

CONTENTS

10. INTERNET COMPUTING AND DISTRIBUTED
COMPUTING[PAGE 191 TO PAGE 214]
11. NATURAL LANGUAGE PROCESSING
.....[PAGE 215 TO PAGE 224]
12. NEURAL NETWORK AND NETWORK TECHNOLOGY
.....[PAGE 225 TO PAGE 238]
13. SOFTWARE ENGINEERING AND SOFTWARE
TECHNOLOGY[PAGE 239 TO PAGE 256]
14. PREDICTION AND TIME SERIES ANALYSIS
.....[PAGE 257 TO PAGE 263]

TRAFFIC SIGNAL CONTROL USING NEURAL NETWORK

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ABSTRACT

Controlling the traffic lights at an intersection is a tedious and difficult control challenge. Modern traffic intersections are controlled using algorithms based on decision making and serial execution, similar to any software program. This system is intended to control traffic volume depending on the numbers of cars. Traffic light controller is based on the combining fuzzy logic and neural network. Neural network is supposed to learn from the fuzzy controller output. Time taken for green light at arrival side is the neural output. Input vector has two dimensional, arrival and queue. The labeled datasets is learned software can be used at the junction for three way, four ways or five ways. This system is implemented by using c# programming language.