26th International Conference on Computer and Information Technology : Submission (331) has been created.

1 message

Microsoft CMT <email@msr-cmt.org> Fri, Sep 8, 2023 at 2:41 AM
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To: Ashraful.alam5315@gmail.com

Hello,

The following submission has been created.

Track Name: ICCITconf2023

Paper ID: 331

Paper Title: Contrail Analysis through Advanced Neural Network Architectures: Image Segmentation and Classification

Abstract:
The aviation industry’s immense expansion
is having an impact on global warming and has resulted in
some significant environmental issues. When an airplane passes
directly over them, tiny crisscross patterns, often known as contrails,
may be visible. They are to blame for this effect. Contrails
are really just airborne particles that have been compressed
with water. They are uncommon since ice can only form under
particular climatic circumstances, such as extremely cold, hot,
humid, and saturating air. Even worse, because of the cooler
climate at night, it is more dangerous because it has more time
to live. They gather heat from the sun and store it, then release
it into the atmosphere. Some experts have also warned the public
that the radiation these contrails produce may be more damaging
to the atmosphere than previously predicted. For this reason,
scientists are looking for methods to reduce these contrails by
comprehending their behaviors and patterns. Now, the proposed
study segments and classifies images of contrails acquired from
satellite data. In this study, complex neural network architectures,
including U-Net, DeepLab, Attention Mechanism, and Restnet50
with CNN, are used to segment and binary classify those
photos. These architectural frameworks will aid this research
in effectively classifying and segmenting those contrails from the
satellite images so that further research can comprehend and
observe their patterns and behaviors.

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Primary Subject Area: Artificial Intelligence

Secondary Subject Areas: Not Entered
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Submission Questions Response: Not Entered

Thanks,
CMT team.