# Refereed Publications (314)

Refereed Journal Articles (131)

- Y. Dai, H. Lu, <u>C. Shen</u> (2020), "Towards light-weight portrait matting via parameter sharing", *Computer Graphics Forum*.
- 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*.
- L. Zhang, W. Wei, Q. Shi, <u>C. Shen</u>, A. van den Hengel, Y. Zhang (2020), "Accurate tensor completion via adaptive low-rank representation", *IEEE Trans. Neural Networks and Learning Systems*.
- 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, <u>C. Shen</u>, J. Huang, M. Tan (2020), "Improving generative adversarial networks with local coordinate coding", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- H. Lu, Y. Dai, <u>C. Shen</u>, S. Xu (2020), "Index networks", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- Y. Liu, C. Shun, J. Wang, <u>C. Shen</u> (2020), "Structured knowledge distillation for dense prediction", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- Y. Zhou, R. Ji, J. Su, X. Sun, D. Meng, Y. Gao, <u>C. Shen</u> (2020), "Plenty is plague: fine-grained learning for visual question answering", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
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### Refereed major conference articles in artificial intelligence and robotics (23)

- Proc. AAAI Conf. Artificial Intelligence (AAAI)
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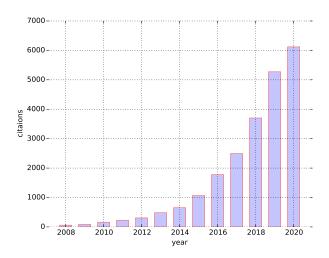


Figure 1: Google scholar citation as of 25.11.2020