

## Refereed Publications (337)

### REFEREED JOURNAL ARTICLES (137)

- 1 2021 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*.
- 2 Y. Zhao, C. Shen, X. Yu, H. Chen, Y. Gao, S. Xiong (2021), “Learning deep part-aware embedding for person retrieval”, *Pattern Recognition*.
- 3 L. Tian, P. Wang, G. Liang, C. Shen (2021), “An adversarial human pose estimation network injected with graph structure”, *Pattern Recognition*.
- 4 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*.
- 5 2020 G. Pang, C. Shen, L. Cao, A. van den Hengel (2020), “Deep learning for anomaly detection: a review”, *ACM Computing Surveys*.
- 6 Y. Dai, H. Lu, C. Shen (2020), “Towards light-weight portrait matting via parameter sharing”, *Computer Graphics Forum*.
- 7 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*.
- 8 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*.
- 9 Y. Zhao, Y. Liu, C. Shen, Y. Gao, S. Xiong (2020), “MobileFAN: transferring deep hidden representation for face alignment”, *Pattern Recognition*.
- 10 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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- 17 Y. Xie, J. Zhang, Y. Xia, C. Shen (2020), “A mutual bootstrapping model for automated skin lesion segmentation and classification”, *IEEE Trans. Medical Imaging*.
- 18 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*.
- 19 Y. Yan, Y. Huang, S. Chen, C. Shen, H. Wang (2020), “Joint deep learning of facial expression synthesis and recognition”, *IEEE Trans. Multimedia*.
- 20 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*.
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- 23 W. Liu, P. Zhang, X. Huang, J. Yang, C. Shen, I. Reid (2020), “Real-time image smoothing via iterative least squares”, *ACM Trans. Graphics*.
- 24 J. Cao, Y. Guo, Q. Wu, C. Shen, J. Huang, M. Tan (2020), “Improving generative adversarial networks with local coordinate coding”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 25 H. Lu, Y. Dai, C. Shen, S. Xu (2020), “Index networks”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
- 26 Y. Liu, C. Shun, J. Wang, C. Shen (2020), “Structured knowledge distillation for dense prediction”, *IEEE*

- 27 Y. Zhou, R. Ji, J. Su, X. Sun, D. Meng, Y. Gao, C. Shen (2020), “Plenty is plague: fine-grained learning for visual question answering”, *IEEE Trans. Pattern Analysis and Machine Intelligence*.
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- 32 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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- 34 Z. Wu, C. Shen, A. van den Hengel (2019), “Wider or deeper: revisiting the ResNet model for visual recognition”, *Pattern Recognition*.
- 35 Y. Zhao, C. Shen, H. Wang, S. Chen (2019), “Structural analysis of attributes for vehicle re-identification and retrieval”, *IEEE Trans. Intelligent Transportation Systems*.
- 36 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*.
- 37 L. Liu, H. Lu, H. Xiong, K. Xian, Z. Cao, C. Shen (2019), “Counting objects by blockwise classification”, *IEEE Trans. Circuits and Systems for Video Technology*.
- 38 W. Liu, P. Zhang, X. Chen, C. Shen, X. Huang, J. Yang (2019), “Embedding bilateral filter in least squares for efficient edge-preserving image smoothing”, *IEEE Trans. Circuits and Systems for Video Technology*.
- 39 H. Zhang, Y. Li, Y. Jiang, P. Wang, Q. Shen, C. Shen (2019), “Hyperspectral classification based on lightweight 3D-CNN with transfer learning”, *IEEE Trans. Geoscience and Remote Sensing*.
- 40 X. Wei, P. Wang, L. Liu, C. Shen, J. Wu (2019), “Piecewise classifier mappings: learning fine-grained learners for novel categories with few examples”, *IEEE Trans. Image Processing*.
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- 47 H. Li, P. Wang, M. You, C. Shen (2018), “Reading car license plates using deep neural networks”, *Image and Vision Computing*.
- 48 X. Wei, C. Zhang, J. Wu, C. Shen, Z. Zhou (2018), “Unsupervised object discovery and co-localization by deep descriptor transforming”, *Pattern Recognition*.
- 49 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*.
- 50 H. Li, P. Wang, C. Shen (2018), “Towards end-to-end car license plates detection and recognition with deep neural networks”, *IEEE Trans. Intelligent Transportation Systems*.
- 51 M. You, Y. Zhang, C. Shen, X. Zhang (2018), “An extended filtered channel framework for pedestrian detection”, *IEEE Trans. Intelligent Transportation Systems* 19: 1640–1651.
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# REFEREED TOP CONFERENCE ARTICLES IN COMPUTER VISION AND MACHINE LEARNING (132)

- *Proc. Annual Conf. Neural Information Processing Systems (NeurIPS)*
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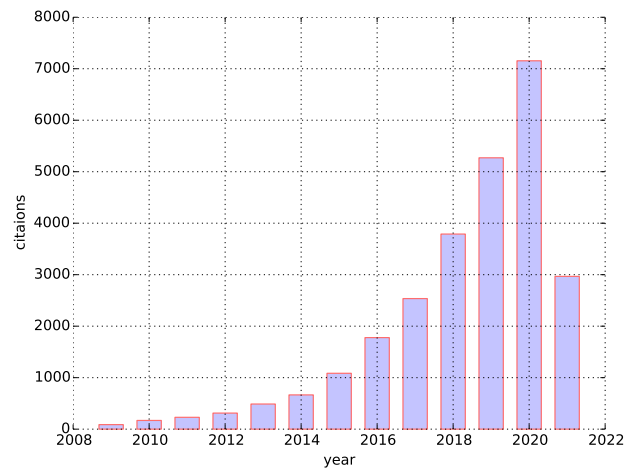


Figure 1: Google scholar citation as of 9.5.2021