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I also appreciate the assistance of Mr. Paul Baggett, lecturer in the Engineering Management and Technology Department, who played a major role in securing this gift. Synchro Software LTD ...

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This book presents selected papers from the 4th Conference of the Transportation Research Group of India. It provides a comprehensive analysis of themes spanning the field of transportation encompassing economics, financial management, social equity, green technologies, operations research, big data analysis, econometrics and structural mechanics. This volume will be of interest to researchers, educators, practitioners, managers, and policy-makers world-wide.

Experimenting with technology has always contributed immensely to interesting inventions in the field of automation. With the increasing population, the demands associated to transportation needs also increase, the reason why the Transportation Engineers and the respective industries have begun to develop and implement new and innovative ways to help increase the carrying capacities of roads, decrease traffic congestion and vehicle collisions. To help stabilize this impact on the transportation system, the design and development of connected and autonomous vehicles is marking its place in the existence to combat effective traffic management. Automated Vehicle (AV) inventory proves to have fourfold impacts on the traffic flow theory. The traffic flow theory as such comprises of parameters highly influencing the way the A.V. technology is expected to work its best on the local roads. Experiments have begun as early as 1920s implementing different levels of automation with promising trails taking place simultaneously but it was during late 1980s where the first self-sufficient and truly fully autonomous car appeared on the road. The implementation of autonomous vehicle technology is used in different aspects of traffic and transportation engineering to study and deal with specific outcomes to advance the research on this technology further into complete practical application. Intersections where traffic from the minor street entering the major has always been a serious cause of congestion, queue, delays and safety concern. In this research, it is specifically studied and analyzed, the major difference an intersection can experience by including autonomous vehicles in the flow that prove to provide more gaps for the merging traffic from the minor street with absolutely zero interference to the existing traffic flow, maintaining higher safety throughout the operation. The A.V.'s were introduced in the major street as different percentages to study the increasing gaps created for the traffic in the minor as such. Besides explaining the theoretical approach to the application of this scenario, the described intersection was built as a model in VISSIM simulation software where programming part was done using VISSIM's API (Application programming interface) using the C++ Visual Studio and a connection to the VISSIM was accomplished through the C2X application that has its coding done in Python Script. The C2X is the application that enabled to control the speed and position of the A.V.'s so the logic could be built and studied. The simulation in VISSIM was run and the results showed improved delay time and queue length. The exact scenario was modelled in Synchro 5, a traffic simulation software, to study the percentage changes in the capacity and control delay. To summarize, there was a great improvement for the intersection study with the inclusion of A. V's for the betterment of effective traffic management. However, further research is always recommended to study and apply similar logics to model multiple intersections to enhance implementation.

This handbook of urban transportation planning presents case studies detailing 40 best practices from 33 states in the U.S. and 19 countries on six continents. Cities around the world have improved transportation options for their citizens. Roadways have seen the addition of walkways and bicycle lanes, and light-rail transit systems have reduced street traffic. These cities have decreased reliance on personal cars and enhanced their urban environments by reducing congestion, pollution, and the number and width of roadways. This volume discusses the dynamic field of urban transportation planning and provides resources for planning professionals and public officials interested in obtaining additional information on the latest trends.

Imagine a bus system that is fast, frequent, and reliable--what would that change about your city? Buses can and should be the cornerstone of urban transportation. They offer affordable mobility and can connect citizens with every aspect of their lives. But in the US, they have long been an afterthought in budgeting and planning. Transit expert Steven Higashide uses real-world stories of reform to show us what a successful bus system looks like. Higashide explains how to marshal the public in support of better buses and argues that better bus systems will create better cities for all citizens. With a compelling narrative and actionable steps, Better Buses, Better Cities describes how decision-makers, philanthropists, activists, and public agency leaders can work together to make the bus a win in any city.

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