Traffic Congestion Prediction using Deep Convolutional Neural Networks: A Color-coding Approach

By

Imrez Ishraque (180021211) Md. Sumit Hasan (180021239) Md. Sifath Al-Amin (180021319)

A Thesis Submitted to the Academic Faculty in Partial Fulfillment of the Requirements for the degree of

Bachelor of Science in Electrical and Electronic Engineering



Department of Electrical and Electronic Engineering

Islamic University of Technology (IUT)

Gazipur, Bangladesh.

June 20**2**.3

CERTIFICATE OF APPROVAL

The thesis titled "Traffic Congestion Prediction using Deep Convolutional Neural Networks: A Color-coding Approach" submitted by Imrez Ishraque (180021209), Md. Sumit Hasan (180021239) and Md. Sifath Al-Amin (180021319) has been found as satisfactory and accepted as partial fulfillment of the requirement for the degree of Bachelor of Science in Electrical and Electronic Engineering on

Approved by:

(Signature of the Supervisor)

Fuld Adm 12.6.23

Mirza Fuad Adnan

Assistant Professor

Department of Electrical and Electronic Engineering (EEE)

Islamic University of Technology (IUT)

Declaration of Authorship

This is to certify that the work presented in this thesis paper is the outcome of research carried out by the candidate under the supervision of Mirza Fuad Adnan, Assistant Professor, Department of Electrical and Electronic Engineering (EEE), Islamic University of Technology (IUT). It is also declared that neither this thesis paper nor any part thereof has been submitted anywhere else for the reward of any degree or any judgment.

Authors

Imrez Ishraque

Imrez Ishraque ID-180021211

Md. Sumit Hasan

Md. Sumit Hasan ID-180021239

Sifath Al Amin

Md. Sifath Al Amin ID-180021319