

## Refereed Publications (396)

### REFEREED JOURNAL ARTICLES (163)

- 1 2023 N. Sai, J. Bockman, H. Chen, N. Watson-Haigh, B. Xu, X. Feng, A. Piechatzek, C. Shen, M. Gilliam (2023), “[SAI: an efficient and user-friendly tool for measurement of stomatal pores and density using deep computer vision](#)”, *New Phytologist*.
- 2 2022 L. Wang, H. Zhang, Q. Xiao, H. Xu, C. Shen, X. Jin (2022), “[Effective eyebrow matting with domain adaptation](#)”, *Computer Graphics Forum*.
- 3 B. Zhuang, C. Shen, M. Tan, P. Chen, L. Liu, I. Reid (2022), “[Structured binary neural networks for image recognition](#)”, *Int'l J. Computer Vision*.
- 4 Y. Cai, Y. Liu, C. L. Jin, Y. Li, D. Ergu (2022), “[Arbitrarily shaped scene text detection with dynamic convolution](#)”, *Pattern Recognition*.
- 5 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*.
- 6 T. He, C. Shen, A. van den Hengel (2022), “[Dynamic convolution for 3D point cloud instance segmentation](#)”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 7 C. Zhang, Y. Cai, G. Lin, C. Shen (2022), “[DeepEMD: differentiable earth mover's distance for few-shot learning](#)”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 8 W. Yin, J. Zhang, O. Wang, S. Niklaus, S. Chen, Y. Liu, C. Shen (2022), “[Towards accurate reconstruction of 3D scene shape from a single monocular image](#)”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 9 Z. Tian, B. Zhang, H. Chen, C. Shen (2022), “[Instance and panoptic segmentation using conditional convolutions](#)”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 10 L. Sun, W. Yin, E. Xie, Z. Li, C. Sun, C. Shen (2022), “[Improving monocular visual odometry using learned depth](#)”, *IEEE Trans. Robotics*.
- 11 X. Wang, R. Zhang, C. Shen, T. Kong (2022), “[DenseCL: a simple framework for self-supervised dense visual pre-training](#)”, *Visual Informatics*.
- 12 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*.
- 13 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*.
- 14 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*.
- 15 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*.
- 16 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*.
- 17 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*.
- 18 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*.
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- 20 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “[Learning deep part-aware embedding for person retrieval](#)”, *Pattern Recognition*.
- 21 L. Tian, P. Wang, G. Liang, C. Shen (2021), “[An adversarial human pose estimation network injected with graph structure](#)”, *Pattern Recognition*.
- 22 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*.
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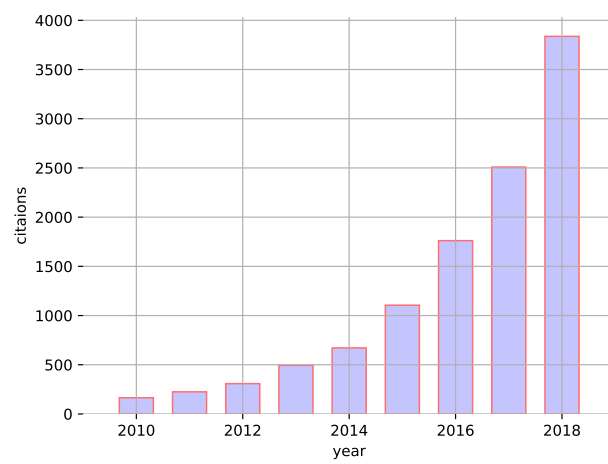


Figure 1: Google scholar citation as of 25.12.2022