





















- [29] Tymoshenko K, Moschitti A. Shallow and Deep Syntactic/Semantic Structures for Passage Reranking in Question-Answering Systems[J]. *ACM Transactions on Information Systems*, 2019, 37(1):8.1-8.38.
- [30] Guo X, Hao X, Tang Z, et al. ACE-ADP: Adversarial Contextual Embeddings Based Named Entity Recognition for Agricultural Diseases and Pests[J]. *Agriculture*, 2021, 11.
- [31] T. -N. Nguyen, C. -N. -N. Hoang, T. -S. Le and T. A. Tran, "A System for Text Extraction in Complex-Background Document Images," 2019 International Conference on Advanced Computing and Applications (ACOMP), 2019, pp. 65-69, doi: 10.1109/ACOMP.2019.00017.
- [32] Liu G, Zhang K, Lv M. ASKS: Convolution with Any-Shape Kernels for Efficient Neural Networks[J]. *Neurocomputing*, 446, 32-49, 2021.
- [33] Zhang X, Chen F, Huang R. A Combination of RNN and CNN for Attention-based Relation Classification[J]. *Procedia Computer Science*, 2018, 131:911-917.
- [34] Xiaowei Wang, Shoulin Yin, Hang Li. A Network Intrusion Detection Method Based on Deep Multi-scale Convolutional Neural Network[J]. *International Journal of Wireless Information Networks*. 27(4), 503-517, 2020.
- [35] Xiaowei Wang, Shoulin Yin, Ke Sun, Hang Li, Jie Liu and Shahid Karim. GKFC-CNN: Modified Gaussian Kernel Fuzzy C-means and Convolutional Neural Network for Apple Segmentation and Recognition [J]. *Journal of Applied Science and Engineering*, vol. 23, no. 3, pp. 555-561, 2020.
- [36] Yin, S., Li, H. GSAPSO-MQC:medical image encryption based on genetic simulated annealing particle swarm optimization and modified quantum chaos system. *Evolutionary Intelligence* (2020). doi: 10.1007/s12065-020-00440-6
- [37] A. Safaei and M. N. Mahyuddin, "Adaptive Cooperative Localization Using Relative Position Estimation for Networked Systems With Minimum Number of Communication Links," in *IEEE Access*, vol. 7, pp. 32368-32382, 2019, doi: 10.1109/ACCESS.2019.2903219.
- [38] Peng Y, Rios A, Kavuluru R, et al. Chemical-protein relation extraction with ensembles of SVM, CNN, and RNN models[J]. 2018. arXiv:1802.01255
- [39] X. Zhao, W. Li, Y. Zhang, S. Chang, Z. Feng and P. Zhang, "Aggregated Residual Dilation-Based Feature Pyramid Network for Object Detection," in *IEEE Access*, vol. 7, pp. 134014-134027, 2019, doi: 10.1109/ACCESS.2019.2941892.
- [40] R. Fan, R. Feng, L. Wang, J. Yan and X. Zhang, "Semi-MCNN: A Semisupervised Multi-CNN Ensemble Learning Method for Urban Land Cover Classification Using Submeter HRRS Images," in *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 13, pp. 4973-4987, 2020, doi: 10.1109/JSTARS.2020.3019410.
- [41] Nie W, K Wang, Liang Q, et al. Panorama based on multi-channel-attention CNN for 3D model recognition[J]. *Multimedia Systems*, 25, 655–662, 2019.
- [42] Xiao M, Liu C. Semantic relation classification via hierarchical recurrent neural network with attention [C]//*Proceedings of COLING 2016, the 26th International Conference on Computational Linguistics: Technical Papers*, 2016: 1254-1263.
- [43] Laghari A A, Laghari M A. Quality of experience assessment of calling services in social network[J]. *ICT Express*, 2021(2).
- [44] Laghari A A, Laghari K, Memon K A, et al. Quality of Experience (QoE) Assessment of Games on workstations and Mobile[J]. *Entertainment Computing*, 2020, 34:100362.
- [45] A. A. Laghari, H. He, A. Khan, N. Kumar and R. Kharel, "Quality of Experience Framework for Cloud Computing (QoC)," in *IEEE Access*, vol. 6, pp. 64876-64890, 2018, doi: 10.1109/ACCESS.2018.2865967.
- [46] Laghari, A.A., Jumani, A.K. & Laghari, R.A. Review and State of Art of Fog Computing. *Arch Computat Methods Eng* 28, 3631–3643 (2021). <https://doi.org/10.1007/s11831-020-09517-y>