



# Smart Irrigation

Automatic Irrigation system

# Micro Controller Based Automated Irrigation System

**Sachi Nandan Mohanty, Jyotir Moy  
Chatterjee, Suneeta Satpathy**



## **Micro Controller Based Automated Irrigation System:**

**Fertigation Technologies for Micro Irrigated Crops** Megh R. Goyal, Lala I. P. Ray, 2021-06-14 This new volume addresses the global water crisis by presenting new ways to use irrigation water judiciously through innovative fertigation management. It looks at the research and review work done throughout the world on micro irrigation and the techno-economic feasibility of various fertigation irrigation water management systems. Taking a multidisciplinary perspective, the chapters look at using fertigation to increase the effectiveness of irrigation systems, crop performance evaluation of various crops under fertigation and irrigation methods, estimating levels of crop requirements, scheduling of fertigation and irrigation, new fertigation equipment, and technology cost components of the various irrigation and fertigation systems. **Intelligent Technologies for Research and Engineering** S. Kannadhasan, R. Nagarajan, Alagar Karthick, K. K. Saravanan, Kaushik Pal, 2024-07-12 This volume explores diverse applications for automated machine learning and predictive analytics. The content provides use cases for machine learning in different industries such as healthcare, agriculture, cybersecurity, computing, and transportation. Key highlights of this volume include topics on engineering for underwater navigation and computer vision for healthcare and biometric applications. Chapters 1-4 delve into innovative signal detection, biometric authentication, underwater AUV localization, and COVID-19 face mask detection. Chapters 5-9 focus on wireless pH sensing, differential pattern identification, economic considerations in off-grid hybrid power, high optimization of image transmission, and ANN-based IoT bot traffic detection. Chapters 10-12 cover mixed signal VLSI design, pre-placement 3D floor planning, and bio-mimic robotic fish. Finally, Chapters 13 and 14 explore underwater robotic fish and IoT-based automatic irrigation systems, providing a comprehensive overview of cutting-edge technological advancements. The book is a resource for academics, researchers, educators, and professionals in the technology sector who want to learn about current trends in intelligent technologies. **Internet of Things and Its Applications** Sachi Nandan Mohanty, Jyotir Moy Chatterjee, Suneeta Satpathy, 2021-11-25 This book offers a holistic approach to the Internet of Things (IoT) model, covering both the technologies and their applications, focusing on uniquely identifiable objects and their virtual representations in an Internet-like structure. The authors add to the rapid growth in research on IoT communications and networks, confirming the scalability and broad reach of the core concepts. The book is filled with examples of innovative applications and real-world case studies. The authors also address the business, social, and legal aspects of the Internet of Things and explore the critical topics of security and privacy and their challenges for both individuals and organizations. The contributions are from international experts in academia, industry, and research. *AI-Based Services for Smart Cities and Urban Infrastructure* Lyu, Kangjuan, Hu, Min, Du, Juan, Sugumaran, Vijayan, 2020-09-04 Cities are the next frontier for artificial intelligence to permeate. As smart urban environments become possible, probable, and even preferred, artificial intelligence offers the chance for even further advancement through infrastructure and industry, boosting opportunity overflows but without thorough research to guide a

complicated development and implementation process urban environments can become disorganized and outright dangerous for citizens AI Based Services for Smart Cities and Urban Infrastructure is a collection of innovative research that explores artificial intelligence AI applications in urban planning In addition the book looks at how the internet of things and AI can work together to enable a real smart city and discusses state of the art techniques in urban infrastructure design construction operation maintenance and management While highlighting a broad range of topics including construction management public transportation and smart agriculture this book is ideally designed for engineers entrepreneurs urban planners architects policymakers researchers academicians and students

*The Smart Cyber Ecosystem for Sustainable Development* Pardeep Kumar,Vishal Jain,Vasaki Ponnusamy,2021-09-08 The Smart Cyber Ecosystem for Sustainable Development As the entire ecosystem is moving towards a sustainable goal technology driven smart cyber system is the enabling factor to make this a success and the current book documents how this can be attained The cyber ecosystem consists of a huge number of different entities that work and interact with each other in a highly diversified manner In this era when the world is surrounded by many unseen challenges and when its population is increasing and resources are decreasing scientists researchers academicians industrialists government agencies and other stakeholders are looking toward smart and intelligent cyber systems that can guarantee sustainable development for a better and healthier ecosystem The main actors of this cyber ecosystem include the Internet of Things IoT artificial intelligence AI and the mechanisms providing cybersecurity This book attempts to collect and publish innovative ideas emerging trends implementation experiences and pertinent user cases for the purpose of serving mankind and societies with sustainable societal development The 22 chapters of the book are divided into three sections Section I deals with the Internet of Things Section II focuses on artificial intelligence and especially its applications in healthcare whereas Section III investigates the different cyber security mechanisms Audience This book will attract researchers and graduate students working in the areas of artificial intelligence blockchain Internet of Things information technology as well as industrialists practitioners technology developers entrepreneurs and professionals who are interested in exploring designing and implementing these technologies

**Recent Developments in Electrical and Electronics Engineering** Poonam Singhal,Sakshi Kalra,Bhim Singh,R. C. Bansal,2023-04-28 This book contains cutting edge research content presented by researchers engineers developers and practitioners from academia and industry at the International Conference on Recent Developments in Electrical and Electronics Engineering ICRDEEE 2022 The materials in the book include theory and applications for different areas of Electrical and Electronics Engineering The topics covered include power systems and protection energy electric vehicles smart grid semiconductor technologies electrical machines and drives control systems with artificial intelligence etc The content is useful for researchers professionals and academicians in understanding current research trends findings and future scope of research in electrical and electronics engineering models

**Evolution and Advances in Computing**

**Technologies for Industry 6.0** C. Kishor Kumar Reddy, Srinath Doss, Surbhi Bhatia Khan, Abdulmajeed

Alghatani, 2024-12-19 This book provides a comprehensive exploration of Industry 6.0 which marks the convergence of intelligent systems machine learning ML deep learning and human robot collaboration HRC in various sectors It focuses on how these technologies enable businesses to harness insights from vast datasets optimize operations forecast maintenance requirements and mitigate outages In this comprehensive book the authors cover the major aspects of Industry 6.0 including the latest advances in technology new applications and the many challenges that accompany the process that is changing it This book acts as a compass guiding readers through the labyrinth of Industry 6.0 revealing the complex interactions between technologies new applications innovations and business ecosystems From a multidisciplinary perspective the book explores the far reaching impact of Industry 6.0 on the business world revealing its potential to increase productivity improve decision making and open new opportunities for development Discusses the transformative impact of Industry 6.0 driven by the convergence of artificial intelligence AI ML and the industrial internet of things IIoT in manufacturing Explores the transformative potential of HRC in modern manufacturing emphasizing the ability of HRC to boost productivity flexibility and safety Compares several service models in cloud computing with a focus on private public and community cloud deployment methods Presents information about autism spectrum disorder ASD in children and the advanced technology of convolutional neural networks used to detect autism in children Describes the accurate diagnosis of Alzheimer's disease through integrating state of the art technologies especially deep learning Focuses on digital adaptation in India's agricultural sector especially Uttar Pradesh highlighting challenges and prospects Presents a visionary leap into Agriculture 6.0 where technology and tradition converge for sustainable farming solutions Provides the mitigation strategies for climate change over multiple locations Explores the transformative impact of recent computational intelligence advancements in vehicle surveillance and recognition particularly through CCTV analysis Focuses on the exploration and development of a supply chain network design SCND model of milk products This book will be of interest to researchers academics practitioners technology providers undergraduate and postgraduate students scholars consultants advisors and doctors It can be used by undergraduate and postgraduate students pursuing Industry 6.0 programs in computer science and engineering across the globe *Internet of Things: Usage And Application (UTeM Press)* Zakiah Ayop, Nurul Azma Zakaria, ISBN 978 967 2145 33 2 Authors Zakiah Ayop Nurul Azma Zakaria The main goal of this book is to encourage both researchers and practitioners to share and exchange their experiences and recent studies between academia and industry The overall objectives are To improve the awareness of readers about IoT concepts technologies and application areas To present case studies and innovative applications of the IoT To highlight and discuss the recent development and emerging trends in the IoT To propose new models practical solutions and technological advances of the IoT To address implementation issues and challenges **Smart Computing** Mohammad Ayoub Khan, Sanjay Gairola, Bhola Jha, Pushkar Praveen, 2021-06-22 The field

of SMART technologies is an interdependent discipline It involves the latest burning issues ranging from machine learning cloud computing optimisations modelling techniques Internet of Things data analytics and Smart Grids among others that are all new fields It is an applied and multi disciplinary subject with a focus on Specific Measurable Achievable Realistic Timely system operations combined with Machine intelligence Real Time computing It is not possible for any one person to comprehensively cover all aspects relevant to SMART Computing in a limited extent work Therefore these conference proceedings address various issues through the deliberations by distinguished Professors and researchers The SMARTCOM 2020 proceedings contain tracks dedicated to different areas of smart technologies such as Smart System and Future Internet Machine Intelligence and Data Science Real Time and VLSI Systems Communication and Automation Systems The proceedings can be used as an advanced reference for research and for courses in smart technologies taught at graduate level

*Transforming the Internet of Things for Next-Generation Smart Systems* Alankar, Bhavya,Kaur, Harleen,Chauhan, Ritu,2021-06-04 The internet of things IoT has massive potential to transform current business models and enhance human lifestyles With the current pace of research IoT will soon find many new horizons to touch IoT is now providing a base of technological advancement in various realms such as pervasive healthcare smart homes smart cities connected logistics automated supply chain manufacturing units and many more IoT is also paving the path for the emergence of the digital revolution in industrial technology termed Industry 4 0 *Transforming the Internet of Things for Next Generation Smart Systems* focuses on the internet of things IoT and how it is involved in modern day technologies in a variety of domains The chapters cover IoT in sectors such as agriculture education business and management and computer science applications The multi disciplinary view of IoT provided within this book makes it an ideal reference work for IT specialists technologists engineers developers practitioners researchers academicians and students interested in how IoT will be implemented in the next generation of smart systems and play an integral role in advancing technology in the future

**The Internet of Energy** Sheila Mahapatra,Mohan Krishna S.,B. Chandra Sekhar,Saurav Raj,2024-02-20 Providing innovative efficient clean and safe solutions and research for interfacing internet technology with energy power grids for smart cities and smart transportation this new volume discusses the use and automation of electricity infrastructures for energy producers and manufacturers integrating the implementation of the Internet of Things IoT technology for distributed energy systems in order to optimize energy efficiency and wastage This volume offers a wide range of research on using IoT for energy solutions such as algorithms for the design and control of energy grids investigations of thermal efficiency from solar grids energy for smart buildings using IoT deep learning for electrical load forecasting hybrid ultracapacitors in solar microgrids induction motor driven electric vehicles power loss reduction and voltage improvement and much more

**Micro Irrigation Scheduling and Practices** Megh R. Goyal,Balram Panigrahi,Sudhindra N. Panda,2017-09-07 Many countries around the world are struggling with the challenges of water scarcity including water for crops Micro irrigation methods are

an effective means to make the most efficient use of available water This volume Micro Irrigation Scheduling and Practices continues the efforts of the book series Innovations and Challenges in Micro Irrigation to provide informative and comprehensive knowledge on micro irrigation methods and practices This new book presents some of the latest information and research on micro irrigation and covers the area of performance practices and design focusing particularly on the performance of vegetable fruit and row crops in conjunction with different scheduling and practices Irrigation scheduling is an important water management strategy and this book addresses scheduling methods and issues Design aspects of micro irrigation systems have also been discussed in the book The authors present their research and studies on scheduling practices and design micro irrigation systems with a variety of fruits and vegetables including peppers chili watermelon oranges banana litchi rice sugarcane sorghum and marigolds Micro Irrigation Scheduling and Practices will serve as a valuable reference for researchers water resources professionals agricultural extension agencies farmers and faculty and students

**Agricultural Impacts of Climate Change [Volume 1]** Rohitashw Kumar,Vijay P Singh,Deepak Jhajharia,Rasoul Mirabbasi,2019-11-25 Conservation agriculture is a sustainable production model that not only optimizes crop yields but also reaps economic and environmental benefits as well The adoption of successful conservation agriculture methods has resulted in energy savings higher organic matter content and biotic activity in soil increased crop water availability and thus resilience to drought improved recharge of aquifers less erosion and reduced impacts from the weather associated with climate change in general Agricultural Impacts of Climate Change examines several important aspects of crop production such as climate change soil management farm machinery and different methods for sustainable conservation agriculture It presents spatial distribution of a daily monthly and annual precipitation concentration indices Diffuse Reflectance Fourier Transform Infrared Spectroscopy for analyzing the organic matter in soil and adaptation strategies for climate related plant disease scenarios It also discusses solar energy based greenhouse modeling precision farming using remote sensing and GIS and various types of machinery used for conservation agriculture Features Examines the effects of climate change on agriculture and the related strategies for mitigation through practical real world examples Explores innovative on farm technology options to increase system efficiency resulting in improved water usage Presents examples of precision farming using climate resilient technologies

**Innovative Computing and Communications** Aboul Ella Hassanien,Sameer Anand,Ajay Jaiswal,Prabhat Kumar,2024-10-14 This book includes high quality research papers presented at the Seventh International Conference on Innovative Computing and Communication ICICC 2024 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on 16 17 February 2024 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

**Computational Intelligence in Wireless Sensor**

**Networks** Ajith Abraham,Rafael Falcon,Mario Koeppen,2017-01-11 This book emphasizes the increasingly important role that Computational Intelligence CI methods are playing in solving a myriad of entangled Wireless Sensor Networks WSN related problems The book serves as a guide for surveying several state of the art WSN scenarios in which CI approaches have been employed The reader finds in this book how CI has contributed to solve a wide range of challenging problems ranging from balancing the cost and accuracy of heterogeneous sensor deployments to recovering from real time sensor failures to detecting attacks launched by malicious sensor nodes and enacting CI based security schemes Network managers industry experts academicians and practitioners alike mostly in computer engineering computer science or applied mathematics benefit from the spectrum of successful applications reported in this book Senior undergraduate or graduate students may discover in this book some problems well suited for their own research endeavors *Soft Computing for Problem Solving* Kedar Nath Das,Jagdish Chand Bansal,Kusum Deep,Atulya K. Nagar,Ponnambalam Pathipooranam,Rani Chinnappa Naidu,2019-11-27 This two volume book presents the outcomes of the 8th International Conference on Soft Computing for Problem Solving SocProS 2018 This conference was a joint technical collaboration between the Soft Computing Research Society Liverpool Hope University UK and Vellore Institute of Technology India and brought together researchers engineers and practitioners to discuss thought provoking developments and challenges in order to select potential future directions The book highlights the latest advances and innovations in the interdisciplinary areas of soft computing including original research papers on algorithms artificial immune systems artificial neural networks genetic algorithms genetic programming and particle swarm optimization and applications control systems data mining and clustering finance weather forecasting game theory business and forecasting applications It offers a valuable resource for both young and experienced researchers dealing with complex and intricate real world problems that are difficult to solve using traditional methods *Sustainability of Natural Resources* Rohitashw Kumar,Kanak N. Moharir,Vijay P. Singh,Chaitanya B. Pande,Abhay M. Varade,2024-06-28 Agriculture is the backbone of the economy in most countries and its output can be impacted by climate change effects India as well as other countries which are predominantly agricultural are facing various challenges due to increasing population which can be met by technological innovations for sustainable agriculture Advanced and innovative technologies in agriculture will not only solve the problems of fulfilling the food requirement of the growing population but also sustain agriculture in the future Sustainability of Natural Resources Planning and Management addresses the advancement of innovative techniques to address the issues of water scarcity and agricultural yield It discusses various aspects of natural resource management agriculture micro irrigation AI applications for water management and impacts of climate change on water resources This book also deals water resource exploration planning recent geographic information system based studies groundwater modelling and related applications It highlights the optimal strategies for sustainable water resource management and development It also examines precision farming using



remote sensing and GIS techniques      Recent Trends in Agriculture towards Food Security & Rural Livelihood Volume II Dr D Vengatesan Dr M Kavaskar Dr P Ramesh Dr T Selvamuthukumaran Dr S Arivudainambi Dr. Santha Govind,      *Ubiquitous Intelligent Systems* P. Karuppusamy, Isidoros Perikos, Fausto Pedro García Márquez, 2021-10-08 This book features a collection of high quality peer reviewed papers presented at International Conference on Ubiquitous Intelligent Systems ICUIS 2021 organized by Shree Venkateshwara Hi Tech Engineering College Tamil Nadu India during April 16 17 2021 The book covers topics such as cloud computing mobile computing and networks embedded computing frameworks modeling and analysis of ubiquitous information systems communication networking models big data models and applications ubiquitous information processing systems next generation ubiquitous networks and protocols advanced intelligent systems Internet of things wireless communication and storage networks intelligent information retrieval techniques AI based intelligent information visualization techniques cognitive informatics smart automation systems healthcare informatics and bioinformatics models security and privacy of intelligent information systems and smart distributed information systems

**Advances in Data Science and Artificial Intelligence** L. M. Patnaik, G. T. Raju, N. H. Prasad, 2025-08-23 This book contains the proceedings from the International Conference on Emerging Research in Computing Information Communication and Applications ERCICA 2024 The conference offers an interdisciplinary platform for researchers professional engineers scientists educators and technologists to discuss debate and promote advancements in research and technology across various fields Key topics covered include the Internet of Things IoT wireless communications image and video processing parallel and distributed computing and smart grid applications among others This book explores these emerging research areas providing a valuable resource for both researchers and practicing engineers

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