

## Refereed Publications (440)

### REFEREED JOURNAL ARTICLES (180)

- 1 2024 W. Wu, C. Shen, Y. Cai, D. Zhang, Y. Fu, P. Luo, H. Zhou (2024), “End-to-end video text spotting with Transformer”, *Int’l J. Computer Vision*.
- 2 W. Yin, Y. Liu, C. Shen, B. Sun, A. van den Hengel (2024), “Scaling up multi-domain semantic segmentation with sentence embeddings”, *Int’l J. Computer Vision*.
- 3 Y. Liu, X. Wang, M. Zhu, Y. Cao, T. Huang, C. Shen (2024), “Masked channel modeling for bootstrapping visual pre-training”, *Int’l J. Computer Vision*.
- 4 K. Xian, Z. Cao, C. Shen, G. Lin (2024), “Towards robust monocular depth estimation: a new baseline and benchmark”, *Int’l J. Computer Vision*.
- 5 H. Li, J. Hu, B. Li, H. Chen, Y. Zheng, C. Shen (2024), “Target before shooting: accurate anomaly detection and localization under one millisecond via cascade patch retrieval”, *IEEE Trans. Image Processing*.
- 6 M. Hu, W. Y. C. Zhang, Z. Cai, X. Long, H. C. K. Wang, G. Yu, C. Shen, S. Shen (2024), “Metric3d v2: a versatile monocular geometric foundation model for zero-shot metric depth and surface normal estimation”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 7 R. Li, C. Zhang, Z. Wang, C. Shen, G. Lin (2024), “Self-supervised 3d scene flow estimation and motion prediction using local rigidity prior”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 8 2023 M. Lin, M. Chen, Y. Zhang, C. Shen, R. Ji, L. Cao (2023), “Super vision transformer”, *Int’l J. Computer Vision*.
- 9 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*.
- 10 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*.
- 11 B. Zhang, L. Liu, M. Phan, Z. Tian, C. Shen, Y. Liu (2023), “SegViT v2: exploring efficient and continual semantic segmentation with plain vision transformers”, *Int’l J. Computer Vision*.
- 12 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*.
- 13 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*.
- 14 L. Sun, J. Bian, H. Zhan, W. Yin, I. Reid, C. Shen (2023), “SC-DepthV3: robust self-supervised monocular depth estimation for dynamic scenes”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 15 Y. Liu, J. Zhang, D. Peng, M. Huang, X. Wang, J. Tang, C. Huang, D. Lin, C. Shen, X. Bai, L. Jin (2023), “SPTS v2: single-point scene text spotting”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 16 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*.
- 17 Y. Xie, J. Zhang, Y. Xia, C. Shen (2023), “Learning from partially labeled data for multi-organ and tumor segmentation”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 18 2022 L. Wang, H. Zhang, Q. Xiao, H. Xu, C. Shen, X. Jin (2022), “Effective eyebrow matting with domain adaptation”, *Computer Graphics Forum*.
- 19 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*.
- 20 Y. Cai, Y. Liu, C. L. Jin, Y. Li, D. Ergu (2022), “Arbitrarily shaped scene text detection with dynamic convolution”, *Pattern Recognition*.
- 21 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*.
- 22 Z. Tian, C. Shen, H. Chen, T. He (2022), “FCOS: a simple and strong anchor-free object detector”, *IEEE Trans. Pattern Analysis and Machine Intelligence* 44: 1922–1933.
- 23 T. He, C. Shen, A. van den Hengel (2022), “Dynamic convolution for 3D point cloud instance segmentation”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 24 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*.
- 25 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*.
- 26 Z. Tian, B. Zhang, H. Chen, C. Shen (2022), “Instance and panoptic segmentation using conditional

convolutions”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.

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28 X. Wang, R. Zhang, C. Shen, T. Kong (2022), “DenseCL: a simple framework for self-supervised dense visual pre-training”, *Visual Informatics*.

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30 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*.

31 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*.

32 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*.

33 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*.

34 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*.

35 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*.

36 Y. Zhao, X. Yu, Y. Gao, C. Shen (2021), “Learning discriminative region representation for person retrieval”, *Pattern Recognition*.

37 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “Learning deep part-aware embedding for person retrieval”, *Pattern Recognition*.

38 L. Tian, P. Wang, G. Liang, C. Shen (2021), “An adversarial human pose estimation network injected with graph structure”, *Pattern Recognition*.

39 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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44 P. Wang, H. Li, C. Shen (2021), “Towards end-to-end text spotting in natural scenes”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.

45 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*.

46 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*.

47 2020 G. Pang, C. Shen, L. Cao, A. van den Hengel (2020), “Deep learning for anomaly detection: a review”, *ACM Computing Surveys*.

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49 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*.

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51 Y. Zhao, Y. Liu, C. Shen, Y. Gao, S. Xiong (2020), “MobileFAN: transferring deep hidden representation for face alignment”, *Pattern Recognition*.

52 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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- 55 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*.
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- 74 J. Zhang, Q. Wu, J. Zhang, C. Shen, J. Lu, Q. Wu (2019), “Heritage image annotation via collective knowledge”, *Pattern Recognition*.
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- 78 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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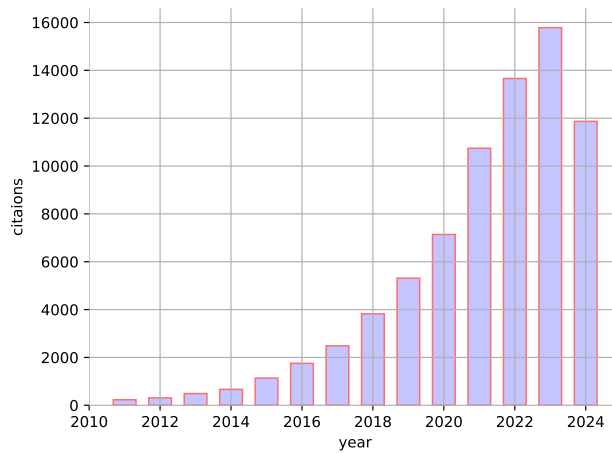


Figure 1: Google scholar citation as of 2·9·2024