

## Refereed Publications (374)

### REFEREED JOURNAL ARTICLES (156)

- 1 2022 Y. Cai, Y. Liu, C. L. Jin, Y. Li, D. Ergu (2022), “Arbitrarily shaped scene text detection with dynamic convolution”, *Pattern Recognition*.
- 2 L. Cheng, P. Fang, Y. Liang, L. Zhang, C. Shen, H. Wang (2022), “TSGB: target-selective gradient backprop for probing CNN visual saliency”, *IEEE Trans. Image Processing*.
- 3 Z. Tian, B. Zhang, H. Chen, C. Shen (2022), “Instance and panoptic segmentation using conditional convolutions”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 4 L. Sun, W. Yin, E. Xie, Z. Li, C. Sun, C. Shen (2022), “Improving monocular visual odometry using learned depth”, *IEEE Trans. Robotics*.
- 5 2021 Y. Cui, D. Guo, Y. Shao, Z. Wang, C. Shen, L. Zhang, S. Chen (2021), “Joint classification and regression for visual tracking with fully convolutional Siamese networks”, *Int’l J. Computer Vision*.
- 6 H. Zhang, Y. Li, H. Chen, C. Gong, Z. Bai, C. Shen (2021), “Memory-efficient hierarchical neural architecture search for image restoration”, *Int’l J. Computer Vision*.
- 7 Q. Yan, D. Gong, Q. Shi, A. van den Hengel, C. Shen, I. Reid, Y. Zhang (2021), “A dual-attention-guided network for ghost-free high dynamic range imaging”, *Int’l J. Computer Vision*.
- 8 C. Yu, C. Gao, J. Wang, G. Yu, C. Shen, N. Sang (2021), “BiSeNet v2: bilateral network with guided aggregation for real-time semantic segmentation”, *Int’l J. Computer Vision*.
- 9 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*.
- 10 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*.
- 11 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*.
- 12 Y. Zhao, X. Yu, Y. Gao, C. Shen (2021), “Learning discriminative region representation for person retrieval”, *Pattern Recognition*.
- 13 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “Learning deep part-aware embedding for person retrieval”, *Pattern Recognition*.
- 14 L. Tian, P. Wang, G. Liang, C. Shen (2021), “An adversarial human pose estimation network injected with graph structure”, *Pattern Recognition*.
- 15 Y. Xie, J. Zhang, Z. Liao, J. Verjans, C. Shen, Y. Xia (2021), “Intra- and inter-pair consistency for semi-supervised gland segmentation”, *IEEE Trans. Image Processing*.
- 16 J. Bian, H. Zhan, N. Wang, T. Chin, C. Shen, I. Reid (2021), “Auto-rectify network for unsupervised indoor depth estimation”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 17 X. Wang, R. Zhang, C. Shen, T. Kong, L. Li (2021), “SOLO: a simple framework for instance segmentation”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 18 Y. Liu, C. Shen, L. Jin, T. He, P. Chen, C. Liu, H. Chen (2021), “ABCNet v2: adaptive bezier-curve network for real-time end-to-end text spotting”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 19 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*.
- 20 P. Wang, H. Li, C. Shen (2021), “Towards end-to-end text spotting in natural scenes”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 21 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*.
- 22 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*.
- 23 2020 G. Pang, C. Shen, L. Cao, A. van den Hengel (2020), “Deep learning for anomaly detection: a review”, *ACM Computing Surveys*.
- 24 Y. Dai, H. Lu, C. Shen (2020), “Towards light-weight portrait matting via parameter sharing”, *Computer Graphics Forum*.
- 25 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*.
- 26 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*.

- Y. Zhao, Y. Liu, C. Shen, 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, C. Shen (2020), “[Part-guided attention learning for vehicle instance retrieval](#)”, *IEEE Trans. Intelligent Transportation Systems*.
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- 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*.
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- Y. Yan, Y. Huang, S. Chen, C. Shen, H. Wang (2020), “[Joint deep learning of facial expression synthesis and recognition](#)”, *IEEE Trans. Multimedia*.
- 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*.
- 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*.
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- 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.
- 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*.
- 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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- P. Wang, L. Liu, C. Shen, H. Shen (2019), “[Order-aware convolutional pooling for video based action recognition](#)”, *Pattern Recognition*.
- Z. Wu, C. Shen, A. van den Hengel (2019), “[Wider or deeper: revisiting the ResNet model for visual recognition](#)”, *Pattern Recognition*.
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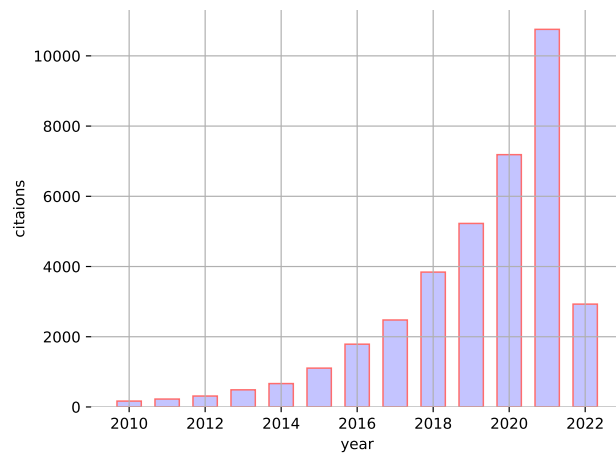


Figure 1: Google scholar citation as of 6.4.2022