

## CURRICULUM VITAE

### **CRISTIAN SMINCHISESCU: ACADEMIC BACKGROUND**

**Habilitation (HdR)**, University of Bonn, Germany May 2008

Faculty of Mathematics and Natural Science, Thesis: Learning and Inference Algorithms for Monocular Perception. Automatic equivalence nr. 82676/3/15.01.2014.I.I. to supervise doctoral students by the Romanian Min. of Research and Ed., *Computer science and information technology*.

**Postdoctorate**, Department of Computer Science, AI Lab, University of Toronto, Canada 2003 - 04

**Doctorate** in Imaging, Vision and Robotics, INRIA, France 1999 - 2002

Applied Mathematics and Computer Science Doctoral School (ENS-IMAG).

Thesis: Estimation Algorithms for Ambiguous Visual Models

Mention: *Très Honorable avec les Félicitations du Jury* (top 5% thesis, by unanimous jury decision). Jury: M. Black, A. Blake, R. Hartley, R. Mohr, L. Quan, W. Triggs (advisor).

### **PROFESSIONAL ACTIVITIES**

Associate Editor, IEEE Transactions on Pattern Analysis and Machine Intelligence 2010 – present

Program Chair, European Conference on Computer Vision (ECCV) 2018

Area Chair, European Conference on Computer Vision (ECCV) 2016

Area Chair, International Conference for Computer Vision (ICCV, CVPR) 2007, 2011, 2013, 2015

Reviewer/ Panelist for Science Foundations: Swiss (2016), Dutch, Luxembourg (2015), French

(ANR) (2013, 2014), German, Romanian, European (ERA-NET) (2011– 15), National Science

Foundation (NSF), USA (2006-08), Nat. Science and Research Council of Canada (NSERC) (2005)

### **AFFILIATIONS INCLUDING PRIOR, STATUS AND VISITING**

Senior Scientist (CSI=Professor), Institute of Mathematics of Romanian Academy 2009 – present

Head of the Computational Learning and Visual Perception Group, [www.imar.ro/clvp](http://www.imar.ro/clvp)

Professor, Department of Computer Science, University of Toronto, Canada June 2009 – present

Professor, Lund University, Sweden November 2012 – present

Faculty, Visiting Professor, University of Bonn, Germany 2006 – 2011

Visiting Professor, Rutgers University, USA 2007 – 2009

Assistant Professor, Toyota Technological Institute, University of Chicago, USA 2005 – 2007

### **PRIZES AND AWARDS**

-Winner (with D. Banica), Reconstruction Meets Recognition Challenge (RMRC) 2013, 2014

-Winner (with J. Carreira, F. Li), Visual Object Segmentation & Labelling Challenge 2009-12 (4ed)

- DAGM German Assoc. for Pattern Recognition Paper Prize (with C. Ionescu and F. Li) 2010

Random Fourier approximations for skewed multiplicative histogram kernels

- EIFFEL Excellence Fellowship, French Ministry of Foreign Affairs 1999 – 2002

## **CRISTIAN SMINCHISESCU**

### **1. Publications**

**Publication record:** Monographs (1); Chapters in books (2); International Peer-reviewed Journal Papers (19); International Peer-reviewed Class A Conference Papers (59, out of which 15 oral presentations); Patents pending (1); Ref. Intl. Workshops (11); Ref. Ext. Abs. (2); Tech. Reports (16).

**Citations (Scholar): 7800; h-index: 43**

### **PUBLICATIONS**

**Note:** *Competitive international peer-reviewed conferences are, besides journals, key publication venues in computer vision and machine learning. The top 7 computer vision and machine learning conferences (ICCV, ECCV, CVPR, NIPS) are highly competitive with low acceptance rates of <28% and CiteSeer impact factor rankings in the top 5- 7%, of all computer science journals and conferences. Most citations are not captured in ISI, but in Scholar.*

#### **Representative Publications 2006-present**

1. **C. Sminchisescu**, A. Kanaujia, D. Metaxas: Conditional Models for Contextual Human Motion Recognition, *Computer Vision and Image Understanding*, 2006 (143c), based on earlier: Conditional Models for Human Motion Recognition, International Conference on Computer Vision (ICCV), 2005
2. **C. Sminchisescu**, A. Kanaujia, D. Metaxas: BM<sup>3</sup>E : Discriminative Density Propagation for Visual Tracking, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2007 (77c), based on earlier: Discriminative Density Propagation for Human Motion Estimation, IEEE International Conf. on Computer Vision and Pattern Recognition (CVPR), 2005
3. L. Bo and **C. Sminchisescu**: Twin Gaussian Processes for Structured Prediction, *International Journal of Computer Vision*, 2010.
4. L. Bo and **C. Sminchisescu**: Efficient Match Kernel between Sets of Features for Visual Recognition, *Neural Information Processing Systems (NIPS)*, 2009
5. F. Li, J. Carreira, **C. Sminchisescu**: Object Recognition by Sequential Figure-Ground Ranking, *International Journal of Computer Vision*, 2011, based on earlier: Object Recognition as Ranking Holistic Figure-Ground Hypotheses, IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) 2010
6. J. Carreira and **C. Sminchisescu**: CPMC: Constrained Parametric Min-Cuts for Automatic Object Segmentation, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2012 (250c), based on: Automatic Image Segmentation with Constrained Parametric Min-Cuts, IEEE International Conf. on Computer Vision and Pattern Recognition (CVPR), 2010
7. M. Leordeanu, R. Sukthankar, **C. Sminchisescu**: Generalized boundaries from multiple image interpretations, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2014 (13c), based

on: Efficient closed-form solution to generalized boundary detection, European Conference on Computer Vision (ECCV), 2012

8. J. Carreira, R. Caseiro, J. Batista, **C. Sminchisescu**: Free-form region description with second-order pooling, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2015 (16c), based on: Semantic Segmentation with Second-order Pooling, European Conference on Computer Vision (ECCV), 2012

9. C. Ionescu, D. Papava, V. Olaru, **C. Sminchisescu**: Human3.6M: Large scale datasets and predictive methods for 3d human sensing in natural environments, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2015.

10. S. Mathe and **C. Sminchisescu**: Actions in the Eye: Dynamic Gaze Datasets and Learnt Saliency Models for Visual Recognition, *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 2015, based on: Dynamic Eye Movement Datasets and Learnt Saliency Models for Visual Action Recognition, European Conf. on Computer Vision (ECCV), 2012

## **2. Book Chapters**

1. **C. Sminchisescu**, L. Bo, C. Ionescu, and A. Kanaujia: Feature-based Human Pose Estimation, Chapter in Looking at People, Moeslund, Sigal, Kruger, Hilton Eds., Springer-Verlag, 2011.

2. **C. Sminchisescu**: 3D Human Motion Reconstruction in Monocular Video – Techniques and Challenges, Chapter in Human Motion Understanding, Modeling, Capture and Animation, Rosenhahn, Kleete and Metaxas Eds., Springer-Verlag, 2007