

Automatic Dam Gate Control Using Microcontroller

Opportunities for Remote Control of Dam Gates United States.

Army. Corps of Engineers. St. Paul District 1997

Water Management and Sustainability in Asia Nor Eliza Alias 2021-07-12

Water Management and Sustainability in Asia covers topics related to water resources management, including multi- and interdisciplinary research on flood, soil infiltration, contaminants, sediment, water quality, hydrological modelling, and water resources systems.

Engineering and Design: Lock and Dam Gate Operating and Control

Systems (Engineer Manual Em 1110-2-2610) 2004-04-01 This manual provides guidance for the mechanical and electrical design of navigation lock and spillway gate operating and control systems for both new construction and the rehabilitation of existing projects. Operation, maintenance and inspection information as it relates to equipment design and layout, is also provided.

International Conference on Signal, Machines, Automation, and

Algorithm Hasmat Malik 2024-12-18 This book is a set of best quality peer-reviewed innovative research papers from the International Conference on Signals, Machines, Automation and Algorithm (SIGMAA 2023), held at Shoolini University, India, during 15-16 December 2023 in hybrid mode. This book has originality of work with the innovative ideas regarding artificial intelligence (AI) and its applications in the field of communication, computing, and power technologies.

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.

Technology, Business, Innovation, and Entrepreneurship in

Industry 4.0 Teresa Guarda 2022-12-15 This book presents the most recent innovations, trends, and challenges in several aspects of Industry 4.0, including the key technologies and business impacts. The book is relevant to a variety of stakeholders due to Industry 4.0's broad impact in many fields. Topics include digital workplace solutions for employee engagement, entrepreneurship and innovation, and Blockchain for business security. The authors cover Industry 4.0 both from a theoretical and applicable standpoint.

Recent Advancements in Sustainable Agricultural Practices Yasheshwar

2024-08-13 This book is a guide to achieving optimal crop yield while ensuring the sustainable and efficient use of water resources. It delves into critical topics such as irrigation water management, global and regional climate variability and change, food security, water pollution, soil erosion, and fertility loss. With the growing stress on water resources, the emphasis needs to be on environmentally friendly alternatives, including cutting-edge solutions like AI-based approaches, sensor-driven automation systems, and the integration of IoT in irrigation automation. This book collates information and analyzes current challenges in agriculture but also proposes innovative solutions, particularly in the context of the interconnected factors of water, crops, and climate change. By offering insights and strategies, it aims to guide the development of a water-wise, sustainable agriculture system that ensures the safety and well-being of future generations. This book is a valuable resource for anyone involved in agriculture and related fields, providing knowledge and tools to create a resilient and efficient food system. The target audience is diverse, ranging from farmers and students to researchers, scientists, irrigation practitioners, decision-makers, professors, and policymakers.

Electrical & Electronics Abstracts 1997

The Engineering Index Annual 1992 Since its creation in 1884,

Engineering Index has covered virtually every major engineering innovation from around the world. It serves as the historical record of virtually every major engineering innovation of the 20th century. Recent content is a vital resource for current awareness, new production information, technological forecasting and competitive intelligence. The world's most comprehensive interdisciplinary engineering database, Engineering Index contains over 10.7 million records. Each year, over 500,000 new abstracts are added from over 5,000 scholarly journals, trade magazines, and conference proceedings. Coverage spans over 175 engineering disciplines from over 80 countries. Updated weekly.

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.

ICASISSET 2020 Mahalingam Sundhararajan 2021-01-27 We are

delighted to introduce the proceedings of the first edition of the 2020 European Alliance for Innovation (EAI) International Conference on Advanced Scientific Innovation in Science, Engineering and Technology. This conference has brought innovative academics, industrial experts researchers, developers and practitioners around the world in the field of Science, Engineering and Technology to a common forum. The technical program of ICASISSET 2020 consisted of 97 full papers, including 6 invited papers in oral presentation sessions at the main conference tracks. The conference tracks were: Innovative Computing, Advanced innovation technology in Communication, Industry automation, hydrogen hybrid machine, computing in medical applications, Image processing and Internet of Things (IoT) and application. Aside from the high-quality technical paper presentations, the technical program also featured two keynote speeches, one invited talk and two technical workshops. The two keynote speeches were Dr. Hoshang Kolivand, Senior Lecturer, Liverpool John moores University, United Kingdom and Dr. Sheldon Williamson from Canada Research Chair in Electric Energy Storage Systems for Transportation Electrification and Professor in the Department of Electrical, Computer and Software Engineering, Ontario Tech University. The two workshops organized were in the topics of Machine learning and Industrial applications. The workshop aimed to gain insights into key challenges, understanding and design criteria of employing recent technologies to develop and implement computational techniques and applications.

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.

Fern Ridge Dam Automatic Spillway Gate Control United States.

Army. Corps of Engineers. Portland District 1940

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