Intelligent Transportation Systems Functional Design for Effective Traffic Management

Intelligent Freeway Traffic Control Systems: Intelligent Traffic Control Systems Functional Design for Effective Traffic Management. It discusses the principles and techniques for designing effective traffic control systems in urban and rural areas. The book is divided into two parts: the first part deals with the design of traffic control systems for urban areas, while the second part focuses on the design of traffic control systems for rural areas. Each part includes several chapters that cover different aspects of traffic control, such as signal timing, traffic flow analysis, and traffic flow simulation. The book provides a comprehensive overview of the latest research and developments in the field of intelligent traffic control systems and is a valuable resource for researchers, practitioners, and graduate students.

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Intelligent Transportation Systems (ITS) is a field of study that focuses on the development and implementation of intelligent technologies and systems for transportation. ITS is important because it has the potential to improve the efficiency and safety of transportation systems, reduce congestion, and increase the overall quality of life for people. There are many different types of ITS, including traffic management systems, intelligent collision avoidance systems, intelligent speed adaptation systems, and intelligent public transportation systems. ITS is a multidisciplinary field that draws upon knowledge from many different areas, including computer science, engineering, economics, and social sciences.

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Final System Design Document - 2009

The Next Generation 9-1-1 (NG9-1-1) is a research and development project funded by the US Department of Transportation (USDOT) to define the framework and plan to deploy Internet Protocol (IP) based emergency communications across the nation. The project has helped to define the concept of operations, functional requirements, and system architecture, and to develop a transition plan that considers implementation costs, values, and risks.

National Intelligent Transportation Systems Program Plan - Five-Year Horizon - 2008

IEEE International Conference on Intelligent Transportation Systems Proceedings - 2003

Green Intelligent Transportation Systems - 2018-09-15

These proceedings collect selected papers from the 8th International Conference on Green Intelligent Transportation Systems and Safety held in Changchun on July 1-2, 2017. The selected works, which include state-of-the-art studies, are intended to promote the development of green mobility and intelligent transportation technology to achieve interconnectivity, resource sharing, flexibility, and higher efficiency. They offer valuable insights for researchers and engineers in the fields of Transportation Technology and Traffic Engineering, Automotive and Mechanical Engineering, Industrial and Systems Engineering, and Electrical Engineering.

Computers in Railways XVII - 2020-09-07

It is important to continue to update the use of advanced systems by promoting general awareness throughout the management, design, manufacture and operation of railways and other emerging passenger, freight and transit systems. Originating from presentations at the 17th International Conference on Railway Engineering Design and Operation, this volume contains selected research works on the topic. The included papers help to facilitate the use of advanced systems and place a key focus on the applications of computer systems in advanced railway engineering. These research studies will be of interest to all those involved in the development of railways, including managers, consultants, railway engineers, designers of advanced traffic control systems, and computer specialists.


Ongoing advancements in modern technology have led to significant developments in intelligent systems. With the numerous applications available, it becomes imperative to conduct research and make further progress in the field. Intelligent Systems: Concepts, Methodologies, Tools, and Applications contains a compilation of the latest academic material on the latest breakthroughs and recent progress in intelligent systems. Including advanced studies on information retrieval, artificial intelligence, and software engineering, this multi-volume book is an ideal source for researchers, professionals, academicians, upper-level students, and practitioners interested in emerging perspectives in the field of intelligent systems.


This handbook, which was developed in recognition of the need for the compilation and dissemination of information on advanced traffic control systems, presents the basic principles for the planning, design, and implementation of traffic systems for various cities and towns. The presentations contain new procedures that have been developed from the viewpoint of systems engineering. Traffic control studies are discussed, and traffic control and surveillance concepts are examined. Hardware components are examined, and computer control, and communication concepts are studied. Local and central control and surveillance are described, as well as traffic police, origin and destination studies, and other information systems. Available systems technology and candidate system definitions, evaluation and implementation are also covered. The management of traffic control systems is discussed.