

## Refereed Publications (342)

### REFEREED JOURNAL ARTICLES (140)

- 1 2021 J. Bian, H. Zhan, N. Wang, Z. Li, L. Zhang, C. Shen, M. Cheng, I. Reid (2021), “Unsupervised scale-consistent depth learning from video”, *Int’l J. Computer Vision*.
- 2 Y. Liu, T. He, H. Chen, X. Wang, C. Luo, S. Zhang, C. Shen, L. Jin (2021), “Exploring the capacity of an orderless box discretization network for multi-orientation scene text detection”, *Int’l J. Computer Vision*.
- 3 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “Learning deep part-aware embedding for person retrieval”, *Pattern Recognition*.
- 4 L. Tian, P. Wang, G. Liang, C. Shen (2021), “An adversarial human pose estimation network injected with graph structure”, *Pattern Recognition*.
- 5 P. Wang, H. Li, C. Shen (2021), “Towards end-to-end text spotting in natural scenes”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 6 W. Wang, E. Xie, X. Li, X. Liu, D. Liang, Z. Yang, T. Lu, C. Shen (2021), “PAN++: towards efficient and accurate end-to-end spotting of arbitrarily-shaped text”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 7 B. Zhuang, J. Liu, M. Tan, L. Liu, I. Reid, C. Shen (2021), “Effective training of convolutional neural networks with low-bitwidth weights and activations”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 8 2020 G. Pang, C. Shen, L. Cao, A. van den Hengel (2020), “Deep learning for anomaly detection: a review”, *ACM Computing Surveys*.
- 9 Y. Dai, H. Lu, C. Shen (2020), “Towards light-weight portrait matting via parameter sharing”, *Computer Graphics Forum*.
- 10 C. Luo, Q. Lin, Y. Liu, L. Jin, C. Shen (2020), “Separating content from style using adversarial learning for recognizing text in the wild”, *Int’l J. Computer Vision*.
- 11 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*.
- 12 Y. Zhao, Y. Liu, C. Shen, Y. Gao, S. Xiong (2020), “MobileFAN: transferring deep hidden representation for face alignment”, *Pattern Recognition*.
- 13 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*.
- 14 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*.
- 15 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*.
- 16 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*.
- 17 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*.
- 18 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*.
- 19 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*.
- 20 Y. Xie, J. Zhang, Y. Xia, C. Shen (2020), “A mutual bootstrapping model for automated skin lesion segmentation and classification”, *IEEE Trans. Medical Imaging*.
- 21 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*.
- 22 Y. Yan, Y. Huang, S. Chen, C. Shen, H. Wang (2020), “Joint deep learning of facial expression synthesis and recognition”, *IEEE Trans. Multimedia*.
- 23 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*.
- 24 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*.
- 25 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*.
- 26 W. Liu, P. Zhang, X. Huang, J. Yang, C. Shen, 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 with local coordinate coding”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.

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X. Wang, C. Shen, H. Li, S. Xu (2019), “Human detection aided by deeply learned semantic masks”, *IEEE Trans. Circuits and Systems for Video Technology*.

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N. Zhuang, Y. Yan, S. Chen, H. Wang, C. Shen (2018), “Multi-label learning based deep transfer neural network for facial attribute classification”, *Pattern Recognition*.

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- M. You, Y. Zhang, C. Shen, X. Zhang (2018), "An extended filtered channel framework for pedestrian detection", *IEEE Trans. Intelligent Transportation Systems* 19: 1640–1651.
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- Q. Hu, P. Wang, C. Shen, A. van den Hengel, F. Porikli (2018), "Pushing the limits of deep CNNs for pedestrian detection", *IEEE Trans. Circuits and Systems for Video Technology* 28.
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- H. Liu, R. Ji, J. Wang, C. Shen (2018), "Ordinal constraint binary coding for approximate nearest neighbor search", *IEEE Trans. Pattern Analysis and Machine Intelligence*.
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- *Proc. Annual Conf. Neural Information Processing Systems (NeurIPS)*
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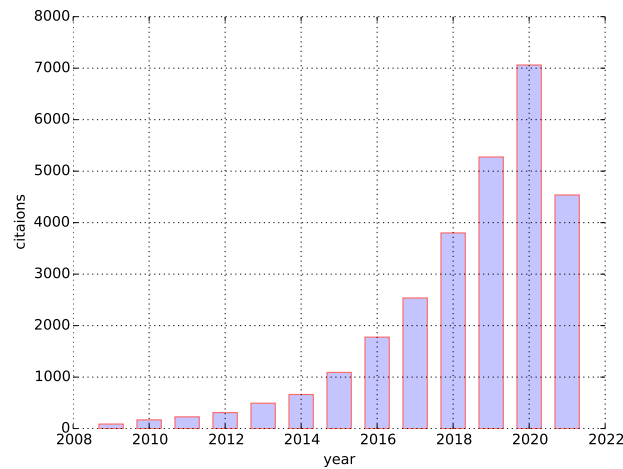


Figure 1: Google scholar citation as of 30-6-2021