Journal Name, Volume #, Issue #, Page no, Month year, DOI:….

**Title in bold**

Names of the Authors **(Only Bold Authors from PES University)**

*Department of Computer Science and Engineering, PES University, Bangalore, India*

**Abstract:**

In Times new Roman, 10.5 font

Find the below sample for your reference:

Pattern Recognition Image Analysis, Volume 30, Issue 4, 607–613, January 2021, DOI:10.1134/S1054661820040094

**Image Captioning using Reinforcement Learning with BLUDEr Optimization**

**P Rama Devi**, V Thrivikram, D Kashyap, **Shylaja S S**

*Department of Computer Science and Engineering, PES University, Bangalore, India*

**Abstract:**

Image captioning is a growing field of research that has taken hold of the research community. It is a challenging task owing to the complexity of natural language generation and the difficulty involved in feature extraction from a diverse collection of images. Many models have been proposed to tackle the problem, like state-of-the-art encoder-decoder (Sequential CNN-RNN) systems that have proved to be capable of obtaining results. Recently, Reinforcement learning has made itself the new approach to the problem and has been successful in surpassing many of the state-of-the-art paradigms. We have come up with a new reward system known as the BLUDEr metric, which is a linear combination of the non-differentiable metrics BLEU and CIDEr. We directly optimize this metric for our model, on natural language generation tasks. In our experiments, we use the Flickr30k and Flickr8k datasets, which have become two of the benchmark datasets when it comes to image captioning systems. We have achieved state-of-the-art results on these two datasets, when compared with other models.