

## Refereed Publications (413)

### REFEREED JOURNAL ARTICLES (167)

- 1 2023 H. Xiong, H. Lu, C. Liu, L. Liu, C. Shen, Z. Cao (2023), “From open set to closed set: supervised spatial divide-and-conquer for object counting”, *Int’l J. Computer Vision*.
- 2 Y. Xi, H. Chen, N. Wang, P. Wang, Y. Zhang, C. Shen, Y. Liu (2023), “A dynamic feature interaction framework for multi-task visual perception”, *Int’l J. Computer Vision*.
- 3 Y. Yan, Y. Shu, S. Chen, J. Xue, C. Shen, H. Wang (2023), “SPL-Net: spatial-semantic patch learning network for facial attribute recognition with limited labeled data”, *Int’l J. Computer Vision*.
- 4 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*.
- 5 J. Liu, B. Zhuang, P. Chen, C. Shen, J. Cai, M. Tan (2023), “Single-path bit sharing for automatic loss-aware model compression”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 6 2022 L. Wang, H. Zhang, Q. Xiao, H. Xu, C. Shen, X. Jin (2022), “Effective eyebrow matting with domain adaptation”, *Computer Graphics Forum*.
- 7 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*.
- 8 Y. Cai, Y. Liu, C. L. Jin, Y. Li, D. Ergu (2022), “Arbitrarily shaped scene text detection with dynamic convolution”, *Pattern Recognition*.
- 9 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*.
- 10 T. He, C. Shen, A. van den Hengel (2022), “Dynamic convolution for 3D point cloud instance segmentation”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 11 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*.
- 12 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*.
- 13 Z. Tian, B. Zhang, H. Chen, C. Shen (2022), “Instance and panoptic segmentation using conditional convolutions”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 14 L. Sun, W. Yin, E. Xie, Z. Li, C. Sun, C. Shen (2022), “Improving monocular visual odometry using learned depth”, *IEEE Trans. Robotics*.
- 15 X. Wang, R. Zhang, C. Shen, T. Kong (2022), “DenseCL: a simple framework for self-supervised dense visual pre-training”, *Visual Informatics*.
- 16 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*.
- 17 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*.
- 18 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*.
- 19 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*.
- 20 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*.
- 21 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*.
- 22 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*.
- 23 Y. Zhao, X. Yu, Y. Gao, C. Shen (2021), “Learning discriminative region representation for person retrieval”, *Pattern Recognition*.
- 24 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “Learning deep part-aware embedding for person retrieval”, *Pattern Recognition*.
- 25 L. Tian, P. Wang, G. Liang, C. Shen (2021), “An adversarial human pose estimation network injected with graph structure”, *Pattern Recognition*.
- 26 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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- 32 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*.
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- 35 Y. Dai, H. Lu, C. Shen (2020), “[Towards light-weight portrait matting via parameter sharing](#)”, *Computer Graphics Forum*.
- 36 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*.
- 37 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*.
- 38 Y. Zhao, Y. Liu, C. Shen, Y. Gao, S. Xiong (2020), “[MobileFAN: transferring deep hidden representation for face alignment](#)”, *Pattern Recognition*.
- 39 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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- 41 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*.
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- 46 Y. Xie, J. Zhang, Y. Xia, C. Shen (2020), “[A mutual bootstrapping model for automated skin lesion segmentation and classification](#)”, *IEEE Trans. Medical Imaging*.
- 47 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*.
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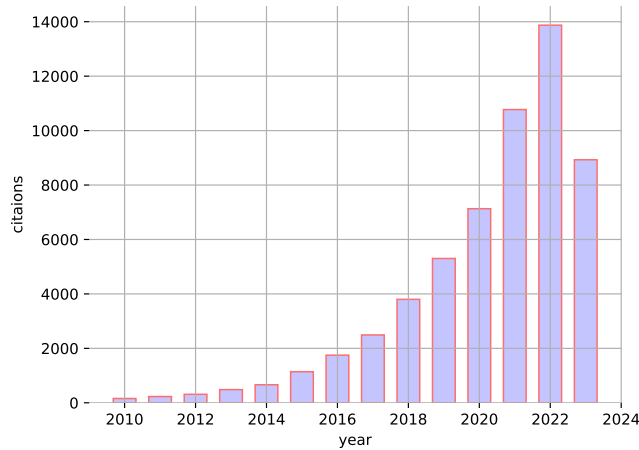


Figure 1: Google scholar citation as of 3·8·2023