

## Refereed Publications (353)

### REFEREED JOURNAL ARTICLES (143)

- 1 2021 N. Wang, Y. Gao, H. Chen, P. Wang, Z. Tian, C. Shen, Y. Zhang (2021), “NAS-FCOS: efficient search for object detection architectures”, *Int’l J. Computer Vision*.
- 2 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*.
- 3 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*.
- 4 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “Learning deep part-aware embedding for person retrieval”, *Pattern Recognition*.
- 5 L. Tian, P. Wang, G. Liang, C. Shen (2021), “An adversarial human pose estimation network injected with graph structure”, *Pattern Recognition*.
- 6 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*.
- 7 P. Wang, H. Li, C. Shen (2021), “Towards end-to-end text spotting in natural scenes”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 8 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*.
- 9 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*.
- 10 2020 G. Pang, C. Shen, L. Cao, A. van den Hengel (2020), “Deep learning for anomaly detection: a review”, *ACM Computing Surveys*.
- 11 Y. Dai, H. Lu, C. Shen (2020), “Towards light-weight portrait matting via parameter sharing”, *Computer Graphics Forum*.
- 12 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*.
- 13 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*.
- 14 Y. Zhao, Y. Liu, C. Shen, Y. Gao, S. Xiong (2020), “MobileFAN: transferring deep hidden representation for face alignment”, *Pattern Recognition*.
- 15 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*.
- 16 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*.
- 17 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*.
- 18 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*.
- 19 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*.
- 20 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*.
- 21 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*.
- 22 Y. Xie, J. Zhang, Y. Xia, C. Shen (2020), “A mutual bootstrapping model for automated skin lesion segmentation and classification”, *IEEE Trans. Medical Imaging*.
- 23 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*.
- 24 Y. Yan, Y. Huang, S. Chen, C. Shen, H. Wang (2020), “Joint deep learning of facial expression synthesis and recognition”, *IEEE Trans. Multimedia*.
- 25 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*.
- 26 D. Gong, Z. Zhang, Q. Shi, A. van den Hengel, C. Shen, Y. Zhang (2020), “Learning deep gradient

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36 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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38 P. Wang, L. Liu, C. Shen, H. Shen (2019), “Order-aware convolutional pooling for video based action recognition”, *Pattern Recognition*.

39 Z. Wu, C. Shen, A. van den Hengel (2019), “Wider or deeper: revisiting the ResNet model for visual recognition”, *Pattern Recognition*.

40 Y. Zhao, C. Shen, H. Wang, S. Chen (2019), “Structural analysis of attributes for vehicle re-identification and retrieval”, *IEEE Trans. Intelligent Transportation Systems*.

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49 T. Zhang, G. Lin, J. Cai, T. Shen, C. Shen, A. Kot (2019), “Decoupled spatial neural attention for weakly supervised semantic segmentation”, *IEEE Trans. Multimedia*.

50 G. Lin, F. Liu, A. Milan, C. Shen, I. Reid (2019), “RefineNet: multi-path refinement networks for dense prediction”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.

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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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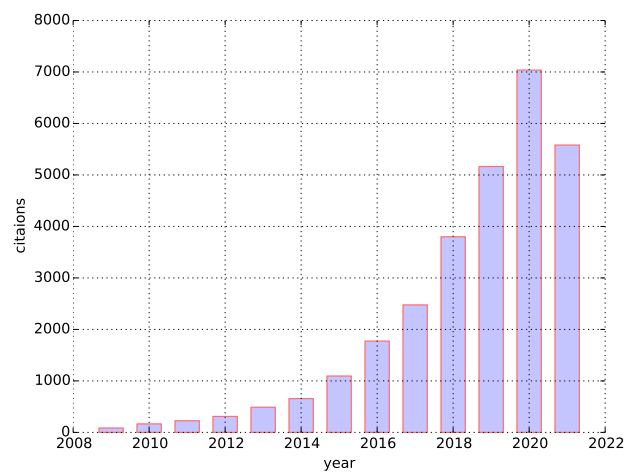


Figure 1: Google scholar citation as of 3·8·2021