

Cordelia Schmid – Curriculum Vitae

Inria Grenoble Rhône-Alpes, THOTH team, LJK lab
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Education

- Habilitation, Computer Science, Institut National Polytechnique de Grenoble, November 2001. Dissertation: From image matching to learning visual models.
- PhD, Computer Science, Institut National Polytechnique de Grenoble, July 1996. Dissertation: Image matching and retrieval based on local greyvalue invariants, with distinction “Mention très honorable avec félicitations”. Advisor: Roger Mohr.
- M.S., Computer Science, University of Karlsruhe, July 1992, with distinction “sehr gut”.

Awards and distinctions

- Member of the German National Academy of Sciences, Leopoldina, 2017.
- Grand Prix Inria - Académie des sciences, 2016.
- Humbolt research award, Alexander von Humbolt Foundation, Germany, 2015.
- Karen Spärck Jones lecture, annual event of the British Computer Society that honours women in computing research, 2015.
- Thomson Reuters Highly Cited Researcher, 2014, 2015 & 2016.
- Longuet-Higgins prize for fundamental contributions in computer vision that have withstood the test of time, 2006, 2014 & 2016.
- ERC advanced grant ALLEGRO, 2013.
- IEEE Fellow, 2012.
- Best paper award for the 2009 edition of the Pattern Recognition journal.
- Best poster prize, honorable mention, IEEE Conf. on Computer Vision and Pattern Recognition, 2008.
- Best paper award, honorable mention, Indian Conference on Computer Vision, Graphics and Image Processing, 2006.
- Best paper award, ISPRS Conf. on Automatic Extraction of GIS Objects from Digital Imagery, 1999.
- Best thesis award Institut National Polytechnique de Grenoble, 1997.

Challenges and Competitions

- Winner of VOT-TIR 2015 tracking competition.
- Winner of Thumos 2014 action localization challenge.
- Winner of Thumos 2013 action classification challenge.
- Winner of TRECVID 2012 & 2013 multi-media event detection competition.
- Winner of TRECVID 2008 video copy detection competition.
- Winner of PASCAL Visual Object Classes Challenge Competitions, 2005–08, 10 & 11.

Employment

- Research Director, Inria, second class 2004 - 2008, first class 2008 - 2015, exceptional class 2016—.
- Head of the THOTH Inria team, 2016—.
- Head of the LEAR Inria team, 2003 - 2015.
- Research Scientist, Inria, 1997 - 2004.
- Research Assistant, Oxford University, Robotics Research Group, 1996 - 1997.
- Ph.D. Fellowship, Marie Curie EU grant and Inria grant, 1993 - 1996.

Professional activities

Editor-in-Chief: • International Journal of Computer Vision (2013—).

Editorial Board: • Foundations and Trends in Computer Graphics and Vision (2005—).
 • International Journal of Computer Vision (2004–2012).
 • IEEE Trans. on Pattern Analysis and Machine Intelligence (2001–2005).

General Chair: • European Conference on Computer Vision, 2020.
 • IEEE Conference on Computer Vision and Pattern Recognition, 2015.

Program Chair: • European Conference on Computer, 2012.
 • IEEE Conference on Computer Vision and Pattern Recognition, 2005.

- Workshop Chair:
- Workshop on Frontiers of Video Technology, San Jose, 2017.
 - ALLEGRO Workshop on Weakly Supervised Learning and Video Recognition, Grenoble, 2014 & 2015.
 - IPAM Workshop on Large Scale Multimedia Search, Los Angeles, US, 2012.
 - CVPR'09 Workshop on Feature Detectors and Descriptors, 2009.
 - Int. Workshop on Video, Barcelona, Spain, 2009.
 - 4th Int. Workshop on Object Recognition, Como, Italy, 2008.
 - 3rd Int. Workshop on Object Recognition, Siracusa, Italy, 2006.
 - 2nd Int. Workshop on Object Recognition, Taormina, Italy, 2004.
 - 1st Int. Workshop on Object Recognition, Taormina, Italy, 2003.
- Summer School Chair:
- Visual Recognition and Machine Learning Summer School, Paris, 2013.
 - Visual Recognition and Machine Learning Summer School, Grenoble, 2012.
 - Visual Recognition and Machine Learning Summer School, Paris, 2011.
 - Visual Recognition and Machine Learning Summer School, Grenoble, 2010.
- Area Chair:
- IEEE International Conf. on Computer Vision, 2003, 2005, 2009, 2013, 2015, 2017.
 - IEEE Conf. on Comp. Vision & Pattern Recog., 2000, 2004, 2007, 2010, 2013.
 - European Conference on Computer Vision, 2002, 2004, 2008, 2010, 2016.
 - Congrès de Reconnaissance de Formes et Intelligence Artif., 2004, 2008, 2010.
 - Asian Conference on Computer Vision, 2007.
 - Neural Information Processing Systems, 2005, 2006, 2012, 2017.
- Award committee:
- Oréal-UNESCO award France for Women in Sciences 2017.
 - Young researcher award 2014 & 2015
 - Longuet-Higgins award 2015.
 - Helmholtz award 1987–1999.
 - ECCV 2008 best paper prize.
 - NIPS 2006 best student paper.
- Supervision:
- 10 PhD students current; 24 PhD students graduated; two with awards: Longuet-Higgins award 2014 for K. Mikolajczyk & AFRIF PhD award 2014 for G. Cinbis.
 - 2 postdocs current; 16 postdocs past.
 - 1 engineer current; 11 engineers past.

- Teaching :
- Object recognition and computer vision, Master-2 MVA, ENS, 10 hours per year (equivalent 15hTD), 2008–2016.
 - Object recognition, Master-2 Computer Science, Grenoble University, 10 hours per year (equivalent 15hTD), 2001-04, 07-16.
 - Image databases, 3rd year ENSIMAG, 12 hours per year, 2002-03.
 - Object oriented software development, 2nd year ENSIMAG, 40 hours per year, 2001-03.
 - Analysis of algorithms, 2nd year ENSIMAG and ESISAR, 80 hours per year, 1998-01.
- Research evaluation:
- Member of a hiring committee at KTH, Stockholm, 2016.
 - Member of a hiring committee at MPI Intelligent Systems, 2016.
 - Member of a hiring committee at NTNU Trondheim, 2015.
 - Member of the evaluation panel for ERC starting grants, 2014.
 - Member of the PAMI-TC executive committee, 2014—.
 - Member of the PAMI-TC awards committee, 2013—.
 - Member of the “conseil d’AERES” (Agence d’évaluation de la recherche et de l’enseignement supérieur), 2007 - 2011.
 - Member of the evaluation committee for audiovisual and multimedia projects of Agence National de la Recherche (ANR), 2006 & 2007.
 - Reviewer for ERC grants, European projects, VENI (Netherlands), FACR (Québec), ANR (France), ANVAR (France), Israel Science Foundation, Austrian Science Fund, Vienna Science and Technology Fund, Czech Science Foundation.
 - Reviewer and examiner for 27 PhD and 8 HDR theses.
- Inria :
- Member of the “Comité scientifique”, Inria Grenoble, 2015—.
 - Scientific organization of the Inria evaluation for theme “Vision, Perception and Multimedia Interpretation”, 2014.
 - President of the Inria recruiting committee for Grenoble, 2009, 2010, 2013.
 - Member of the “bureau du comité de projet”, Inria Grenoble, 2007–2011.
 - Member of the “commission d’évaluation”, Inria, 2002–2011.
 - Member of 17 Inria recruiting committees (12 CR and 5 DR recruiting committees), 2002–2011.
 - Scientific organization of the Inria evaluation for theme “Cog B”, 2005.
 - Representative for international relations at Inria Grenoble, 2005–2007.
 - Member of the “commission emplois scientifiques” , Inria Grenoble, 2002–06.

Grants:

- Intel Network on Intelligent Systems Gift, 2017.
- Amazon Academic Research Award, 2017-2018.
- Facebook university gift, 2015-2020.
- Google Research Award, 2015–2016.
- ERC advanced grant ALLEGRO, 2013–2018.
- Research contract with Xerox, 2011-2013, 2014-2017.
- MSR-Inria project “Scientific image and video data mining”, 2008-13, 2014-2017.
- EU integrated project AXES, 2011–2014.
- Industrial contract with MBDA on pose and object identification, 2010-2013.
- QUAERO search engine, French Grant “OSEO”, 2008-13.
- “Géométrie algorithmique informationnelle et applications (GAIA)”, French Grant “ANR blanc”, 2007-11. **“Grand prix ANR du numérique”**.
- Prototype for an image search engine, French Grant “GRAVIT”, 2007-08.
- Inria associated team with CMU, UIUC and Willow/Inria, 2007-09.
- Industrial contract with MBDA on object recognition and detection, 2007-10.
- Cognitive-level annotation using latent statistical structure (CLASS), European Grant, 2006-09.
- Integrating knowledge, semantics and content for user-centered intelligent media services (aceMedia), European IP Grant, 2004-07.
- Pattern Analysis, Statistical Modeling and Computational Learning (PASCAL & PASCAL 2), “Network of Excellence”, European Grant, 2004-12.
- Modèles visuels et statistiques pour la reconnaissance de classes d’images, French Grant “ACI masse de données”, 2003-06.
- EADS postdoctoral grant on shape description, 2006.
- Industrial contract with MBDA on object detection and tracking, 2005-06.
- CNRS/UIUC Grant with Professor J. Ponce, 2000-06.
- Learning for Adaptable Visual Assistants (LAVA), EU IST Grant, 2002-05.
- Video Browsing, Exploration and Structuring (VIBES), European Grant, FET, 2000-04.
- Global Architecture for Indexing and Retrieval of Multimedia Documents (AGIR), French Grant, RNT, 1999-01.
- Industrial contract with Aérospatiale on matching of aerial images and missile images, 1999-01.
- Industrial contract with Alcatel on the development of a prototype for interactive video navigation, 1996-98.

Transfer :

- Patent, Z. Akata (25%), F. Perronnin (25%), Z. Harchaoui (25%), C. Schmid (25%), “Label-embedding view of attribute-based recognition”, filed 2013, published 2014. Transferred to Xerox.
- Patent, H. Jégou (70%), C. Schmid (20%). M. Douze (10%), “Dispositif d’aide à la reconnaissance d’image amélioré”, filed 2008, published 2011. Licensed to MilPix.
- Co-founder and scientific advisor of the Start-Up MilPix, 2008. Transfer of image search technology, including image description and large scale search software.
- Transfer of image classification software to the Start-Up WayWay, OMB Labs, 2014.
- Collaboration with the Aérospatiale section of MBDA, 2004-2013.
 - In-depth report on the state of the art in object recognition, 2004.
 - Transfer of image matching and point tracking software, 2005.
 - PhD of H. Harzallah on vehicle recognition, 2007-2010.
 - **Innovation prize of MBDA for the PhD of H. Harzallah, 2010.**
 - Research contract on object pose estimation, 2010-2013.
- Member of the scientific advisory board of IMRA-Europe, <http://www.imra-europe.com>, 2009-2013.
- Transfer of image retrieval and face recognition software to the Start-Up Adways, 2012.
- Transfer of face recognition software to the Start-Up Technosense, 2012.
- Transfer of product quantization software to Technicolor, 2011.
- Research license for image search software to Stanford University, San Diego University and California Institute of Technology, 2009.
- Transfer of image description software to KOLOR, 2009.

Software & Datasets :

- Software distributed for interest points detection and description, shape description, face and human detection, spatio-temporal features as well as large-scale image search and features aggregation, see <http://lear.inrialpes.fr/software>.
- Participation in producing several datasets for evaluating recognition algorithms, namely for image search, action recognition and recognition of shape-based object classes, see <http://lear.inrialpes.fr/data>.
- Demonstrator for our image search software. **Best demonstration award for the demonstration ”10 million images on my laptop” at RFIA 2010.**

Dissemination
& Mentoring:

- “Extraction d’informations à partir des images”, C. Schmid and J. Ponce. Les Big Data à Découvert. Editions du CNRS, 2017.
- Presentation on human action recognition in videos at the “Journées NeuroSTIC In’Tech 2016”, Grenoble, June 2016.
- Mentor for female PhD students at the workshop “Woman in Computer Vision”, in conjunction with CVPR’15.
- Mentor at the Doctoral Consortium, in conjunction with CVPR’16, ICCV’15, CVPR’14 & CVPR’10.
- Seminar for high school teachers on visual description and recognition, March 2013.
- “Automatic Recognition of Human Activities in Realistic Videos”, A. Gaidon, Z. Harchaoui and C. Schmid. ERCIM NEWS 95, October 2013.
- “De la reconnaissance de visages à l’interprétation de scènes complexes”, Françoise Breton and Cordelia Schmid. Article for the general public in “20 ans Inria Grenoble”, 2012.
- Panel member and mentor at the workshop “Women in Machine Learning”, in conjunction with NIPS’11.
- Presentation on large-scale image search at “Journée d’échanges et de formation”, LERTI, Inria, Grenoble, September 2010.
- Panelist on *Future Directions of Computer Vision* at IEEE CVPR 2008.
- Presentation of LEAR’s image search demonstrator at the 2003, 2005 and 2006 “Fête de la Science”, Grenoble and at the Forum 4i, Grenoble, 2006.
- Interviewed and filmed for *Computer Vision: Fact and Fiction*, a DVD produced by UC San Diego aimed at high school students and the general public, 2005, <http://vision.ucsd.edu/cvd>.
- Presentation on image search at the INTECH seminar “recherche par le contenu de documents multi-médias”, Grenoble, 2002.
- Presentation on invariant image description at the Inria-Industry seminar, Rocquencourt, 2001.
- Demonstration of the “interactive video” software, “journées Rencontres Inria-Industrie”, 1998.
- Demonstration of the image retrieval software, CEBIT’96.

Invited presentations

Invited conference and workshop presentations

- Invited speaker at Korean Conference on Computer Vision, Seoul, June 2017.
- Keynote speaker at Swedish Symposium on Deep Learning, Stockholm, June 2017.
- Invited speaker at Russian Summit “Machines Can See”, Moscow, June 2017.
- Invited speaker at Large-scale Computer Vision Workshop in conjunction with NISP’16, December 2016.
- Keynote speaker at IEEE International Conference on Image Processing, Phoenix, September 2016.
- Invited speaker at Robust Features Workshop in conjunction with CVPR’16, June 2016.
- Invited speaker at collège de France seminar (chair of Yann LeCun), Mars 2016.
- Invited speaker at the LIG (laboratoire d’informatique de Grenoble) keynote talks, February 2016.
- Invited speaker at the Scenes from Video Workshop, Santa Cruz, Chile, December 2015.
- Invited speaker at the Google Deep Video Workshop, Santa Cruz, USA, November 2015.
- Invited speaker at the Human Robot Interaction Workshop at UC Berkeley, November 2015.
- Invited speaker at workshop on pose recovery, action recognition, and cultural event recognition, in conjunction with CVPR’15, June 2015.
- Invited speaker at the ERC Workshop on Research Data Management and Sharing, September 2014.
- Keynote speaker at Annual Workshop of the Austrian Association for Pattern Recognition, IST Austria, May 2014.
- Keynote speaker at Netherlands Conference on Computer Vision, April 2014.
- Invited speaker at First French-German Mathematical Image Analysis Conference, Paris, January 2014.
- Keynote talk at The First International Workshop on Action Recognition with a Large Number of Classes, in conjunction with ICCV ’13, Sydney, Australia, December 2013.
- ICCV area chair meeting workshop, Oxford University, August 2013.
- Keynote speaker at 14th International Workshop on Image and Audio Analysis for Multimedia Interactive Services (WIAMIS), Paris, July 2013.
- Invited speaker at Second international workshop on visual analysis and geo-localization of large-scale imagery in conjunction with CVPR’13, June 2013.
- CVPR area chair meeting workshop, USC, February 2013.
- Keynote speaker at GdR ISIS, Le Touquet, November 2012.

- First international workshop on visual analysis and geo-localization of large-scale imagery in conjunction with ECCV'12, Florence, October 2012.
- Keynote speaker at the International Symposium on Visual Computing, Crete, July 2012.
- Keynote speaker at ACM International Conference on Multimedia Retrieval (ICMR), Hong Kong, June 2012.
- Workshop on Large Scale Multimedia Search, Los Angeles, January 2012.
- NIPS satellite WiML Workshop, Granada, December 2011.
- Symposium on Applied Perception in Graphics and Visualization, Toulouse, August 2011.
- Frontiers in Computer Vision Workshop, MIT, August 2011.
- Keynote speaker at Compression et représentation des signaux audiovisuels (Coresa 2010), Lyon, October 2010.
- Oxford vision workshop, July 2010.
- ECCV area chair colloquium, Paris, June 2010.
- CVPR area chair meeting workshop, University of Maryland, February 2010.
- International Workshop on Recent Trends in Computer Vision, Kyoto, Japan, June 2009.
- International Workshop on Video, Barcelona, Spain, May 2009.
- Keynote speaker at the Conference on Machine Vision Applications, Yokohama, Japan, May 2009.
- Keynote speaker at BMVC'08, Leeds, UK, September 2008.
- ECCV area chair symposium, Paris, June 2008.
- International Workshop on Computer Vision, Venice, Italy, May 2008.
- 4th International Workshop on Object Categorization, in conjunction with ICCV'07, Rio de Janeiro, Brazil, October 2007.
- MIRU International Workshop on Computer Vision, Hiroshima, Japan, July 2007.
- 2nd Beyond Patches Workshop in conjunction with CVPR'07, June 2007.
- Annual Workshop of the Austrian Association for Pattern Recognition (OEAGM'07), Schloss Krumbach, Austria, May 2007.
- CVPR area chair meeting workshop, Pittsburgh, USA, March 2007.
- LIAMA's 10th Anniversary Workshop, Beijing, China, January 2007.
- International Workshop on Object Recognition, Syracuse, Italy, September 2006.
- TAIMA 2005, Hammamet, Tunisia, September 2005.
- Empirical Inference Symposium, Tuebingen, August 2005.
- ICCV Area Chair Meeting Workshop, Leuven, June 2005.

- MSRI workshop on Visual Recognition, Berkeley, USA, March 2005.
- CVPR area chair meeting workshop, Los Angeles, February 2005.
- International Workshop on Object Recognition, Taormina, Sicily, Italy, October 2004.
- PASCAL Workshop on Pattern Recognition and Machine Learning, Grenoble, May 2004.
- Cognitive Computer Vision Colloquium, Prague, January 2004.
- International Workshop on Object Recognition, Taormina, Sicily, Italy, September 2003.
- Workshop on Computational Vision, Rosenon, Sweden, July 2003.
- The Learning Workshop, Snowbird, Utah, April 2003.
- The 4th Sino-Franco Workshop on Web Technologies, Taipei, Taiwan, March 2003.
- Workshop at the area chair meeting, Lund, February 2002.
- Dagstuhl-Seminar on Content-Based Image and Video Retrieval, Dagstuhl, January 2002.
- Inria statistics seminar, Rennes, November 2001.
- GDR-GT10 Indexation Multimedia, Paris, France, May 2001.
- The Learning Workshop, Snowbird, Utah, April 2001.
- Beckman Institute vision workshop, Urbana-Champaign, February 2000.

Tutorials and courses

- Tutorial on action recognition at the Winter School in Computer Vision, Jerusalem, January 2017.
- Course on action recognition at Computational Vision Summer School, Freudenstadt, Germany, July 2015.
- Tutorial on image search and classification at the Inria Visual Recognition and Machine Learning Summer School, Paris, July 2013.
- Tutorial on modern features at ECCV 2012, Florence, October 2012.
- Tutorial on image search and classification at the Inria Visual Recognition and Machine Learning Summer School, Grenoble, July 2012.
- Tutorial on image search and classification at the ENS-Inria Visual Recognition and Machine Learning Summer School, Paris, July 2011.
- Lecture on local features and large scale search at the 3e cycle romand d'informatique, Geneva, Switzerland, February 2011.
- Tutorial on image features, search and classification at the Winter Research School at ENS Lyon, January 2011.
- Tutorial on image search and classification at the Inria Visual Recognition and Machine Learning Summer School, Grenoble, July 2010.

- Tutorial on images features and object recognition, Lotus Hill Summer School on Computer Vision, Ezhou, China, July 2008.
- Tutorial on local features and recognition, International Summer School on Computer Vision, Acitrezza, Sicily, Italy, July 2007.
- Tutorial on invariant local features, AERFAI Summer School on Action and Object Classification Techniques in Digital Images, Granada, Spain, June 2006.
- Course on local descriptor and recognition, MIT, Boston, USA, December 2005.
- Course on local features and recognition, Oulu University, May 2005.
- Short-course on local features, IEEE Conference on Computer Vision and Pattern Recognition, June 2003.
- Tutorial on recognition and image retrieval, Summer School Vision and Robotics, Toulouse, July 2002.
- Tutorial on recognition and image retrieval, Summer School Vision and Robotics, Grenoble, July 2000.

Invited presentations at universities and companies

- Seminar at DeepMind, London, June 2017.
- Speaker at Distinguished Seminar Series in Computing, Imperial College, London, June 2017.
- Seminar at MPI, Tübingen, May 2017.
- Seminar at “10 ans de l’ERC à Inria”, Paris, Mars 2017.
- Seminar at Google, Montain View, July 2016.
- Seminar at “Journées scientifiques Inria”, June 2016.
- Seminar at Karlsruhe Technology Institute, June 2016.
- Seminar at MPI, Tübingen, April 2016.
- Seminar at INSA Lyon, April 2016.
- Seminar at New York University, January 2016.
- Seminar at Berkeley University, November 2015.
- Seminar at Stanford University, June 2015.
- Seminar at Google, Mountain View, June 2015.
- Seminar at Facebook AI Research lab, New York, May 2015.
- Seminar at CMU, Pittsburgh, May 2015.
- Seminar at Oxford University, March 2015.
- Seminar at Gatsby Computational Neuroscience Unit, London, March 2015.

- Seminar at MPI, Tübingen, February 2015.
- Seminar at Univ. Edinburgh, July 2014.
- Seminar at MPI, Tübingen, April 2014.
- Seminar at WILLOW retreat, Bandol, June 2013.
- Seminar at UCF, Orlando, May 2013.
- Seminar at MPI, Tübingen, January 2013.
- Seminar at University of Berkeley, December 2012.
- Seminar at New York University, May 2012.
- Seminar at Google, Zürich, May 2012.
- Seminar at ETHZ, Zürich, May 2012.
- Seminar at MSR Cambridge, April 2012.
- Seminar at MPI, Tübingen, April 2012.
- Colloquium J. Morgenstern, Sophia-Antipolis, December 2011.
- Seminar at New York University, July 2010.
- Seminar at Centre de Mathématiques et de Leurs Applications, Ecole Normale Supérieure de Cachan, Paris, April 2010.
- Seminar at CMU, Pittsburgh, September 2009.
- Seminar at University of Texas at Austin, April 2009.
- Seminar at Oxford University, March 2009.
- Seminar at UCL, London, March 2009.
- Seminar at ETHZ, Zürich, February 2009.
- Seminar at Max Planck Institut Saarbrücken, Germany, September 2008.
- Seminar at TU München, Germany, July 2008.
- Seminar at LIAMA, Beijing, China, July 2008.
- Seminar at the Advanced Computer Vision Company, Vienna, Austria, May 2007.
- Seminar at ENS Ulm, Paris, France, October 2006.
- Seminar at Carnegie Mellon University, Pittsburgh, August 2006.
- Seminar at Microsoft Research, Seattle, August 2006.
- Seminar at Xerox, Grenoble, June 2006.
- Seminar at ETH Zurich, April 2006.
- Seminar at UIUC, Champaign, February 2006.

- Seminar at ENS Ulm, Paris, France, October 2005.
- Seminar at University of Liege, Belgium, February 2005.
- Seminar at University of Illinois, Urbana-Champaign, January 2005.
- Seminar at Max Planck Institut Tuebingen, Germany, December 2004.
- Vision Seminar at Berkeley University, April 2004.
- Presentation at Toyota, Tokyo, Japan, May 2003.
- Vision Seminar at University of Illinois, Urbana-Champaign, October 2002.
- Vision Seminar at University of Illinois, Urbana-Champaign, October 2001.
- Vision Seminar at Berkeley University, USA, January 2000.
- Microsoft Research Labs, Redmond, Washington, March 1999.

Publications

The two main journals of computer vision are the International Journal on Computer Vision (IJCV) and the IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI) with acceptance rates below 30%. The three main conferences are the IEEE International Conference on Computer Vision (ICCV), the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) and the European Conference on Computer Vision (ECCV). These three conferences are very selective—in general less than 25% of the articles submitted are accepted—and their proceedings play a role which is as important as international journals.

According to Google Scholar my h-index is 95 and the total number of citations for my publications is more than 72 000. Most of my papers are available on the THOTH publication server at <http://thoth.inrialpes.fr/pubs>.

Journal articles

1. G. Varol, I. Laptev, C. Schmid. Long-term convolutions for action recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, to appear.
2. M. Paulin, J. Mairal, M. Douze, Z. Harchaoui, F. Perronnin and C. Schmid. Convolutional patch representations for image retrieval: an unsupervised approach. *International Journal of Computer Vision*, 121(1):149-168, 2017
3. G. Sharma, F. Jurie and C. Schmid. Expanded parts model for semantic description of humans in still images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 39(1):87-101, 2017.
4. G. Cinbis, J. Verbeek and C. Schmid. Weakly supervised object localization with multi-fold multiple instance learning. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 39(1):189-203, 2017.
5. J. Revaud, P. Weinzaepfel, Z. Harchaoui and C. Schmid. DeepMatching: Hierarchical deformable dense matching. *International Journal of Computer Vision*, 120(1):300-323, 2016.
6. V. Kalogeiton, V. Ferrari and C. Schmid. Analysing domain shift factors between videos and images for object detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(11):2327-2334, 2016.
7. M. Douze, J. Revaud, J. Verbeek, H. Jegou, C. Schmid. Circulant temporal encoding for video retrieval and temporal alignment. *International Journal of Computer Vision*, 119(3):291-306, 2016.
8. Z. Akata, F. Perronnin, Z. Harchaoui and C. Schmid. Label-embedding for image classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(7):1425-1438, 2016.
9. G. Cinbis, J. Verbeek and C. Schmid. Approximate Fisher kernels of non-iid image models for image categorization. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(6):1084-1098, 2016.
10. H. Wang, D. Oneata, J. Verbeek and C. Schmid. A robust and efficient video representation for action recognition. *International Journal of Computer Vision*, 119(3):219-238, 2016.
11. A. Gaidon, Z. Harchaoui and C. Schmid. Activity representation with motion hierarchies. *International Journal of Computer Vision*, 107(3):219-238, 2014.

12. Z. Akata, F. Perronnin, Z. Harchaoui and C. Schmid. Good practice in large-scale learning for image classification. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 36(3):507-520, 2014.
13. H. Wang, A. Kläser, C. Schmid and C.-L. Liu. Dense trajectories and motion boundary descriptors for action recognition. *International Journal of Computer Vision*, 103(1):60-79, 2013.
14. A. Gaidon, Z. Harchaoui and C. Schmid. Temporal localization of actions with actoms. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 35(11):2782-2795, 2013.
15. A. Prest, V. Ferrari and C. Schmid. Explicit modeling of human-object interactions in realistic videos. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 35(4):835-848, 2013.
16. A. Prest, C. Schmid and V. Ferrari. Weakly supervised learning of interactions between humans and objects. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 34(3):601-614, 2012.
17. H. Jegou, F. Perronnin, M. Douze, J. Sanchez, P. Perez and C. Schmid. Aggregating local image descriptors into compact codes. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 34(9):1704 - 1716, 2012.
18. M. Guillaumin, T. Mensink, J. Verbeek, C. Schmid. Face recognition from caption-based supervision. *International Journal of Computer Vision*, 96 (1):64-82, 2012.
19. M. Marszalek and C. Schmid. Accurate Object Recognition with Shape Masks. *International Journal of Computer Vision*, 97(2):191-209, 2012.
20. H. Jegou, M. Douze and C. Schmid. Product quantization for nearest neighbor search. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 33(1):117-128, 2011.
21. H. Jegou, M. Douze and C. Schmid. Improving bag-of-features for large scale image search. *International Journal of Computer Vision*, 87(3):316-336, 2010.
22. M. Douze, H. Jegou and C. Schmid. An image-based approach to video copy detection with spatiotemporal post-filtering. *IEEE Transactions on Multimedia*, 12(4):257-266, 2010.
23. V. Ferrari, F. Jurie and C. Schmid. From images to shape models for object detection. *International Journal of Computer Vision*, 87(3):284-303, 2010.
24. H. Jegou, C. Schmid, H. Harzallah and J. Verbeek. Accurate image search using the contextual dissimilarity measure. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 32(1):2-11, 2010.
25. M. Heikkila, M. Pietikainen and C. Schmid. Description of interest regions with local binary patterns. *Pattern Recognition*, 42(3):425-436, 2009.
26. J. van de Weijer, C. Schmid, J. Verbeek and D. Larlus. Learning color names for real world applications. *IEEE Transactions on Image Processing*, 18(7):1512-1523, 2009.
27. P. Carbonetto, G. Dorko, C. Schmid, H. Kueck and N. de Freitas. Learning to recognize objects with little supervision. *International Journal of Computer Vision*, 77(1):219-238, 2008.

28. V. Ferrari, L. Fevrier, F. Jurie and C. Schmid. Groups of adjacent contour segments for object detection. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 30(1):36-51, 2008.
29. C. Bouveyron, S. Girard and C. Schmid. High-dimensional data clustering. *Computational Statistics and Data Analysis*, 52(1):502-519, 2007.
30. J. Zhang, M. Marszalek, S. Lazebnik and C. Schmid. Local features and kernels for classification of texture and object categories: a comprehensive study. *International Journal of Computer Vision*, 73(2):213-238, 2007.
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