# Refereed Publications (341)

Refereed Journal Articles (139)

- 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, <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*.
- W. Wang, E. Xie, X. Li, 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*.
- 9 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, <u>C. Shen</u>, H. Wang (2020), "Real-time high-performance semantic image segmentation of urban street scenes", *IEEE Trans. Intelligent Transportation Systems*.
- L. Zhang, P. Wang, H. Li, Z. Li, <u>C. Shen</u>, Y. Zhang (2020), "A robust attentional framework for license plate recognition in the wild", *IEEE Trans. Intelligent Transportation Systems*.
- L. Liu, Z. Cao, H. Lu, H. Xiong, <u>C. Shen</u> (2020), "NSSNet: scale-aware object counting with non-scale suppression", *IEEE Trans. Circuits and Systems for Video Technology*.
- L. Zhang, P. Wang, L. Liu, <u>C. Shen</u>, W. Wei, Y. Zhang, A. van den Hengel (2020), "Towards effective deep embedding for zero-shot learning", *IEEE Trans. Circuits and Systems for Video Technology*.
- J. Zhang, Y. Xie, Z. Liao, G. Pang, J. Verjans, W. Li, Z. Sun, J. He, Y. Li, <u>C. Shen</u>, Y. Xia (2020), "Viral pneumonia screening on chest x-ray images using confidence-aware anomaly detection", *IEEE Trans. Medical Imaging*.
- Y. Xie, J. Zhang, H. Lu, <u>C. Shen</u>, Y. Xia (2020), "SESV: accurate medical image segmentation by predicting and correcting errors", *IEEE Trans. Medical Imaging*.
- Y. Xie, J. Zhang, Y. Xia, <u>C. Shen</u> (2020), "A mutual bootstrapping model for automated skin lesion segmentation and classification", *IEEE Trans. Medical Imaging*.
- S. Zhang, Y. Liu, L. Jin, Z. Wei, <u>C. Shen</u> (2020), "OPMP: an omni-directional pyramid mask proposal network for arbitrary-shape scene text detection", *IEEE Trans. Multimedia*.
- 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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- W. Liu, P. Zhang, X. Huang, J. Yang, <u>C. Shen</u>, I. Reid (2020), "Real-time image smoothing via iterative least squares", *ACM Trans. Graphics*.
- J. Cao, Y. Guo, Q. Wu, C. Shen, J. Huang, M. Tan (2020), "Improving generative adversarial networks

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- L. Zhang, Z. Shi, J. Zhou, M. Cheng, Y. Liu, J. Bian, Z. Zeng, <u>C. Shen</u> (2020), "Ordered or orderless: a revisit for video based person re-identification", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
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- Y. Zhao, <u>C. Shen</u>, H. Wang, S. Chen (2019), "Structural analysis of attributes for vehicle re-identification and retrieval", *IEEE Trans. Intelligent Transportation Systems*.
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- J. Zhang, Y. Xie, Y. Xia, <u>C. Shen</u> (2019), "Attention residual learning for skin lesion classification", *IEEE Trans. Medical Imaging*.
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- X. Wei, C. Zhang, J. Wu, <u>C. Shen</u>, Z. Zhou (2018), "Unsupervised object discovery and co-localization by deep descriptor transforming", *Pattern Recognition*.
- N. Zhuang, Y. Yan, S. Chen, H. Wang, <u>C. Shen</u> (2018), "Multi-label learning based deep transfer neural network for facial attribute classification", *Pattern Recognition*.
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### Refereed top conference articles in computer vision and machine learning (132)

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- Proc. Int. Conf. Machine Learning (ICML)
- Proc. IEEE Conf. Computer Vision & Pattern Recognition (CVPR)
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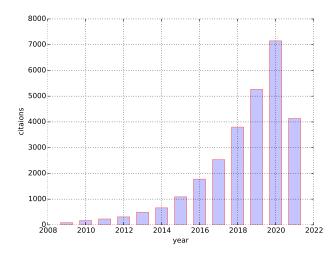


Figure 1: Google scholar citation as of 15.6.2021