**Character Recognition Techniques for Regional Languages**

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Problem Statement:

Telugu handwritten character Recognition using Zoning Features and Nearest neighbor classifier and improve the result using CNN(Convolutional Network).

Research Papers

1)

P. N. Sastry, T. R. V. Lakshmi, N. V. K. Rao, T. V. Rajinikanth and A. Wahab, "Telugu Handwritten Character Recognition Using Zoning Features," 2014 International Conference on IT Convergence and Security (ICITCS), 2014, pp. 1-4, doi: 10.1109/ICITCS.2014.7021817.

<https://ieeexplore.ieee.org/abstract/document/7021817>

2)

Dara, Raju & Panduga, Urmila. (2015). Telugu Handwritten Isolated Characters Recognition using Two Dimensional Fast Fourier Transform and Support Vector Machine. International Journal of Computer Applications. 116. 7-11. 10.5120/20330-0820.

<https://www.researchgate.net/publication/276129125_Telugu_Handwritten_Isolated_Characters_Recognition_using_Two_Dimensional_Fast_Fourier_Transform_and_Support_Vector_Machine>

3)

M. J. Hasan, M. F. Wahid and M. S. Alom, "Bangla Compound Character Recognition by Combining Deep Convolutional Neural Network with Bidirectional Long Short-Term Memory," 2019 4th International Conference on Electrical Information and Communication Technology (EICT), 2019, pp. 1-4, doi: 10.1109/EICT48899.2019.9068817.

<https://ieeexplore.ieee.org/document/9068817>

4)

M. A. Pragathi, K. Priyadarshini, S. Saveetha, A. S. Banu and K. O. Mohammed Aarif, "Handwritten Tamil Character Recognition Using Deep Learning," 2019 International Conference on Vision Towards Emerging Trends in Communication and Networking (ViTECoN), 2019, pp. 1-5, doi: 10.1109/ViTECoN.2019.8899614.

<https://ieeexplore.ieee.org/document/8899614>

5)

D. Singh, J. P. Saini and D. S. Chauhan, "Hindi character recognition using RBF neural network and directional group feature extraction technique," 2015 International Conference on Cognitive Computing and Information Processing(CCIP), 2015, pp. 1-4, doi: 10.1109/CCIP.2015.7100726.

<https://ieeexplore.ieee.org/document/7100726>

6)

T. Wakabayashi, U. Pal, F. Kimura and Y. Miyake, "F-ratio Based Weighted Feature Extraction for Similar Shape Character Recognition," 2009 10th International Conference on Document Analysis and Recognition, 2009, pp. 196-200, doi: 10.1109/ICDAR.2009.197.

<https://ieeexplore.ieee.org/document/5277736>