

Automatic Railway Gate Control Using Microcontroller

The British National Bibliography Arthur James Wells 2000

Automatic Train Control American Railway Association. Committee on Automatic Train Control 1929

Machine Intelligence and Emerging Technologies Md. Shahriare Satu 2023-06-10 The two-volume set LNICST 490 and 491 constitutes the proceedings of the First International Conference on Machine Intelligence and Emerging Technologies, MIET 2022, hosted by Noakhali Science and Technology University, Noakhali, Bangladesh, during September 23-25, 2022. The 104 papers presented in the proceedings were carefully reviewed and selected from 272 submissions. This book focuses on theoretical, practical, state-of-art applications, and research challenges in the field of artificial intelligence and emerging technologies. It will be helpful for active researchers and practitioners in this field. These papers are organized in the following topical sections: imaging for disease detection; pattern recognition and natural language processing; bio signals and recommendation systems for wellbeing; network, security and nanotechnology; and emerging technologies for society and industry.

Proceedings of Third International Conference on Communication, Computing and Electronics Systems V. Bindhu 2022-03-19 This book includes high quality research papers presented at the International Conference on Communication, Computing and Electronics Systems 2021, held at the PPG Institute of Technology, Coimbatore, India, on 28-29 October 2021. The volume focuses mainly on the research trends in cloud computing, mobile computing, artificial intelligence and advanced electronics systems. The topics covered are automation, VLSI, embedded systems, optical communication, RF communication, microwave engineering, artificial intelligence, deep learning, pattern recognition, communication networks, Internet of Things, cyber-physical

systems, and healthcare informatics.

Index to IEEE Publications Institute of Electrical and Electronics Engineers 1977 Issues for 1973- cover the entire IEEE technical literature.

Science Abstracts 1993

Soft Computing and Signal Processing V. Sivakumar Reddy 2023-06-26 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Fifth International Conference on Soft Computing and Signal Processing (ICSCSP 2022). The book covers topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning and discusses various aspects of these topics, e.g., technological considerations, product implementation and application issues.

Advancements in Instrumentation and Control in Applied System Applications Bhattacharya, Srijan 2020-03-27 As technology continues to advance in today's global market, practitioners are targeting systems with significant levels of applicability and variance. Instrumentation is a multidisciplinary subject that provides a wide range of usage in several professional fields, specifically engineering. Instrumentation plays a key role in numerous daily processes and has seen substantial advancement in recent years. It is of utmost importance for engineering professionals to understand the modern developments of instruments and how they affect everyday life. Advancements in Instrumentation and Control in Applied System Applications is a collection of innovative research on the methods and implementations of instrumentation in real-world practices including communication, transportation, and biomedical systems. While highlighting topics including smart sensor design, medical image processing, and atrial fibrillation, this book is ideally designed for researchers, software engineers, technologists, developers, scientists, designers, IT professionals, academicians, and post-graduate students

seeking current research on recent developments within instrumentation systems and their applicability in daily life.

Electrical & Electronics Abstracts 1988

Automatic Unmanned Railway Gate Control Using Solar and

Object Sensor Kalaivani M 2019 This paper discusses about solar based automatic unmanned railway gate using object sensor was used to avoid accident both on the gate and on the track. It consists of two IR sensors and by using those sensors the accident was avoided in the gate. If the vehicle got struck on the railway track during the closing of railway gate, the ultrasonic wave travel and touches the body of the object and reflected back. The reflected waves are received by the receiver on the train; the distance was measured and displayed on the digital display to the train driver. By using above formula the distance of the object from train was calculated and by using that accident was avoided. Ultrasonic waves it travel very fast in air medium which is 0.0004 rays.

Proceedings of Fifth International Conference on Computing, Communications, and Cyber-Security Sudeep Tanwar 2024-07-30 This book features selected research papers presented at the Fifth International Conference on Computing, Communications, and Cyber-Security (IC4S'05), organized in India, during 29 February to 1 March, 2024. The conference was hosted at SMVDU, Katra, J&K, India . It includes innovative work from researchers, leading innovators, and professionals in the areas of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues. The work is presented in two volumes.

Big Data Management and the Internet of Things for Improved

Health Systems Mishra, Brojo Kishore 2018-01-19 Because of the increased access to high-speed Internet and smart phones, many patients have started to use mobile applications to manage various health needs. These devices and mobile apps are now increasingly used and integrated with telemedicine and telehealth via the medical Internet of Things (IoT). Big Data Management and the Internet of Things for Improved Health Systems is a critical scholarly resource that examines the digital

transformation of healthcare. Featuring coverage on a broad range of topics, such as brain computer interface, data reduction techniques, and risk factors, this book is geared towards academicians, practitioners, researchers, and students seeking research on health and well-being data.

Automatic Railway Gate Control Using Arduino Microcontroller 2012

Automatic Spillway Gates Controlling. Real Time Monitoring

Using Radio Frequency Muhammad Junaid 2015-02-10 Research Paper (postgraduate) from the year 2015 in the subject Engineering - Power Engineering, grade: N/A, , course: Electrical Power Engineering, language: English, abstract: The main objective of this Research project is to build such a prototype system which can control and monitor the flow of water from water reservoir. This new system uses microcontroller as a central part to sense the water through a NAND gate Integrated Circuit and inform the microcontroller. On the basis of gathered results the controller will open the solenoid valve and also will send the information to the main unit. On the main unit side this information will be displayed on the LCD (Liquid Crystal Display). Where for real time monitoring a wireless camera is used which sends the real time video to the receiver side through RF (Radio Frequency) module.

Inventive Communication and Computational Technologies G.

Ranganathan 2020-09-24 This book gathers selected papers presented at the 4th International Conference on Inventive Communication and Computational Technologies (ICICCT 2020), held on 28-29 May 2020 at Gnanamani College of Technology, Tamil Nadu, India. The respective contributions highlight recent research efforts and advances in a new paradigm called ISMAC (IoT in Social, Mobile, Analytics and Cloud contexts). The topics covered include the Internet of Things, Social Networks, Mobile Communications, Big Data Analytics, Bio-inspired Computing and Cloud Computing. Given its scope, the book is chiefly intended for academics and practitioners working to resolve practical issues in this area.

Design and Implementation of a Parking Gate Controller Using

Atmega3289 Microcontroller Pruthviraja Bhupal 2017 The objective of this project is to design a cost effective Parking gate controller for a sliding gate. Atmel based microcontroller is used to control the whole operation. The parking gate controller system has to auto detect the automobile and open the gate if it is moving out of the parking lot or use a RF remote to open the gate. If the automobile is moving inside the parking lot, then RF remote is used to control the gate operation. An obstacle sensor is used to detect the presence of the obstacles in the way of the gate. When the gate is closing from an open position and if there is any obstacle in its way then the obstacle sensor detects it, the controller opens the gate. The system is designed using Arduino microcontroller embedded system and the design is done using its Integrated Development Environment and embedded C. The design presented in this project is flexible for any of the microcontroller family not just restricting it to the Arduino embedded system. Easy installation and working procedure are explained in this project.

Security Issues in Communication Devices, Networks and Computing Models Budati Anil Kumar 2025-05-08 The importance of addressing security issues in communication devices, networks, and computing models in Industry 5.0 cannot be overstated. Industry 5.0 represents the next phase in the evolution of manufacturing and industrial processes, characterized by increased connectivity, automation, and the integration of smart technologies. Here are several reasons why security is crucial in this context: Industry 5.0 involves the convergence of information technology (IT) and operational technology (OT), making industrial control systems susceptible to cyber threats. A breach in security could compromise critical infrastructure such as power grids, transportation systems, and water treatment plants. Securing computing models and networks is vital for protecting critical infrastructure and ensuring the safety and stability of essential services. Industry 5.0 encourages the use of advanced technologies such as the Industrial Internet of Things (IIoT) and edge computing, leading to increased data exchange and collaboration. Security issues could result in the theft or manipulation of intellectual property, proprietary designs,

and sensitive business information. Robust security measures are necessary to safeguard intellectual property, maintain a competitive edge, and foster innovation within Industry 5.0 ecosystems. Communication devices and networks in Industry 5.0 transmit vast amounts of sensitive data, including production data, supply chain information, and operational metrics. Ensuring the integrity and confidentiality of this data is crucial for informed decision-making and maintaining a competitive advantage. Security breaches could lead to data manipulation, unauthorized access, and exposure of sensitive information, jeopardizing the trust of stakeholders and partners. Industry 5.0 involves interconnected supply chains, where multiple entities collaborate and share data. Weaknesses in communication devices and networks can be exploited to compromise the integrity of the entire supply chain, impacting product quality and safety. Securing communication channels and computing models is vital for maintaining the trustworthiness of the supply chain, ensuring product quality, and minimizing the risk of counterfeit components. In summary, addressing security issues in communication devices, networks, and computing models is fundamental to the successful implementation of Industry 5.0. It not only protects the assets and operations of organizations but also contributes to the overall safety, reliability, and sustainability of advanced industrial systems.

Predicasts F & S Index United States Predicasts, inc 1992 A comprehensive index to company and industry information in business journals.

Automatic Railway System Mohamed Mostafa Abdel Aziz Mohamed 2015-02-11 Automatic Railway System The main idea of project is to control the railway system automatically by: 1 - Controlling the closings and openings of the crossings. 2 - Controlling the stopping of the train at the station. 3 - Controlling the switching of the tracks. 4 - Avoiding human's errors during controlling the system. Problem Definition - Access to solve the problem of train accidents. - Access to Complete Security System. - Making the human element of monitoring only. - Access to avoid human mistakes. Targets of the Project 1- Eliminate the

High number of trains Accidents. 2- Reduce the number of killed people in these accidents. 3- Regularity of trains timing. 4- Solve the railway problems.

GPS World 1997

Automatic Railway Gate Control Using Microcontroller

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