National Conference on Recent Advances in Engineering, Technology, Science, Management and Humanities (NCRAETSMH – 2025)

23rd February, 2025, Nagpur, Maharashtra, India.

CERTIFICATE NO : NCRAETSMH /2025/C0225152

Deep Learning Frameworks for Natural Scene Text Detection

Somnath Saha

Research Scholar, Department of Computer Science & Engineering,
Mansarovar Global University, Sehore, M.P., India.

ABSTRACT

Automatic text recognition and interpretation is now one of the main goals of computer vision, which makes finding text in real-world situations a very important task. Deep learning technology has gone a long way in the previous 10 years, and with that progress has come a lot of algorithms that try to make it easier to identify text in difficult situations. This study gives a full review of deep learning-based methods for identifying text in natural scenes, with a focus on frameworks based on regression and segmentation. In complicated real-world situations, the results show that deep learning frameworks including feature pyramid networks, recurrent layers, and adaptive post-processing reach state-of-the-art performance.

Keywords: *Deep learning, Text detection, Natural Scenes, Recall, Precision.*