

## Refereed Publications (314)

### REFEREED JOURNAL ARTICLES (131)

- 1 2020 Y. Dai, H. Lu, C. Shen (2020), “Towards light-weight portrait matting via parameter sharing”, *Computer Graphics Forum*.
- 2 H. Xiong, Z. Cao, H. Lu, S. Madec, L. Liu, C. Shen (2020), “TasselNetv2: in-field counting of wheat spikes with context-augmented local regression networks”, *Plant Methods*.
- 3 Y. Zhao, Y. Liu, C. Shen, Y. Gao, S. Xiong (2020), “MobileFAN: transferring deep hidden representation for face alignment”, *Pattern Recognition*.
- 4 X. Zhang, R. Zhang, J. Cao, D. Gong, M. You, C. Shen (2020), “Part-guided attention learning for vehicle instance retrieval”, *IEEE Trans. Intelligent Transportation Systems*.
- 5 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*.
- 6 L. Zhang, P. Wang, H. Li, Z. Li, C. Shen, Y. Zhang (2020), “A robust attentional framework for license plate recognition in the wild”, *IEEE Trans. Intelligent Transportation Systems*.
- 7 L. Liu, Z. Cao, H. Lu, H. Xiong, C. Shen (2020), “NSSNet: scale-aware object counting with non-scale suppression”, *IEEE Trans. Circuits and Systems for Video Technology*.
- 8 L. Zhang, P. Wang, L. Liu, C. Shen, 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*.
- 9 J. Zhang, Y. Xie, Z. Liao, G. Pang, J. Verjans, W. Li, Z. Sun, J. He, Y. Li, C. Shen, Y. Xia (2020), “Viral pneumonia screening on chest x-ray images using confidence-aware anomaly detection”, *IEEE Trans. Medical Imaging*.
- 10 Y. Xie, J. Zhang, H. Lu, C. Shen, Y. Xia (2020), “SESV: accurate medical image segmentation by predicting and correcting errors”, *IEEE Trans. Medical Imaging*.
- 11 Y. Xie, J. Zhang, Y. Xia, C. Shen (2020), “A mutual bootstrapping model for automated skin lesion segmentation and classification”, *IEEE Trans. Medical Imaging*.
- 12 S. Zhang, Y. Liu, L. Jin, Z. Wei, C. Shen (2020), “OPMP: an omni-directional pyramid mask proposal network for arbitrary-shape scene text detection”, *IEEE Trans. Multimedia*.
- 13 Y. Yan, Y. Huang, S. Chen, C. Shen, H. Wang (2020), “Joint deep learning of facial expression synthesis and recognition”, *IEEE Trans. Multimedia*.
- 14 X. Peng, H. Zhu, J. Feng, C. Shen, H. Zhang, J. Zhou (2020), “Deep clustering with sample-assignment invariance prior”, *IEEE Trans. Neural Networks and Learning Systems*.
- 15 D. Gong, Z. Zhang, Q. Shi, A. van den Hengel, C. Shen, Y. Zhang (2020), “Learning deep gradient descent optimization for image deconvolution”, *IEEE Trans. Neural Networks and Learning Systems*.
- 16 L. Zhang, W. Wei, Q. Shi, C. Shen, A. van den Hengel, Y. Zhang (2020), “Accurate tensor completion via adaptive low-rank representation”, *IEEE Trans. Neural Networks and Learning Systems*.
- 17 W. Liu, P. Zhang, X. Huang, J. Yang, C. Shen, I. Reid (2020), “Real-time image smoothing via iterative least squares”, *ACM Trans. Graphics*.
- 18 J. Cao, Y. Guo, Q. Wu, C. Shen, J. Huang, M. Tan (2020), “Improving generative adversarial networks with local coordinate coding”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 19 H. Lu, Y. Dai, C. Shen, S. Xu (2020), “Index networks”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 20 Y. Liu, C. Shen, J. Wang, C. Shen (2020), “Structured knowledge distillation for dense prediction”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 21 Y. Zhou, R. Ji, J. Su, X. Sun, D. Meng, Y. Gao, C. Shen (2020), “Plenty is plague: fine-grained learning for visual question answering”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 22 L. Zhang, Z. Shi, J. Zhou, M. Cheng, Y. Liu, J. Bian, Z. Zeng, C. Shen (2020), “Ordered or orderless: a revisit for video based person re-identification”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 23 Y. Chen, C. Shen, H. Chen, X. Wei, L. Liu, J. Yang (2020), “Adversarial learning of structure-aware fully convolutional networks for landmark localization”, *IEEE Trans. Pattern Analysis and Machine Intelligence* 42: 1654–1669.
- 24 2019 L. Zhang, P. Wang, C. Shen, L. Liu, W. Wei, Y. Zhang, A. van den Hengel (2019), “Adaptive importance learning for improving lightweight image super-resolution network”, *Int’l J. Computer Vision*.
- 25 L. Zhang, W. Wei, Q. Shen, C. Shen, A. van den Hengel (2019), “Accurate imagery recovery using a multi-observation patch model”, *Information Sciences*.
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L. Zhang, W. Wei, Y. Zhang, C. Shen, A. van den Hengel, Q. Shi (2018), “Cluster sparsity field: an internal hyperspectral imagery prior for reconstruction”, *Int’l J. Computer Vision*.

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G. Guo, H. Wang, C. Shen, Y. Yan, H. Liao (2018), “Automatic image cropping for visual aesthetic enhancement using deep neural networks and cascaded regression”, *IEEE Trans. Multimedia*.

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#### REFEREED TOP CONFERENCE ARTICLES IN COMPUTER VISION AND MACHINE LEARNING (118)

- *Proc. Annual Conf. Neural Information Processing Systems (NeurIPS)*
- *Proc. Int. Conf. Machine Learning (ICML)*
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- *Proc. Int. Conf. Computer Vision (ICCV)*
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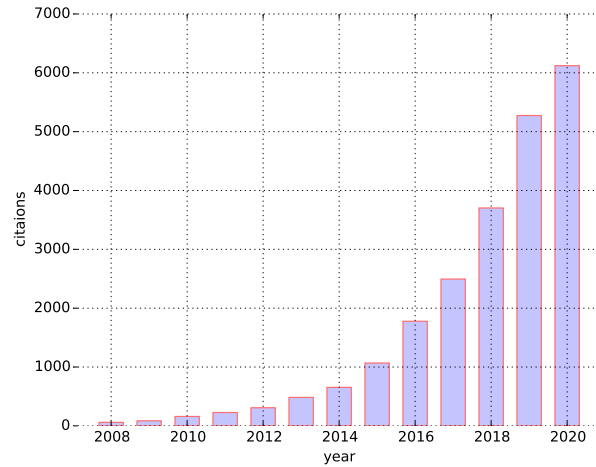


Figure 1: Google scholar citation as of 25·11·2020