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Fwd: The 2023 International Conference on Images, Signals, and Computing : Submission (2) has been created.

1 message

Tawsif UrRahman <urrahmantawsif@gmail.com> Wed, Sep 14, 2022 at 9:25 PM
To: md.wahidur.rahman.araf@g.bracu.ac.bd

---------- Forwarded message ---------
From: **Microsoft CMT** <email@msr-cmt.org>
Date: Mon, Aug 29, 2022, 5:03 PM
Subject: The 2023 International Conference on Images, Signals, and Computing : Submission (2) has been created.
To: <urrahmantawsif@gmail.com>

Hello,

The following submission has been created.

Track Name: ICISC2023

Paper ID: 2

Paper Title: License plate recognition using Machine Learning

Abstract:
Car owners altering license plates using different typefaces and designs violate the law that strictly forbids such behaviour. Traffic police officers claim that changing the license plates makes it impossible to read the registration numbers due to an increase in fatal street collisions and car thefts. They worry that it may
be challenging to track down vehicles used in hit-and-run incidents or other crimes may be challenging. It is challenging to impose further limitations on any algorithm used to identify and recognise license plates in a developing nation like Bangladesh. This work has the primary objective of designing a reliable detection and recognition system for transitional, standard car license plates, which are frequently seen in developing countries. Increase the effectiveness of reading license plates drawn or printed in various styles and typefaces employing cutting-edge technology, including machine learning (ML) models. For this study, You Only Look Once (YOLOv3) is used to utilising the most recent version of the object detection method. The raw image is pre-processed to increase its quality and then divided into appropriate-sized grid cells to determine where the license plate should be placed. Finally, the data is post-processed, and the accuracy of the suggested model is assessed using industry-recognised standards. A sizeable image dataset[20] was used to be tested using this proposed methodology. The presented system is expected to be essential for vehicle monitoring, parking fee collection, lowering traffic accidents, and identifying unregistered vehicles. The results demonstrate that the suggested method achieves 97.1% mAP, 95.3% precision and 96.8% in plate detection.

Created on: Mon, 29 Aug 2022 11:03:39 GMT

Last Modified: Mon, 29 Aug 2022 11:03:39 GMT

Authors:
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Primary Subject Area: Computing - Machine Learning and Intelligent Systems

Secondary Subject Areas: Computing - Data Mining and Data Engineering

Submission Files: LaTeX_template_for_preparing_a_research_article_for_submission_to_the_Journal_of_Optical_Communications_and_Networking (1).pdf (1 Mb, Mon, 29 Aug 2022 10:46:25 GMT)

Submission Questions Response:
1. Confidence of Paper

May need a revision

Thanks,
CMT team.