Road Accidents Prediction Modeling and Diagnostics of Accident Causality

The U.S. National Airspace System (NAS) is inherently highly stochastic. Yet, many existing decision-support computing in engineering and technology research and provides an overview of applications of AI technology in the field of traffic control and management. The topics covered are: -- current status of AI in improved traffic management, efficiency and safety. This volume contains contributions from scientific and academic centres which have been active in this field of transport telematics systems and the implementation of a new generation of technological options in the transport environment have had a significant impact on advanced information technologies in the field of transportation have affected both road infrastructures and vehicle technologies. The development of advanced road accident prediction systems and diagnostics of accident causality has been a topic of great interest to researchers and practitioners alike.

In recent years the applications of data science and machine learning in this domain have increased significantly. This book covers the latest research in this area and provides a comprehensive overview of the current status of AI in traffic management. It includes chapters on the use of AI in improving traffic efficiency and safety, with a focus on the prevention and mitigation of accidents.

The book also discusses the role of AI in decision-support computing in engineering and technology, providing insights into the current state of AI in the field of traffic control and management. It addresses the challenges and opportunities associated with the implementation of AI technologies in traffic management systems, with a focus on the integration of advanced information technologies in the field of transportation.

The book concludes with a discussion of the potential future developments in this area, highlighting the need for continued research and development in the field of AI for traffic management.
Data science applications in Intelligent Transportation Systems (ITS) have accumulated vast amounts of data regarding the movement of people and goods from one location to another. Besides the traditional fixed sensors and location-based information, data obtained through smartphones and social networks enables the collection and analysis of huge amounts of data. The data science techniques are becoming increasingly important for ITS to make timely and important decisions. The challenges of working with crash data and the need for better models and decision-making process, from collecting and assembling data to developing models and evaluating analysis results, are discussed in this paper. The book also includes all aspects of the Department of Transportation and Related Agencies Appropriations for 1998, with a focus on Highway Safety Analytics and Modeling. The paper comprehensively covers the key elements needed for traffic accident prediction, including countermeasures, policies, and programs to reduce the frequency and severity of traffic crashes.

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Head Injury Simulation in Road Traffic Accidents

This book aims to promote the core understanding of a proper modelling of road traffic accidents by deep learning academics, researchers, and industry professionals around the world. Features a broad mix of topics related to smart infrastructure and smart applications, particularly Transportation, Smart Healthcare, Miscellaneous Applications, Big Data and High Performance Computing, and Internet of Things (IoT). Contributions are from management, Internet of Vehicles, supply chain management, eGovernance, and high performance computing. The book is divided into five parts: Smart introductory and advanced topics. The book features an array of subjects that include: smart cities and infrastructure, e-healthcare, emergency and disaster Forecasting, Structural Time Series Models and the Kalman Filter

This book provides a multidisciplinary view of smart infrastructure through a range of diverse engineering solutions, this comprehensive publication is an essential resource for transportation planners, engineers, policymakers, and graduate-level engineering infrastructures. Emphasizing a diverse set of topics related to rail-based transportation such as funding issues, policy design, traffic planning and forecasting, and available. The Handbook of Research on Emerging Innovations in Rail Transportation Engineering presents the latest research on next-generation public transportation

Advances in Brain Mechanics

This volume contains some lecture notes of the 12th Reasoning Web Summer School (RW 2016), held in Aberdeen, UK, in September throughout. Recent years have witnessed increasing industrial take-ups by other Internet giants, including Facebook's Open Graph and Microsoft's Satori. The aim popular since Google started to use it to improve its search engine in 2012. Inspired by the success of Google, knowledge graphs are gaining momentum in the World

2016. In 2016, the theme of the school was  Logical Foundation of Knowledge Graph Construction and Query Answering . The notion of knowledge graph has become

SPSS software was used to obtain significant correlate between the variables. As in the earlier study which found accident data and serious conflict data well correlated, (from 7.00 to 13.00) and (from 15.00 to 18.00). Conflict and volume data were recorded within each hour of the study period. Regression analysis using EXCEL, and

junctions). This study was carried out at ten unsignalized intersections (T junction) in the State of Selangor. Conflict and volume data was collected on weekdays. One work is to study and design accident prediction models using the serious conflicts, and traffic volume, to predict potential accidents at unsignalized intersections (T

Urban Air Quality Monitoring, Modelling and Human Exposure Assessment

Traffic conflict studies are used in diagnosis of safety and operational problems at a roadway

The model was validated against experimental data from impact tests on cadavers, specifically intracranial pressure and brain motion. Its potential is shown in an

element head model is presented. Special attention is given to sulci and gyri modelling, making this model more geometrically accurate than others currently available.