ABSTRACT

In this paper author is describing concept to control or automate green traffic signal allotment time based on congestion available at road side using Canny Edge Detection Algorithm. To implement this technique we are uploading current traffic image to the application and application will extract edges from images and if there is more traffic then there will be more number of edges with white colour and if uploaded image contains less traffic then it will have less number of white colour edges. Empty edges will have black colour with value 0. By counting number of non-zeroes white pixels we will have complete idea of available traffic and based on that we will allocate time to green signal. If less traffic is there then green signal time will be less otherwise green signal allocation time will be more.

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ABBREVIATION

GUI	Graphical User Interface
PY	Python
OPP	Object Oriented Programming
DRY	Don't Repeat Yourself
PIP	Package Installer for Python
MRO	Method Resolution Order
PEP	Python Enhancement Proposals
BDFL	Benevolent Dictator For Life
REPL	Read-Eval-Print Loop