch, Amael Delaunoy (Apple), Luca Ballan (Google), Jean-Charles Bazin (Apple), Kalin Kolev, Kevin Köser (GEOMAR), Prof. Friedrich Fraundorfer (TUGraz), Prof. Christopher Zach (Chalmers U), Roland Memisevic (20Bneurons), Prof. Gabriel Brostow (UCL/Niantic), Prof. Jean-Sebastien Franco (ENSIMAG/INRIA), Prof. Jan-Michael Frahm (UNC-Chapel Hill/FB), Prof. Philippos Mordohai (Stevens Institute)
- Current PhD students: Peidong Liu, Daniel Thul, Katarina Tóthová, Ian Cherabier, Mihai Dusmanu, Marcel Geppert, Taein Kwon, Zuoyue Li, Sandro Lombardi, Paul-Edouard Sarlin, Songyou Peng, Denys Rozumnyi, Silvan Weder, Luca Cavalli, Remi Pautrat, Cathrin Elich, Jonas Hein, Fangjinhua Wang.
- Graduated PhD students: Jingyu Yan, Prof. Seon Joo Kim (Yonsei University), Sudipta Sinha (Microsoft), Li Guan (WormpexAI), Changchang Wu (Waymo), Brian Clipp (Kitware), David Gallup (Waymo), Rahul Raguram (Apple), Roland Angst (ASUS), Georges Baatz (Google), Prof. Alexander Schwing (UIUC), Jens Puwein (VizRT), Prof. Gim Hee Lee (NUSingapore), Aparna Taneja (Google), Lionel Heng (DSO Singapore), Bernhard Zeisl (Google), Christian Haene (Google), Olivier Saurer (Astrivis), Petri Tanskanen (Astrivis), Lorenz Meier (Auterion), Dominik Honegger (Leica Geosystem), Federico Camposeco Paulsen (Facebook), Andrea Cohen (Facebook), Prof. Yagiz Aksoy (SFU), Nikolay Savinov (Deepmind), Johannes Schönberger (Microsoft), Pablo Speciale (Microsoft), Thomas Schoeps, Lukas Schneider (Daimler).

Projects and grants

Acquired significant competitive research funding from SNF, ERC, EU ICT, Innosuisse/CTI, IARPA, DARPA, NSF, DSO, Google, Microsoft, Nokia, HP, Qualcomm, Amazon, Leica/Hexagon, Toshiba, Yuneec, LiberoVision/VizRT and Novartis.

Publications

Over 300+ refereed publications (journals: 25+ @IJCV or IEEE PAMI, Conferences: 150+ @CVPR, ICCV or ECCV), h-index = 98, citations > 36k (Google Scholar).