

NIKOS KOMODAKIS

EDUCATION

- 2013 **Habilitation à Diriger des Recherches (HDR)**
Universite Paris-Est, France
Title: *Graphical Model Inference and Learning for Visual Computing*
Committee: John Tsitsiklis (MIT)
 Ramin Zabih (Cornell University)
 Christoph Schnoerr (Heidelberg University)
 Fredrik Kahl (Lund University)
 Jean-Christophe Pesquet (LIGM/University Paris-Est Marne-la-Vallee)
 Patrick Bouthemy (INRIA)
 Patrick Perez (Technicolor)
- 2006 **Ph.D. in Computer Science (with highest honors)**
Computer Science Department, University of Crete
Title: *Optimization Algorithms for Discrete Markov Random Fields, with Applications to Computer Vision*
- 1997 **Master in Computer Science**
Computer Science Department, University of Crete
- 1995 **Bachelor in Computer Science**
Computer Science Department, University of Crete

CURRENT AFFILIATIONS

- Assistant Professor
 Computer Science Department, University of Crete, Greece
- Associated Faculty Member
 Institute of Applied and Computational Mathematics, FORTH, Greece
- Senior Collaborating Researcher
 Archimedes Research Unit on AI, Athena RC, Greece

PREVIOUS POSITIONS

- Research Scientist at LIGM
 CNRS/ENPC/Univ. Paris-Est, France
- Associate Professor
 Ecole des Ponts ParisTech (ENPC), France
- Affiliated adjunct professor
 Ecole Normale Supérieure de Cachan
- Adjunct Professor
 University of Crete, Greece
- Post-Doctoral Researcher
 Ecole Centrale de Paris, France

ASSOCIATE EDITOR/EDITORIAL BOARD MEMBER

Computational Intelligence Journal

International Journal of Computer Vision

Computer Vision and Image Understanding Journal

GUEST EDITOR & EDITOR FOR SPECIAL ISSUES

“Graphical Models for Scene Understanding”, International Journal of Computer Vision (2014)

“Inference and Learning of Graphical Models: Theory and Applications in Computer Vision and Image Analysis”, Computer Vision and Image Understanding Journal (2014)

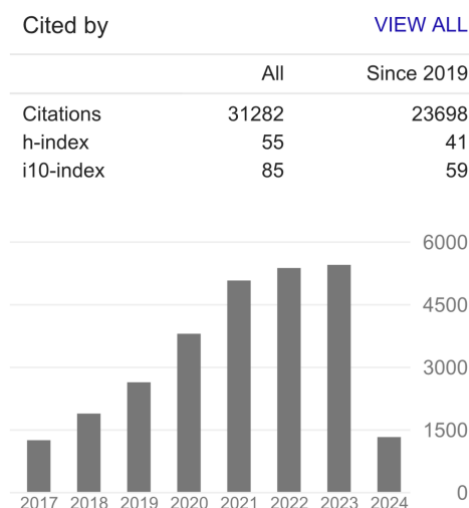
“Optimization for vision, graphics and medical imaging: Theory and applications”, Computer Vision and Image Understanding Journal (2011)

AREA CHAIR

- IEEE Conference on Computer Vision and Pattern Recognition 2023 (CVPR 2023)
- IEEE Conference on Computer Vision and Pattern Recognition 2022 (CVPR 2022)
- IEEE Conference on Computer Vision and Pattern Recognition 2021 (CVPR 2021)
- European Conference in Computer Vision 2020 (ECCV 2020)
- British Machine Vision Conference 2018 (BMVC 2019)
- International Conference on Computer Vision 2015 (ICCV 2019)
- British Machine Vision Conference 2018 (BMVC 2018)
- IEEE Conference on Computer Vision and Pattern Recognition 2018 (CVPR 2018)
- British Machine Vision Conference 2017 (BMVC 2017)
- IEEE Conference on Computer Vision and Pattern Recognition 2017 (CVPR 2017)
- IEEE Conference on Computer Vision and Pattern Recognition 2016 (CVPR 2016)
- International Conference on Computer Vision 2015 (ICCV 2015)
- 11th Asian Conference on Computer Vision 2012 (ACCV 2012)

RESEARCH IMPACT

✓ **Citations (Google Scholar)**



- ✓ **106 peer-reviewed publications** including:
 - **45 publications in the top-rank conferences** CVPR, ICCV, ECCV, ICLR, NIPS, IPMI, MICCAI
These are regarded as the most premium and selective peer-reviewed conferences in my fields of research with even lower acceptance rates than the top journals. For instance, CVPR, ICCV, ECCV, ICLR, NIPS are among the highest-ranked conferences for machine learning and artificial intelligence with impact factor rankings much higher even than the top-rank journals in the field
 - **30 journal publications in top-ranked journals**
This includes, for instance, journals such as the IEEE Trans. on Pattern Analysis and Machine Intelligence that is one of the highest-ranked journals for machine learning and artificial intelligence
 - **3 book chapters** (MIT press, Springer, Elsevier)
- ✓ **1 Book** (“Image Processing and Analysis” Kallipos, Open Academic Editions)
- ✓ **2 US Patents:** I have contributed in two software packages, one corresponding to an efficient, generic optimization method for graphical model inference and one for a deformable fusion algorithm for multi-modal 3D registration and fusion. They are used by several academic and clinical institutions world-wide for research purposes. They have been patented (2 US patents) and licensed to 2 medical imaging software companies and currently sold as a product in several sites for clinical practice
- ✓ **Prizes, awards, distinctions**
 - **World’s Top 2% Scientists List** (<https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/6>)
 - **Top 15 Greek Computer Scientists List** (<https://research.com/scientists-rankings/computer-science/gr>)
 - **Machine Unlearning Challenge Award** at NeurIPS 2023
 - **Best Poster Award** at IPMI 2023
 - **Best Paper Award** for IGARSS 2015
 - **Honorable Mention Paper Prize** at EarthVision 2015 (CVPR 2015)
 - **Best Paper Award** at the 2010 IEEE International Symposium on Biomedical Imaging (ISBI 2010)
 - **Francois Erbsmann Prize** at the 20th International Conference on Information Processing in Medical Imaging, 2007 (IPMI 2007)

TEACHING

- *Digital Image Processing*
Computer Science Department, University of Crete
- *Linear Algebra*
Computer Science Department, University of Crete
- *Neural Networks and Learning of Hierarchical Representations*
Computer Science Department, University of Crete
- *Optimization Methods*
Computer Science Department, University of Crete
- *Discrete Optimization for Vision and Learning*
Master program “Mathematics, Vision and Learning”
Department of Mathematics, École Normale Supérieure de Cachan
- *Data Processing and Artificial Vision*
Computer Science and Applied Mathematics Department, Ecole des Ponts ParisTech
- *Discrete Optimization Methods in Computer Vision*
Computer Science Department, University of Crete
- *Digital Image Processing: Basics, Challenges and Perspectives*
Applied Mathematics Department, Ecole Centrale de Paris