

Contact

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Appointments

10/2017 - present	Associate Professor	UCL, Dept. of Computer Science
11/2018 - present	Co-founder and CEO	Ariel AI
12/2016 - 10/2018	Research Scientist	Facebook AI Research
10/2016 - 10/2017	Lecturer	UCL, Dept. of Computer Science
10/2014 - 9/2016	Associate Professor	ECP, Dept. of Applied Mathematics
9/2008 - 9/2014	Assistant Professor	ECP, Dept. of Applied Mathematics
9/2008 - 9/2016	Affiliate Researcher	INRIA-Saclay, Galen Group
6/2006 - 8/2008	Postdoctoral Researcher	UCLA, Dept. of Statistics

Education

Habilitation à Diriger des Recherches (HDR), Computer Science, 2013
Université Paris-Est.
HDR Dissertation: “Learning and Optimization for Shape-based representations.”
Ph.D., Electrical and Computer Engineering, 2006
National Technical University of Athens.
Ph.D. Dissertation: “Synergy between Image Segmentation and Object Recognition using Geometrical and Statistical Computer Vision Techniques.”
M. Eng. Diploma, Electrical and Computer Engineering, 2001
National Technical University of Athens.
M. Eng. Thesis: “Modeling and Prediction of Speech Signals using Chaotic Time-Series Analysis Techniques.”

Curriculum Development**Introduction to Supervised Learning (2016-)**

Master level course, 10 lectures - 30 teaching hours, attended by 120 students.
The course provides an introduction to Machine Learning and focuses on discriminatively trained models including Linear Regression, Logistic Regression, Adaboost, Support Vector Machines, Neural Networks and Deep Learning.

Introduction to Deep Learning (2014-2016) Master Level course, 8 lectures - 24 teaching hours, attended by 100-120 students

The course covers the principles of learning algorithms for deep, multi-layered classifier architectures (Deep Networks). We address both the Unsupervised and Discriminative

Training of Deep Convolutional Networks, Parameter Estimation in Graphical Models using Maximum Entropy, Sampling Algorithms, as well as deep architectures adapted to Computer Vision tasks, such as Object Detection.

Machine Learning for Computer Vision (2008-2016)

Master level course, 8 lectures - 24 teaching hours, attended by 60-70 students.

The course covers discriminative (Logistic Regression, Adaboost, Support Vector Machines, Multiple Instance Learning) and generative models (Mixture Models and Expectation-Maximization, Linear Models, Hidden Markov Models, Markov Random Fields) for vision, with an emphasis on structured models.

Introduction to Signal Processing (2009-2015)

7th semester course, 11 lectures - 22 teaching hours, attended by 35-45 students.

The course covers standard concepts from signals and systems (Frequency-domain analysis of Signals and Systems, Modulation and Gabor filters, Sampling, the Discrete-Time Fourier Transform, the Z-transform, the Fast Fourier Transform) and elements of random signals (Autoregressive-Moving Average Processes, Wiener and Kalman filtering).

Introduction to Computer Vision (2009-2013)

8th semester course, 11 lectures - 22 teaching hours, attended by 20-30 students.

The course covers techniques for image analysis (Filterbanks, Scale-Space and Partial Differential Equations), energy minimization (Calculus of Variations and Curve Evolution, Markov Random Fields), and category modeling (Active Appearance Models, Deformable Part Models/Graphical Models, Bag-of-Words models) with applications in denoising, image segmentation, motion estimation, object detection and tracking.

PhD Students

Supervised

Haithem Boussaid, École Centrale Paris (2010-2014)

Co-advised with Nikos Paragios.

Topic: Learning deformable models for medical image analysis

Stavros Tsogkas, École Centrale Paris (2011-2015)

Topic: Shape-based optimization for object category detection.

Siddhartha Chandra, École Centrale Paris (2014-2018)

Co-advised with Pawan Kumar.

Topic: Efficient learning and optimization for 3D visual data.

Stefan Kinauer, École Centrale Paris (2014-2018)

Topic: Surface-based representations for high-level vision.

Riza Alp Guler, École Centrale Paris (2015-)

Topic: Learning-based models for surface analysis.

Zbigniew Wojna, University College London (2016-)

Co-advised with John Shawe-Taylor.

Topic: Advancing Deep Learning Techniques for Machine Vision.

Cristina Calnegru, University College London (2016-)

Co-advised with John Shawe-Taylor.

Stefano Bloomberg, University College London (2017-)

Advisor: Daniel Alexander.

Topic: Deep Learning for Efficient Medical Imaging.

Eleni Chiou, University College London (2017-)

Co-advised with Laura Panagiotaki.

Topic: Deep Learning for DW-MRI Understanding.

Edward Bartrum, University College London (2018-)

Topic: Attention and Deep Learning.

Eric Tuan-Le, University College London (2018-)

Co-advised with Niloy Mitra.

Topic: Geometry and Deep Learning.

External

Pierre-Andre Savalle, École Centrale Paris (2014)

Advisors: Gilles Fay and Nicolas Vayatis.

Topic: Deep Learning for Object Detection.

Olivier Teboul, École Centrale Paris (2008-2011)

Advisor: Nikos Paragios.

Topic: Reinforcement learning-based parsing of building facades with shape grammars.

Eduard Trulls, Universitat Polytechnica de Catalonia (2012-2015)

Advisors: Francesc Moreno and Alberto Sanfeliu.

Topic: Dense segmentation-aware descriptors for matching and recognition.

Michalis Raptis, University of California at Los Angeles (2009-2011)

Advisor: Stefano Soatto.

Topic: Mid-level video models for action recognition and localization.

PhD Thesis Committees

Anastasios Roussos, National Technical University of Athens (2010)

Topic: Nonlinear Diffusion in Computer Vision and Statistical Shape Models, with Applications in Image Analysis of Articulators of Voiced and Signed Speech.

Olivier Teboul, Ecole Centrale Paris (2011)

Topic: Shape Grammar Parsing: Application to Image-based Modeling.

Nikolaos Dimitriou, Aristotle University of Thessaloniki (2014)

Topic: Video Segmentation using Point Trajectories.

Mateusz Kozinski, Ecole des Ponts ParisTech (2015)

Topic: Segmentation of Facade Images with Shape Priors (thesis reviewer).

Varun Jampani, Max Planck Institute (2017)

Topic: Learning Inference Models for Computer Vision (thesis reviewer).

Raghudeep Gadde, Ecole des Ponts ParisTech (2017)

Topic: Semantic Segmentation of Highly Structured and Weakly Structured Images.

Youssef Tamaazousti, University of Paris-Saclay (2018)

Topic: On the Universality of Visual and Multimodal Representations.

Pavel Tokmakov, INRIA (2018)

Topic: Learning from Motion (thesis reviewer).

Sergey Zagoryuko, ENPC (2018)

Topic: Weight parameterizations in deep neural networks (thesis reviewer).

Tian F. Vu, INRIA (2018)

Topic: Learning visual models for person detection and action prediction (thesis reviewer).

James Thewlis, University of Oxford (2018)

Topic: Objects from Motion.

Aaron Chadha, UCL (2018)

Topic: From Pixels to Spikes: Efficient Multimodal Learning in the Presence of Domain Shift.

Research Grants

FP7 H2020 Project I-SUPPORT (2015-2018)

ICT-Supported bath robots

Joint research project with ROBOTNIK (Spain), SSSA (Italy), Bethenien (Germany), NTUA (Greece)

Our goal is to use 3D human pose estimation in a service robotics system aimed at assisting the elderly in bathing activities.

Funding: 250K Euros for INRIA, 3.300K Euros total.

FP7 ICT-9 Project RECONFIG (2013-2016)

Cognitive, Decentralized Coordination of Heterogeneous Multi-Robot Systems via Reconfigurable Task Planning

Joint research project with KTH (Sweden), U. Aalto (Finland), NTUA (Greece)

Our goal is to use 3D object understanding and localization as a medium for multi-agent coordination and collaboration.

Funding: 400K Euros for ECP, 2.300K Euros total.

FP7 ICT-9 Project MOBOT (2013-2016)

Intelligent Active MObility Assistance RoBOT integrating Multimodal Sensory Processing, Proactive Autonomy and Adaptive Interaction.

Joint research project with TU Munich, U. Heidelberg (Germany), Accrea (Poland), NTUA-ICCS, ILSP (Greece)

Our goal is to equip robotic walking assistants with 3D pose estimation and action recognition capabilities to enable the proactive assistance of elderly users with walking disabilities.

Funding: 300K Euros for INRIA, 3.100K Euros total.

ANR-JCJC HiCoRe (2010-2014)

Hierarchical COmpositional REpresentation for computer vision.

Young Researcher Award of the French National Research Foundation

Our goal is to develop computational mechanisms for inference and learning in hierarchical, shape-based object representations. Funding: 180K Euros for ECP

Equipment Grant from NVIDIA Corp., 2014

Two Nvidia Tesla K-40 Graphics cards (12K Euros) for research in Deep Learning.

Academic Service

Associate Editor

Image and Video Computing Journal (2011-2016)

Computer Vision and Image Understanding (2015-2016)

Guest Editor

Computer Vision and Image Understanding, Special Issue on Deep Learning in Computer Vision, 2016.

Computer Vision and Image Understanding, Special Issue on Generative Models in Computer Vision, 2014.

Area Chair

European Conference on Computer Vision (ECCV), 2018.

IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2018.

International Conference on Computer Vision (ICCV), 2017.

British Machine Vision Conference (BMVC), 2017

European Conference on Computer Vision (ECCV), 2016.

Asian Conference on Computer Vision (ACCV), 2016.

IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2016.

IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2015.

IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2012.

Program Chair

Video Segmentation Workshop, in conjunction with ECCV, 2018. IEEE Workshop on Perceptual Organization in Computer Vision (POCV), 2012.

Workshop Chair

European Signal Processing Conference (EUSIPCO), 2017.

Tutorial Co-Organizer

Deep Learning for Geometry, Eurographics 2018.

From Statistical Signal Processing to Probabilistic Deep Learning, ICCV 2015.

SPIL- Search and Planning for Inference and Learning, CVPR 2015.

BASIS- BAses for Surface and Image Analysis, CVPR 2014.

Journal Reviewer

International Journal of Computer Vision (2009-).

IEEE Transactions on Pattern Analysis and Machine Intelligence (2006-).

IEEE Transactions on Image Processing (2006-).

IEEE Transactions on Systems, Man and Cybernetics, B (2011).

IEEE Transactions on Neural Networks (2010).

Computer Vision and Image Understanding (2008-).

Image and Video Computing Journal (2010).

Computer Speech and Language (2009).

EURASIP Journal of Image and Video Processing (2012).

Machine Vision and Applications (2013).

Program Committee

Int'l. Conf. on Computer Vision (ICCV) 2007, 2009, 2011, 2013, 2015, 2019.

IEEE Conf. on Computer Vision and Pattern Recognition (CVPR) 2009, 2010, 2011, 2013, 2014, 2016, 2019.

European Conf. on Computer Vision (ECCV) 2010, 2014.

Int'l. Conference on Machine Learning (ICML), 2018

Neural Information Processing Systems (NIPS), 2014, 2015, 2017, 2019.

Int'l. Conference on Learning Representations (ICLR), 2016, 2017

Int'l. Conf. on Artificial Intelligence and Statistics (AISTATS) 2012, 2014, 2015.

Asian Conf. on Computer Vision (ACCV) 2009, 2010, 2012, 2014.

Int'l. Conf. on Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR) 2007, 2009, 2011, 2013, 2015.

Int'l. Workshop on Vision, Modeling and Visualization, 2013.

ACCV Workshop on Detection and Tracking in Challenging Environments, 2012.

Int'l. Workshop on Stochastic Image Grammars 2009, 2011.

IEEE Workshop on Perceptual Organization in Computer Vision (POCV), 2010, 2014.

Int'l Symposium on Visual Computing, 2009, 2010, 2011.

Indian Conference on Vision Graphics and Image Processing (ICVGIP), 2008, 2010.

Grant Reviewer

Royal Society of Engineering Fellowships, 2018

French National Research Agency (ANR), 2014

Swiss National Science Foundation, 2013.

European Union, ERC awards, 2010.

Distinctions and Awards

Best Reviewer award, IEEE Conference on Computer Vision and Pattern Recognition, 2013.

Best Reviewer award, International Conference on Computer Vision, 2009.

Bodossaki Foundation Scholarship as a graduate student.

Obtained in 4 years the 5-year NTUA M. Eng. Degree, ranking in the top 2%.

Paris Kanellakis award for highest ranking student in Computer Science major.

National scholarship foundation awards as an undergraduate.

Personal

Date of Birth: 8th January 1980.

Languages: Greek, English, French, German.

Invited Presentations and Academic Visits

March 2019	AIBEE AI Tutorial, Nanjing and Fudan University
September 2018	Action, Perception and Organization Workshop, ECCV
September 2018	Geometry Meets Deep Learning Workshop, ECCV
September 2018	PoseTrack Workshop, ECCV
September 2018	Max-Planck Institut, Tubingen
August 2018	IAPR Summer School on Machine and Vision Intelligence
July 2018	TU Munich Machine Learning for 3D Understanding workshop
June 2018	3D Humans Workshop (CVPR)
June 2018	Brave New Ideas in Video Understanding Workshop (CVPR)
June 2018	Davis Video Segmentation Workshop (CVPR)
September 2017	Dagstuhl workshop on Deep Learning for Computer Vision
September 2017	Signal Processing Meets Deep Learning Summer School
October 2016	Local features workshop (ECCV)
September 2016	Qualcomm-UvA Deep Vision Seminar
Jun 2016	Perceptual Organization in Computer Vision Workshop (CVPR)
May 2016	Astronomical Data Analysis Summer School, Keynote

Invited Presentations and Academic Visits (cont.d)

May 2016	Facebook Artificial Intelligence Research (FAIR) Paris
May 2016	ETH
March 2016	Oxford University
March 2016	University College London
March 2016	Center for Machine Perception, Prague
February 2016	Simon Fraser University
June 2015	University of California at Los Angeles
February 2015	Imperial College
March 2015	Xerox Research Center Europe
February 2015	Boston University
September 2014	Imagenet workshop
June 2014	TTI-Chicago
March 2014	KTH University
February 2014	Dagstuhl Seminar
November 2013	University of Oulu
July 2013	UCLA, IPAM summer school on computer vision
June 2013	Stony Brook University
April 2013	USI Lugano, visiting faculty (with Prof. M. Bronstein)
April 2013	Zuse Institute Berlin, Graphics Seminar
July 2012	JHU Summer School on Human Language Technology
June 2012	Carnegie Mellon University
June 2012	École Normale Supérieure/Willow Group
June 2012	National Technical University of Athens
July 2011	ETH, Visual Computing Lunch
July 2011	USI Lugano, visiting faculty (with Prof. M. Bronstein)
June 2011	CVPR workshop on Symmetry Detection from Real World Images
January 2011	Oxford University, Visual Geometry Group
June 2010	UCLA, Center for Image and Vision Sciences
April 2009	National Technical University of Athens
September 2008	UCLA, Image Processing Seminar
June 2008	UC Irvine, Artificial Intelligence Seminar
April 2008	Berkeley, Computer Vision Group
April 2008	Caltech, Computational Vision Lab
March 2008	Rutgers University, Dept. of Computer Science
March 2008	University of Pennsylvania, GRASP Laboratory
February 2008	Johns Hopkins University, Center for Imaging Science
February 2008	Stony Brook University, Image Analysis Lab
June 2007	Lotus Hill Institute
June 2003	INRIA Sophia-Antipolis, Odyssee Group

Publications

Journal articles, Book Chapters

- 1 L.-C. Chen, G. Papandreou, I. Kokkinos, K. Murphy and A. L. Yuille: “*DeepLab: Semantic Image Segmentation with Deep Convolutional Nets, Atrous Convolution, and Fully Connected CRFs.*” IEEE Trans. on Pattern Analysis and Machine Intelligence, 2018
- 2 P. Kondaxakis, K. Gulzar, S. Kinauer, I. Kokkinos and V. Kyrki: “*RobotRobot Gesturing for Anchoring Representations*”, IEEE Trans. on Robotics, 2018
- 3 M. Cimpoi, S. Maji, I. Kokkinos, A. Vedaldi, “*Deep Filter Banks for Texture Recognition, Description, and Segmentation*” International Journal of Computer Vision (IJCV), 2016
- 4 E. Trulls, I. Kokkinos, A. Sanfeliu and F. Moreno, “*Dense Segmentation-Aware Descriptors*” In *Dense Image Correspondences for Computer Vision*, Ed.s C. Liu and T. Hassner, Springer, 2015
- 5 I. Kokkinos “*Accelerating Deformable Part Models with Branch-and-Bound*”, In *Perspectives in Shape Analysis - Dagstuhl Seminar on New Perspectives in Shape Analysis*, Ed.s M. Breu, A. Bruckstein, P. Maragos and St. Wuhrer, Springer, 2015
- 6 O. Teboul, I. Kokkinos, S. Loic, P. Katsourakis and N. Paragios, “*Parsing Facades with Shape Grammars and Reinforcement Learning.*”. IEEE Trans. on Pattern Analysis and Machine Intelligence, Nov. 2012, IEEE computer Society Digital Library.
- 7 I. Kokkinos and A. Yuille, “*Inference and Learning with Hierarchical Shape Models.*”, International Journal of Computer Vision (IJCV), Vol. 92(2), pp. 201-225, 2011.
- 8 I. Kokkinos and P. Maragos, “*Synergy Between Image Segmentation and Object Recognition Using the Expectation Maximization Algorithm.*”, IEEE Trans. on Pattern Analysis and Machine Intelligence, Vol. 31(8), pp. 1486-1501, 2009.
- 9 I. Kokkinos, G. Evangelopoulos and P. Maragos, “*Texture Analysis and Segmentation Using Modulation Features, Generative Models and Weighted Curve Evolution.*”, IEEE Trans. on Pattern Analysis and Machine Intelligence, Vol. 31(1), pp. 142-157, 2009.
- 10 I. Kokkinos, R. Deriche, O. Faugeras and P. Maragos, “*Computational Analysis and Learning for a Biologically Motivated Model of Boundary Detection.*”, Neurocomputing, Vol. 71(10-12), pp. 1798-1812, 2008.
- 11 I. Kokkinos and P. Maragos, “*Nonlinear Speech Analysis Using Models for Chaotic Systems.*”, IEEE Trans. on Speech and Audio Processing, Vol. 13(6), pp. 1098-1109, 2005.

Double-blind, peer-reviewed conference articles (acceptance rate 20-30%)

- 12 N. Neverova, J. Thewlis, A. Guler, I. Kokkinos and A. Vedaldi, “*DensePose-Slim: Cheaper Learning from Motion Cues*”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2019.
- 13 Z. Shu, M. Sahasrabudhe, R. A. Guler, D. Samaras, N. Paragios and I. Kokkinos, “*Deforming Autoencoders: Unsupervised Disentangling of Shape and Appearance*”, Proc. European Conf. on Computer Vision (ECCV), 2018

- 14 N. Neverova, R. A. Guler and I. Kokkinos, “Dense Pose Transfer”, Proc. European Conf. on Computer Vision (ECCV), 2018
- 15 R.A. Guler, N. Neverova, I. Kokkinos, “DensePose: Dense Human Pose Estimation In The Wild”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2018.
- 16 S. Chandra, C. Couprie, I. Kokkinos, “Deep Spatio-Temporal Random Fields for Efficient Video Segmentation”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2018.
- 17 S. Chandra, N. Usunier, I. Kokkinos, “Dense and Low-Rank Gaussian CRFs Using Deep Embeddings”, Proc. Int.l Conf. on Computer Vision (ICCV), 2017.
- 18 A. Harley, K. Derpanis, I. Kokkinos, “Segmentation-Aware Convolutional Networks Using Local Attention Masks”, Proc. Int.l Conf. on Computer Vision (ICCV), 2017.
- 19 I. Kokkinos, “UberNet: A ‘Universal’ CNN for the joint treatment of Low-, Mid-, and High-Level Vision Problems”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2017.
- 20 A. Guler, G. Trigeorgis, E. Antontakos, P. Snape, S. Zafeiriou and I. Kokkinos “DenseReg: Fully Convolutional Dense Shape Regression In-the-Wild”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2017.
- 21 G. Trigeorgis, E. Antontakos, P. Snape, I. Kokkinos and S. Zafeiriou “Dense Face Normal Estimation in the Wild”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2017.
- 22 S. Chandra and I. Kokkinos “*Fast, Exact and Multi-Scale Inference for Semantic Image Segmentation with Deep Gaussian CRFs*”, European Conference on Computer Vision (ECCV), 2016.
- 23 I. Kokkinos, “*Pushing the Boundaries of Boundary Detection using Deep Learning*”, Proc. Int.l Conf. on Learning Representations (ICLR), 2016.
- 24 E. Simo-Serra, E. Trulls, L. Ferraz, I. Kokkinos, P. Fua, F. Moreno-Noguer, “*Deep Convolutional Feature Point Descriptors*” Proc. Int.l Conf. on Computer Vision (ICCV), 2015.
- 25 G. Papandreou, I. Kokkinos and P. A. Savalle “*Modeling Local and Global Deformations in Deep Learning: Epitomic Convolution, Multiple Instance Learning, and Sliding Window Detection*”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2015.
- 26 L.-C. Chen, G. Papandreou, I. Kokkinos, K. Murphy and A. Yuille “*Semantic Image Segmentation with Deep Convolutional Nets and Fully Connected CRFs*” Proc. Int.l Conf. on Learning Representations (ICLR) 2015.
- 27 H. Boussaid and I. Kokkinos “*Fast and Exact: ADMM-Based Discriminative Shape Segmentation with Loopy Part Models*”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2014.
- 28 E. Trulls, S. Tsogkas, I. Kokkinos, A. Sanfeliu and F. Moreno, “*Segmentation-Aware Deformable Part Models*” Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2014.
- 29 M. Cimpol, S. Maji, I. Kokkinos, S. Mohammad, and A. Vedaldi “*Describing Textures in the Wild*” Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2014.

- 30 A. Vedaldi, S. Mahendran, S. Tsogkas, S. Maji, R. Girshick, J. Kannala, E. Rahtu, I. Kokkinos, M. Blaschko, N. Saphra and S. Mohammad “*Understanding Objects in Detail with Fine-grained Attributes*”, Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2014.
- 31 I. Kokkinos, “*Shufflets: Shared Mid-level Parts for Fast Multi-Category Detection*” Proc. Int'l Conf. on Computer Vision (ICCV), 2013.
- 32 E. Trulls, I. Kokkinos, A. Sanfeliu and F. Moreno, “*Dense Segmentation-Aware Descriptors*” In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2013.
- 33 S. Tsogkas and I. Kokkinos, “*Learning-based Symmetry Detection in Natural Images*” In Proc. European Conf. on Computer Vision (ECCV), 2012.
- 34 I. Kokkinos, M. Bronstein, R. Littman and A. Bronstein “*Intrinsic Shape Context Descriptors for Deformable Shapes*” In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2012.
- 35 M. Raptis, I. Kokkinos, S. Soatto “*Discovering Discriminative Action Parts from Mid-Level Video Representations*” In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2012.
- 36 I. Kokkinos, “*Rapid Deformable Object Detection using Dual Tree Branch and Bound*” In Proc. Neural Information Processing Systems (NIPS), 2011.
- 37 O. Teboul, I. Kokkinos, L. Simon, P. Koutsourakis, and N. Paragios, “*Shape Grammar Parsing via Reinforcement Learning*” In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2011.
- 38 I. Kokkinos, “*Boundary Detection using F-measure, Filter- and Feature Boost.*”, In Proc. European Conference in Computer Vision (ECCV), 2010.
- 39 I. Kokkinos, “*Highly Accurate Boundary Detection and Grouping.*”, In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2010.
- 40 M. Bronstein and I. Kokkinos, “*Scale-invariant heat kernel signatures for non-rigid shape recognition.*”, In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2010.
- 41 I. Kokkinos and A. Yuille, “*HOP: Hierarchical Object Parsing.*”, In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2009.
- 42 I. Kokkinos and A. Yuille, “*Scale Invariance without Scale Selection.*”, In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2008.
- 43 I. Kokkinos and A. Yuille, “*Unsupervised Learning of Object Deformation Models.*”, In Proc. IEEE Int'l. Conf. on Computer Vision (ICCV), 2007.
- 44 I. Kokkinos, P. Maragos and A. Yuille, “*Bottom-Up and Top-Down Object Detection Using Primal Sketch Features and Graphical Models.*”, In Proc. IEEE Conf. on Computer Vision and Pattern Recognition (CVPR), 2006.
- 45 I. Kokkinos and P. Maragos, “*An Expectation Maximization Approach to the Synergy Between Image Segmentation and Object Categorization.*”, In Proc. IEEE Int'l. Conf. on Computer Vision (ICCV), 2005.
- 46 I. Kokkinos, R. Deriche, P. Maragos and O. Faugeras, “*A Biologically Motivated and Computationally Tractable Model of Low- and Mid- Level Vision Tasks.*”, In Proc. European Conference on Computer Vision (ECCV), 2004.

Peer-reviewed conference and workshop articles

- 47 S. Bloomberg, R. Tanno, I. Kokkinos, D. Alexander, “*Deeper Image Quality Transfer: Training Low-Memory Neural Networks for 3D Images.*”, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2018
- 48 N. Zeghidour, N. Usunier, I. Kokkinos, T. Schatz, G. Synnaeve, E. Duproux, “*Learning Filterbanks from Raw Speech for Phone Recognition.*”, ICASSP 2018
- 49 N. Neverova and I. Kokkinos, “*Mass Displacement Networks*”, British Machine Vision Conference (BMVC) 2018
- 50 E. Chiou, F. Giganti, E. Bonet-Carne, S. Punwani, I. Kokkinos and E. Panagiotaki, “*Prostate Cancer Classification on VERDICT DW-MRI Using Convolutional Neural Networks*” Machine Learning in Medical Imaging, MICCAI 2018
- 51 S. Kinauer, A. Guler, S. Chandra, I. Kokkinos, “*Structured Output Prediction and Learning for Deep Monocular 3D Human Pose Estimation*”, Energy Minimization in Computer Vision and Pattern Recognition (EMMCVPR), 2017
- 52 A. Guler, N. Kardaris, S. Chandra, V. Pitsikalis, C. Werner, K. Hauer, C. S. Tzafestas, P. Maragos, I. Kokkinos: “*Human Joint Angle Estimation and Gesture Recognition for Assistive Robotic Vision.*”, European Conference on Computer Vision Workshops, 2016.
- 53 S. Kinauer, M. Berman and I. Kokkinos “*Monocular Surface Reconstruction Using 3D Deformable Part Models*” European Conference on Computer Vision Workshops, 2016.
- 54 M. Shakeri, S. Tsogkas, E. Ferrante, S. Lippe, S. Kadouri, N. Paragios and I. Kokkinos, “*Coregistration and Cosegmentation with Weak Segmentation Priors*”, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2016.
- 55 S. Tsogkas, M. Shakeri, E. Ferrante, S. Lippe, S. Kadoury, N. Paragios, I. Kokkinos, “*Subcortical Brain Structure Segmentation Using F-CNNs*”, International Symposium on Biomedical Imaging (ISBI), 2016.
- 56 A. W. Harley, K. G. Derpanis, I. Kokkinos “*Learning Dense Convolutional Embeddings for Semantic Segmentation*”, Proc. Int.l Conf. on Learning Representations (ICLR), workshop track, 2016.
- 57 S. Chandra, G. Chrysos and I. Kokkinos, “*Surface Based Object Detection in RGBD Images*”, Proc. British Machine Vision Conference (BMVC), 2015.
- 58 P.-A. Savalle, S. Tsogkas, G. Papandreou and I. Kokkinos, “*Deformable Part Models with CNN Features*”, Proc. Workshop on Parts and Attributes, in conjunction with ECCV, 2014.
- 59 H. Boussaid, I. Kokkinos, and N. Paragios “*Discriminative Learning of Deformable Contour Models*”, International Symposium on Biomedical Imaging (ISBI), 2014.
- 60 Evita-Stavroula Fotinea, Eleni Efthimiou, Athanasia-Lida Dimou, Theodore Goulas, Panayotis Karioris, Angelika Peer, Petros Maragos, Costas S. Tzafestas, Iasonas Kokkinos, Klaus Hauer, Katja Mombaur, Yiannis Koumpouros and Bartlomiej Stanczyk: “*Data Acquisition towards Defining a Multimodal Interaction Model for Human - Assistive Robot Communication.*” HCI (6) 2014.
- 61 Xanthi S. Papageorgiou, Costas S. Tzafestas, Petros Maragos, Georgios Pavlakos, Georgia Chalvatzaki, George Moustiris, Iasonas Kokkinos, Angelika Peer, Bartlomiej Stanczyk, Evita-Stavroula Fotinea, Eleni Efthimiou: “*Advances in Intelligent Mobility Assistance Robot Integrating Multimodal Sensory Processing.*” HCI (6) 2014.

- 62 H. Boussaid, I. Kokkinos, and N. Paragios “*Rapid Mode Estimation for 3D MRI Brain Tumor Segmentation*”, Energy Minimization Methods in Computer Vision and Pattern Recognition (EMMCVPR), 2013.
- 63 I. Kokkinos, “*Bounding Part Scores for Rapid Detection with Deformable Part Models*”, Proc. Workshop on Parts and Attributes, in conjunction with ECCV, 2012.
- 64 H. Boussaid, S.Kadoury, I. Kokkinos, J.-Y. Lazenec, G. Zheng, N. Paragios, “*3D Model-based Reconstruction of the Proximal Femur from Low-dose Biplanar X-Ray Images*”, Proc. British Machine Vision Conference (BMVC), 2011.
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