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1. [arXiv:1706.02631](#) [[pdf](#), [other](#)]

Title: Generative Autotransporters

Authors: [Jiqing Wu](#), [Zhiwu Huang](#), [Wen Li](#), [Luc Van Gool](#)

Comments: *First two authors made equal contributions. Submitted to NIPS on May 19, 2017

Subjects: Computer Vision and Pattern Recognition (cs.CV); Machine Learning (stat.ML)

2. [arXiv:1705.09368](#) [[pdf](#), [other](#)]

Title: Pose Guided Person Image Generation

Authors: [Liqian Ma](#), [Xu Jia](#), [Qianru Sun](#), [Bernt Schiele](#), [Tinne Tuytelaars](#), [Luc Van Gool](#)

Comments: Xu Jia and Qianru Sun contribute equally to this work

Subjects: Computer Vision and Pattern Recognition (cs.CV)

3. [arXiv:1705.05640](#) [[pdf](#), [other](#)]

Title: WebVision Challenge: Visual Learning and Understanding With Web Data

Authors: [Wen Li](#), [Limin Wang](#), [Wei Li](#), [Eirikur Agustsson](#), [Jesse Berent](#), [Abhinav Gupta](#), [Rahul Sukthankar](#), [Luc Van Gool](#)

Comments: project page: [this http URL](#)

Subjects: Computer Vision and Pattern Recognition (cs.CV)

4. [arXiv:1705.02953](#) [[pdf](#), [other](#)]

Title: Temporal Segment Networks for Action Recognition in Videos

Authors: [Limin Wang](#), [Yuanjun Xiong](#), [Zhe Wang](#), [Yu Qiao](#), [Dahua Lin](#), [Xiaoou Tang](#), [Luc Van Gool](#)

Comments: 14 pages. An extension of submission at [this https URL](#)

Subjects: Computer Vision and Pattern Recognition (cs.CV)

5. [arXiv:1705.00581](#) [[pdf](#), [other](#)]

Title: Query-adaptive Video Summarization via Quality-aware Relevance Estimation

Authors: [Arun Balajee Vasudevan](#), [Michael Gygli](#), [Anna Volokitin](#), [Luc Van Gool](#)

Comments: Submitted to ACM Multimedia 2017

Subjects: Computer Vision and Pattern Recognition (cs.CV); Computation and Language (cs.CL);
Multimedia (cs.MM)

6. [arXiv:1705.00464](#) [[pdf](#), [other](#)]
Title: Speech-Based Visual Question Answering
Authors: [Ted Zhang](#), [Dengxin Dai](#), [Tinne Tuytelaars](#), [Marie-Francine Moens](#), [Luc Van Gool](#)
Comments: In review
Subjects: Computation and Language (cs.CL); Computer Vision and Pattern Recognition (cs.CV)
7. [arXiv:1704.02470](#) [[pdf](#), [other](#)]
Title: DSLR-Quality Photos on Mobile Devices with Deep Convolutional Networks
Authors: [Andrey Ignatov](#), [Nikolay Kobyshev](#), [Kenneth Vanhoey](#), [Radu Timofte](#), [Luc Van Gool](#)
Subjects: Computer Vision and Pattern Recognition (cs.CV)
8. [arXiv:1704.01926](#) [[pdf](#), [other](#)]
Title: Semantically-Guided Video Object Segmentation
Authors: [Sergi Caelles](#), [Yuhua Chen](#), [Jordi Pont-Tuset](#), [Luc Van Gool](#)
Subjects: Computer Vision and Pattern Recognition (cs.CV)
9. [arXiv:1704.01372](#) [[pdf](#), [other](#)]
Title: On the Relation between Color Image Denoising and Classification
Authors: [Jiqing Wu](#), [Radu Timofte](#), [Zhiwu Huang](#), [Luc Van Gool](#)
Subjects: Computer Vision and Pattern Recognition (cs.CV)
10. [arXiv:1704.00675](#) [[pdf](#), [other](#)]
Title: The 2017 DAVIS Challenge on Video Object Segmentation
Authors: [Jordi Pont-Tuset](#), [Federico Perazzi](#), [Sergi Caelles](#), [Pablo Arbeláez](#), [Alex Sorkine-Hornung](#), [Luc Van Gool](#)
Comments: Challenge website: [this http URL](#)
Subjects: Computer Vision and Pattern Recognition (cs.CV)
11. [arXiv:1704.00648](#) [[pdf](#), [other](#)]
Title: Soft-to-Hard Vector Quantization for End-to-End Learning Compressible Representations
Authors: [Eirikur Agustsson](#), [Fabian Mentzer](#), [Michael Tschannen](#), [Lukas Cavigelli](#), [Radu Timofte](#), [Luca Benini](#), [Luc Van Gool](#)
Subjects: Learning (cs.LG); Computer Vision and Pattern Recognition (cs.CV)
12. [arXiv:1703.10898](#) [[pdf](#), [other](#)]
Title: Thin-Slicing Network: A Deep Structured Model for Pose Estimation in Videos
Authors: [Jie Song](#), [Limin Wang](#), [Luc Van Gool](#), [Otmar Hilliges](#)
Comments: Preliminary version to appear in CVPR2017
Subjects: Computer Vision and Pattern Recognition (cs.CV)
13. [arXiv:1703.08836](#) [[pdf](#), [other](#)]
Title: Learned multi-patch similarity
Authors: [Wilfried Hartmann](#), [Silvano Galliani](#), [Michal Havlena](#), [Konrad Schindler](#), [Luc Van Gool](#)
Subjects: Computer Vision and Pattern Recognition (cs.CV); Learning (cs.LG)
14. [arXiv:1703.03329](#) [[pdf](#), [other](#)]
Title: UntrimmedNets for Weakly Supervised Action Recognition and Detection
Authors: [Limin Wang](#), [Yuanjun Xiong](#), [Dahua Lin](#), [Luc Van Gool](#)
Comments: camera-ready version to appear in CVPR2017
Subjects: Computer Vision and Pattern Recognition (cs.CV)
15. [arXiv:1703.02437](#) [[pdf](#), [other](#)]
Title: PathTrack: Fast Trajectory Annotation with Path Supervision
Authors: [Santiago Manen](#), [Michael Gygli](#), [Dengxin Dai](#), [Luc Van Gool](#)
Comments: 10 pages, ICCV submission
Subjects: Computer Vision and Pattern Recognition (cs.CV); Learning (cs.LG); Multimedia (cs.MM)
16. [arXiv:1702.08160](#) [[pdf](#), [other](#)]
Title: HashBox: Hash Hierarchical Segmentation exploiting Bounding Box Object Detection
Authors: [Joachim Curto](#), [Irene Zarza](#), [Alexander J. Smola](#), [Luc Van Gool](#)
Subjects: Computer Vision and Pattern Recognition (cs.CV)
17. [arXiv:1702.08159](#) [[pdf](#), [other](#)]
Title: F2F: A Library For Fast Kernel Expansions
Authors: [Joachim Curto](#), [Irene Zarza](#), [Feng Yang](#), [Alexander J. Smola](#), [Luc Van Gool](#)
Subjects: Learning (cs.LG)
18. [arXiv:1702.03431](#) [[pdf](#), [other](#)]

Title: Crossing Nets: Dual Generative Models with a Shared Latent Space for Hand Pose Estimation

Authors: [Chengde Wan](#), [Thomas Probst](#), [Luc Van Gool](#), [Angela Yao](#)

Comments: 10 pages, 5 figures

Subjects: Computer Vision and Pattern Recognition (cs.CV)

19. [arXiv:1701.04658](#) [[pdf](#), [other](#)]

Title: Convolutional Oriented Boundaries: From Image Segmentation to High-Level Tasks

Authors: [Kevis-Kokitsi Maninis](#), [Jordi Pont-Tuset](#), [Pablo Arbeláez](#), [Luc Van Gool](#)

Comments: Accepted by T-PAMI. Extended version of "Convolutional Oriented Boundaries", ECCV 2016 ([arXiv:1608.02755](#)). Project page: [this http URL](#)

Subjects: Computer Vision and Pattern Recognition (cs.CV)

20. [arXiv:1701.00599](#) [[pdf](#), [other](#)]

Title: AENet: Learning Deep Audio Features for Video Analysis

Authors: [Naoya Takahashi](#), [Michael Gygli](#), [Luc Van Gool](#)

Comments: 12 pages, 9 figures. arXiv admin note: text overlap with [arXiv:1604.07160](#)

Subjects: Multimedia (cs.MM); Computer Vision and Pattern Recognition (cs.CV); Sound (cs.SD)

21. [arXiv:1612.07899](#) [[pdf](#), [other](#)]

Title: DARN: a Deep Adversial Residual Network for Intrinsic Image Decomposition

Authors: [Louis Lettry](#), [Kenneth Vanhoey](#), [Luc Van Gool](#)

Subjects: Computer Vision and Pattern Recognition (cs.CV)

22. [arXiv:1612.05877](#) [[pdf](#), [other](#)]

Title: Deep Learning on Lie Groups for Skeleton-based Action Recognition

Authors: [Zhiwu Huang](#), [Chengde Wan](#), [Thomas Probst](#), [Luc Van Gool](#)

Comments: Accepted to CVPR 2017

Subjects: Computer Vision and Pattern Recognition (cs.CV)

23. [arXiv:1611.09325](#) [[pdf](#), [other](#)]

Title: Natural Illumination from Multiple Materials Using Deep Learning

Authors: [Stamatios Georgoulis](#), [Konstantinos Rematas](#), [Tobias Ritschel](#), [Mario Fritz](#), [Tinne Tuytelaars](#), [Luc Van Gool](#)

Comments: Project: [this http URL](#)

Subjects: Computer Vision and Pattern Recognition (cs.CV)

24. [arXiv:1611.08258](#) [[pdf](#), [other](#)]

Title: Weakly Supervised Cascaded Convolutional Networks

Authors: [Ali Diba](#), [Vivek Sharma](#), [Ali Pazandeh](#), [Hamed Pirsiavash](#), [Luc Van Gool](#)

Subjects: Computer Vision and Pattern Recognition (cs.CV)

25. [arXiv:1611.06678](#) [[pdf](#), [other](#)]

Title: Deep Temporal Linear Encoding Networks

Authors: [Ali Diba](#), [Vivek Sharma](#), [Luc Van Gool](#)

Comments: Ali Diba and Vivek Sharma contributed equally to this work and listed in alphabetical order

Subjects: Computer Vision and Pattern Recognition (cs.CV)

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