# Refereed Publications (365)

Refereed Journal Articles (153)

- Z. Tian, B. Zhang, H. Chen, <u>C. Shen</u> (2022), "Instance and panoptic segmentation using conditional convolutions", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- Y. Cui, D. Guo, Y. Shao, Z. Wang, <u>C. Shen</u>, L. Zhang, S. Chen (2021), "Joint classification and regression for visual tracking with fully convolutional Siamese networks", *Int'l J. Computer Vision*.
- H. Zhang, Y. Li, H. Chen, C. Gong, Z. Bai, <u>C. Shen</u> (2021), "Memory-efficient hierarchical neural architecture search for image restoration", *Int'l J. Computer Vision*.
- Q. Yan, D. Gong, Q. Shi, A. van den Hengel, <u>C. Shen</u>, I. Reid, Y. Zhang (2021), "A dual-attention-guided network for ghost-free high dynamic range imaging", *Int'l J. Computer Vision*.
- C. Yu, C. Gao, J. Wang, G. Yu, <u>C. Shen</u>, N. Sang (2021), "BiSeNet v2: bilateral network with guided aggregation for real-time semantic segmentation", *Int'l J. Computer Vision*.
- N. Wang, Y. Gao, H. Chen, P. Wang, Z. Tian, <u>C. Shen</u>, Y. Zhang (2021), "NAS-FCOS: efficient search for object detection architectures", *Int'l J. Computer Vision*.
- J. Bian, H. Zhan, N. Wang, Z. Li, L. Zhang, <u>C. Shen</u>, M. Cheng, I. Reid (2021), "Unsupervised scale-consistent depth learning from video", *Int'l J. Computer Vision*.
- Y. Liu, T. He, H. Chen, X. Wang, C. Luo, S. Zhang, <u>C. Shen</u>, L. Jin (2021), "Exploring the capacity of an orderless box discretization network for multi-orientation scene text detection", *Int'l J. Computer Vision*.
- Y. Zhao, X. Yu, Y. Gao, <u>C. Shen</u> (2021), "Learning discriminative region representation for person retrieval", Pattern Recognition.
- Y. Zhao, <u>C. Shen</u>, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), "Learning deep part-aware embedding for person retrieval", *Pattern Recognition*.
- L. Tian, P. Wang, G. Liang, <u>C. Shen</u> (2021), "An adversarial human pose estimation network injected with graph structure", *Pattern Recognition*.
- Y. Xie, J. Zhang, Z. Liao, J. Verjans, C. Shen, Y. Xia (2021), "Intra- and inter-pair consistency for semi-supervised gland segmentation", *IEEE Trans. Image Processing*.
- J. Bian, H. Zhan, N. Wang, T. Chin, <u>C. Shen</u>, I. Reid (2021), "Auto-rectify network for unsupervised indoor depth estimation", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- X. Wang, R. Zhang, C. Shen, T. Kong, L. Li (2021), "SOLO: a simple framework for instance segmentation", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- Y. Liu, <u>C. Shen</u>, L. Jin, T. He, P. Chen, C. Liu, H. Chen (2021), "ABCNet v2: adaptive bezier-curve network for real-time end-to-end text spotting", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- W. Yin, Y. Liu, C. Shen (2021), "Virtual normal: enforcing geometric constraints for accurate and robust depth prediction", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- P. Wang, H. Li, <u>C. Shen</u> (2021), "Towards end-to-end text spotting in natural scenes", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- W. Wang, E. Xie, X. Liu, D. Liang, Z. Yang, T. Lu, <u>C. Shen</u> (2021), "PAN++: towards efficient and accurate end-to-end spotting of arbitrarily-shaped text", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- B. Zhuang, J. Liu, M. Tan, L. Liu, I. Reid, <u>C. Shen</u> (2021), "Effective training of convolutional neural networks with low-bitwidth weights and activations", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- G. Pang, C. Shen, L. Cao, A. van den Hengel (2020), "Deep learning for anomaly detection: a review", *ACM Computing Surveys*.
- Y. Dai, H. Lu, <u>C. Shen</u> (2020), "Towards light-weight portrait matting via parameter sharing", *Computer Graphics Forum*.
- <sup>22</sup> C. Luo, Q. Lin, Y. Liu, L. Jin, <u>C. Shen</u> (2020), "Separating content from style using adversarial learning for recognizing text in the wild", *Int'l J. Computer Vision*.
- H. Xiong, Z. Cao, H. Lu, S. Madec, L. Liu, <u>C. Shen</u> (2020), "TasselNetv2: in-field counting of wheat spikes with context-augmented local regression networks", *Plant Methods*.
- Y. Zhao, Y. Liu, <u>C. Shen</u>, Y. Gao, S. Xiong (2020), "MobileFAN: transferring deep hidden representation for face alignment", *Pattern Recognition*.
- X. Zhang, R. Zhang, J. Cao, D. Gong, M. You, <u>C. Shen</u> (2020), "Part-guided attention learning for vehicle instance retrieval", *IEEE Trans. Intelligent Transportation Systems*.
- G. Dong, Y. Yan, C. Shen, H. Wang (2020), "Real-time high-performance semantic image segmentation of urban street scenes", *IEEE Trans. Intelligent Transportation Systems*.

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- Y. Yan, Y. Huang, S. Chen, <u>C. Shen</u>, H. Wang (2020), "Joint deep learning of facial expression synthesis and recognition", *IEEE Trans. Multimedia*.
- X. Peng, H. Zhu, J. Feng, <u>C. Shen</u>, H. Zhang, J. Zhou (2020), "Deep clustering with sample-assignment invariance prior", *IEEE Trans. Neural Networks and Learning Systems*.
- D. Gong, Z. Zhang, Q. Shi, A. van den Hengel, <u>C. Shen</u>, Y. Zhang (2020), "Learning deep gradient descent optimization for image deconvolution", *IEEE Trans. Neural Networks and Learning Systems*.
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- Proc. IEEE Int. Conf. Robotics & Automation (ICRA)
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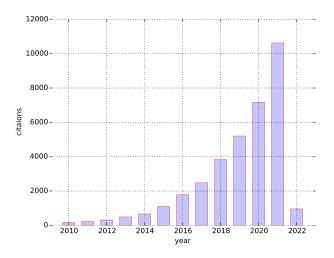


Figure 1: Google scholar citation as of 5.2.2022