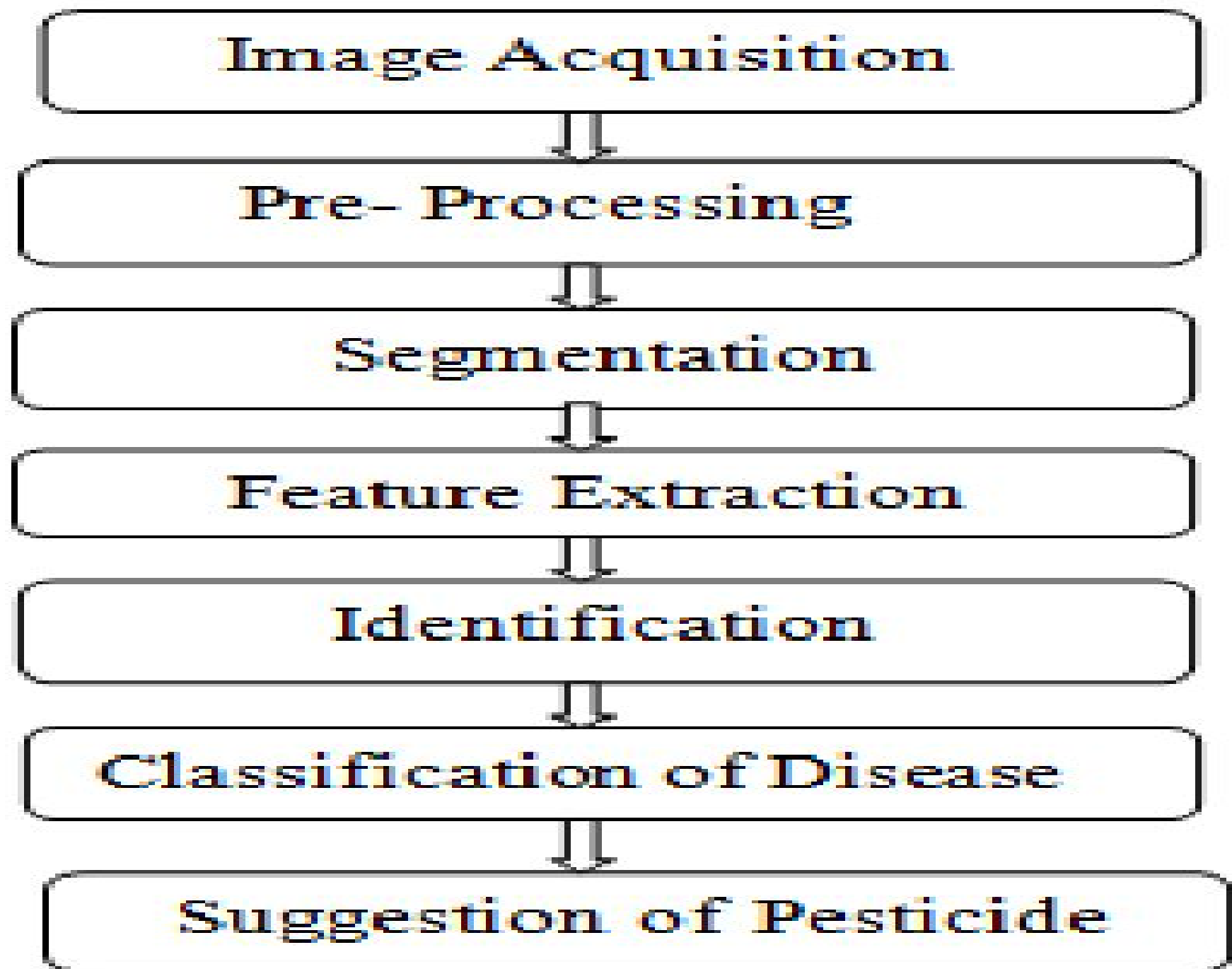


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# Fuzzy Logic Based Sugarcane Leaf Disease Identification

**Sanjay Taneja, Swati Gupta, Mohit  
Kukreti, Abhishek Singh Chauhan**



## **Fuzzy Logic Based Sugarcane Leaf Disease Identification:**

Recent Findings in Intelligent Computing Techniques Pankaj Kumar Sa, Sambit Bakshi, Ioannis K.

Hatzilygeroudis, Manmath Narayan Sahoo, 2018-11-03 This three volume book contains the Proceedings of 5th International Conference on Advanced Computing Networking and Informatics ICACNI 2017 The book focuses on the recent advancement of the broad areas of advanced computing networking and informatics It also includes novel approaches devised by researchers from across the globe This book brings together academic scientists professors research scholars and students to share and disseminate information on knowledge and scientific research works related to computing networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice *Image Processing and Capsule*

*Networks* Joy Iong-Zong Chen, João Manuel R. S. Tavares, Subarna Shakya, Abdullah M. Ilyasu, 2020-07-23 This book emphasizes the emerging building block of image processing domain which is known as capsule networks for performing deep image recognition and processing for next generation imaging science Recent years have witnessed the continuous development of technologies and methodologies related to image processing analysis and 3D modeling which have been implemented in the field of computer and image vision The significant development of these technologies has led to an efficient solution called capsule networks CapsNet to solve the intricate challenges in recognizing complex image poses visual tasks and object deformation Moreover the breakneck growth of computation complexities and computing efficiency has initiated the significant developments of the effective and sophisticated capsule network algorithms and artificial intelligence AI tools into existence The main contribution of this book is to explain and summarize the significant state of the art research advances in the areas of capsule network CapsNet algorithms and architectures with real time implications in the areas of image detection remote sensing biomedical image analysis computer communications machine vision Internet of things and data analytics techniques Applications of artificial intelligence, machine learning, and deep learning in plant

breeding Maliheh Eftekhari, Chuang Ma, Yuriy L. Orlov, 2024-05-29 Artificial Intelligence AI is an extensive concept that can be interpreted as a concentration on designing computer programs to train machines to accomplish functions like or better than humans An important subset of AI is Machine Learning ML in which a computer is provided with the capacity to learn its own patterns instead of the patterns and restrictions set by a human programmer thus improving from experience Deep Learning DL as a class of ML techniques employs multilayered neural networks The application of AI to plant science research is new and has grown significantly in recent years due to developments in calculation power proficiencies of hardware and software progress AI algorithms try to provide classifications and predictions As applied to plant breeding particularly omics data ML as a given AI algorithm tries to translate omics data which are intricate and include nonlinear interactions into precise plant breeding The applications of AI are extending rapidly and enhancing intensely in

sophistication owing to the capability of rapid processing of huge and heterogeneous data. The conversion of AI techniques into accurate plant breeding is of great importance and will play a key role in the new era of plant breeding techniques in the coming years, particularly multi-omics data analysis. Advancements in plant breeding mainly depend upon developing statistical methods that harness the complicated data provided by analytical technologies, identifying and quantifying genes, transcripts, proteins, metabolites, etc. The systems biology approach used in plant breeding, which integrates genomics, transcriptomics, proteomics, metabolomics, and other omics data, provides a massive amount of information. It is essential to perform accurate statistical analyses and AI methods such as ML and DL, as well as optimization techniques, to not only achieve an understanding of networks, regulation, and plant cell functions but also develop high-precision models to predict the reaction of new Genetically Modified (GM) plants in special conditions. The constructed models will be of great economic importance, significantly reducing the time, labor, and instrument costs when finding optimized conditions for the bio-exploitation of plants. This Research Topic covers a wide range of studies on artificial intelligence-assisted plant breeding techniques, which contribute to plant biology and plant omics research. The relevant sub-topics include, but are not restricted to, the following: AI-assisted plant breeding using omics and multi-omics approaches; applying AI techniques along with multi-omics to recognize novel biomarkers associated with plant biological activities; constructing up-to-date ML modeling and analyzing methods for dealing with omics data related to different plant growth processes; AI-assisted omics techniques in the plant defense process; combining AI-assisted omics and multi-omics techniques using plant system biology approaches; combining bioinformatics tools with AI approaches to analyze plant omics data; designing cutting-edge workflow and developing innovative AI biology methods for omics data analysis. Biomimetics Maki K. Habib, César

Martín-Gómez, 2021-06-09. Bioinspired systems technologies and techniques known as biomimetics or the mimicry of nature represent a ground-breaking method of scientific research based on innovation and a creative design approach of the nature laboratory to be applied to any scientific discipline. This approach and the associated way of thinking facilitates the cross-fertilization of scientific fields, integrating biology and the interdisciplinary knowledge featuring the evolution of models that have refined in nature within any scientific discipline. **Emerging Technologies in Data Mining and Information**

**Security** Ajith Abraham, Paramartha Dutta, Jyotsna Kumar Mandal, Abhishek Bhattacharya, Soumi Dutta, 2018-09-01. The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering Management, Kolkata, India, on February 23-25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research in progress, papers, case studies related to all the areas of data mining, machine learning, IoT, and information security. **Infrastructure Possibilities and Human-Centered Approaches With Industry 5.0** Khan,

Mohammad Ayoub, Khan, Rijwan, Praveen, Pushkar, Verma, Agya Ram, Panda, Manoj Kumar, 2024-01-25. Infrastructure

Possibilities and Human Centered Approaches With Industry 5.0 is a research book that serves as a comprehensive exploration of the potential impact of Industry 5.0 and the research opportunities presented by it a new era of industrial revolution that integrates advanced technologies with human expertise and creativity This book delves into the transformative effects of Industry 5.0 on society with a particular focus on human centric approaches and the key areas of agriculture transportation healthcare and more The book examines the revolutionary impact of Industry 5.0 in various domains It explores the application of AI and machine learning in revolutionizing agriculture improving livestock management optimizing fertilizer usage and detecting agricultural diseases Additionally it delves into the integration of advanced technologies in healthcare including wearable devices sensors and robotics to provide personalized and efficient healthcare services Furthermore the book explores the implications of Industry 5.0 on transportation smart grid systems and education Throughout the discussion the book addresses the ethical and social considerations associated with Industry 5.0 such as privacy data protection and social inequality Written for research scholars graduate engineering students and postgraduate students in the fields of computer science agriculture and health engineering this book serves as a valuable resource for understanding the transformative potential of Industry 5.0

**IoT-Based Smart Waste Management for Environmental Sustainability** Biswaranjan Acharya, Satarupa Dey, Mohammed Zidan, 2022-06-13 This book consolidates and summarizes smart technologies like IoT edge computing and AI used in different aspects of waste material management mitigation and recycling for a sustainable environment One of the cases explains how IoT based systems and wireless sensors can be used to continuously detect common pollutants such as volatile organic compounds VOCs carbon monoxide and particulate matter PM and how the data collected are used to assess the overall air quality and determine actions for improvements A collection of practical case studies this book provides a comprehensive knowledge in smart waste management to readers in universities research centers and industries

*Innovative Methods in Horticultural Crop Improvement* Jameel Al-Khayri, Lina M. Alnaddaf, Shri Mohan Jain, Suprasanna Penna, 2024-09-30 This book focuses on recent advances in Molecular Tools Nanotechnology and Artificial Intelligence to monitor manage and improve horticultural crops in terms of plant growth nutrient deficiency toxicity diseases abiotic stress soil amendments and agrochemicals entering the surrounding environment The book consists of 11 chapters grouped in 3 parts Part I Nanotechnology and Artificial Intelligence Part II Monitoring Abiotic and Biotic Stress Part III Genetic Engineering and Genomics This book provides an overview of nanotechnology and omics used to improve the productivity of crops and sustainability in the future It also describes the basic structures of six popular artificial intelligence techniques and their applications in horticultural crop improvement The book presents molecular techniques such as molecular markers genome sequencing genome editing and genetic modification that are considered efficient tools to achieve the goals of plant breeders in horticultural crop improvement programs Chapters are written by globally recognized scientists and subjected to a rigorous review process to

ensure quality presentation and scientific precision Each chapter begins with an introduction that covers similar contexts and includes a detailed discussion of the topic accompanied by high quality color images diagrams and relevant details and concludes with recommendations for future study directions in addition to a comprehensive bibliography

**Hybrid Computational Intelligence** Siddhartha Bhattacharyya, Vaclav Snasel, Deepak Gupta, Ashish Khanna, 2020-03-05 Hybrid Computational Intelligence Challenges and Utilities is a comprehensive resource that begins with the basics and main components of computational intelligence It brings together many different aspects of the current research on HCI technologies such as neural networks support vector machines fuzzy logic and evolutionary computation while also covering a wide range of applications and implementation issues from pattern recognition and system modeling to intelligent control problems and biomedical applications The book also explores the most widely used applications of hybrid computation as well as the history of their development Each individual methodology provides hybrid systems with complementary reasoning and searching methods which allow the use of domain knowledge and empirical data to solve complex problems Provides insights into the latest research trends in hybrid intelligent algorithms and architectures Focuses on the application of hybrid intelligent techniques for pattern mining and recognition in big data analytics and in human computer interaction Features hybrid intelligent applications in biomedical engineering and healthcare informatics

**Artificial Intelligence and Computer Vision for Ecological Informatics** Siddharth Singh Chouhan, Uday Pratap Singh, Akash Saxena, Akhilesh Tiwari, Sanjeev Jain, 2025-08-27 Ecological informatics more commonly known as Ecoinformatics is the study of environmental sciences and ecological information It is an emerging interdisciplinary framework for the management analysis and synthesis of ecological data with the help of advanced computational intelligence algorithms Management in this context is data acquisition preprocessing and sharing the data Analysis and synthesis are the process of extracting useful information and forecasting with the help of intelligent algorithms The aim of this book is to encapsulate concepts and theories of artificial intelligence and computer vision algorithms used for the evaluation of various ecological informatics applications It focuses on soft computing machine learning deep learning artificial intelligence bio inspired algorithms data analysis tools data visualization tools and computer vision algorithms used in ecological informatics The book covers remote sensing applications water bodies evaluation agriculture mapping aquatic mapping forest management and terrestrial ecosystems The book will be useful to students researchers scientists and field experts in directing their work towards this domain to deliver and design models and prototypes for the benefit of society and the environment

**Agriculture and Climatic Issues in South Asia** Rukhsana Sarkar, Asraful Alam, Azizur Rahman Siddiqui, 2023-12-22 This book presents focussed information related to dynamic cropland transformation agriculture development climate change and environment with the application of advance geospatial technology It describes research using geospatial tools and techniques to develop the models design and planning for agricultural land use optimization especially in south Asian countries It covers

agriculture production water scarcity industrial development natural resources environmental degradation and sustainable development Features Provides the adaptation strategy from a multidisciplinary resilience perspective Addresses contemporary agricultural resilience to various climate change issues Develops novel approaches for sustainability with environmentally sound practices Discusses methodological and innovative approaches at local to global perspective Reports research using geospatial tools and techniques to develop the models design and planning for agricultural land use optimization The book is aimed at researchers professionals and graduate students in GIS environmental engineering geography agriculture and climate studies     *Agriculture and Aquaculture Applications of Biosensors and Bioelectronics*

Khang, Alex, 2024-01-22 In recent years the advent of biosensors and bioelectronics has facilitated the swift and precise detection of numerous biomolecules or pathogens in animal samples aquatic habitats and plants These technologies have emerged as potent assets for the agriculture and aquaculture industries Many experts have raised the question how might the integration of biosensors into portable devices or automated monitoring systems enable on site and real time detection of diverse biomolecules or pathogens Agriculture and Aquaculture Applications of Biosensors and Bioelectronics presents the recent developments in biological recognition elements transducer materials and signal processing techniques for biosensors and bioelectronics used in agriculture and aquaculture applications Sophisticated biosensors and bioelectronics operate through the immobilization of biological recognition components such as enzymes or antibodies on a transducer surface This immobilization process allows for the targeted recognition and binding of biomolecules or pathogens The resulting electrical optical or chemical changes triggered by the recognition event are quantifiable through various methods and are often enhanced by applications utilizing artificial intelligence AI The necessity for high sensitivity and selectivity the optimization of biocompatibility and stability and the integration of biosensors with AI aided solutions are just some of the challenges and opportunities in developing biosensors for high tech agriculture and aquaculture This book targets a mixed audience of biotechnology engineers biosensors scientists bioelectronics researchers high tech agriculture analysts Ph D scholars researchers academics professionals engineers and students     Mastering Deepfake Technology: Strategies for Ethical

Management and Security Sanjay Taneja, Swati Gupta, Mohit Kukreti, Abhishek Singh Chauhan, 2025-08-08 This book offers a comprehensive exploration of the profound challenges and opportunities presented by deepfake technology across industries society and governance It delves into the multifaceted impacts of synthetic media examining its potential to reshape corporate trust economic stability and public discourse while emphasizing strategies to build resilience and ethical frameworks Key themes include the role of intellectual capital in safeguarding corporate reputation the risks of deepfake fraud in financial markets and the implications for insurance banking and fintech sectors Through cross disciplinary analyses the book unravels the disruptive influence of deepfakes on political affairs economic policies and corporate transparency Highlighting real world case studies it addresses workplace resilience data driven decision making and the intersection of

deepfake technology with marketing innovation and job satisfaction From social media marketing to public trust and privacy concerns the book offers actionable insights for navigating the ethical dilemmas posed by synthetic media With a focus on collaboration across disciplines the book equips readers with strategies for mitigating risks promoting media literacy and leveraging AI responsibly Mastering Deepfake Technology is an essential guide for academics professionals and policymakers seeking to understand and address the complexities of this emerging frontier

**Soft Computing and Optimization Techniques for Sustainable Agriculture** Debesh Mishra,Suchismita Satapathy,Prasenjit Chatterjee,2022-07-18 This book covers the emerging applications of different computational and optimization techniques in order to achieve a sustainable agriculture A sustainable agricultural management requires tools in providing integrated area specific and interpreted prediction or forecasting and guidance in every aspect in agriculture

**Bibliography of Agriculture ,1990**

**Food and Industry 5.0: Transforming the Food System for a Sustainable Future** Pushan Kumar Dutta,Ahmed Hamad,A. K. Haghi,Pranav Kumar Prabhakar,2025-02-22 Food and Industry 5 0 Transforming the Food System for a Sustainable Future offers a groundbreaking exploration of cutting edge technologies reshaping the global food landscape This comprehensive volume delves into innovations driving the fifth industrial revolution in food production and distribution The book examines nanotechnology and biosensor applications in food processing and safety analyzing their potential to revolutionize quality monitoring extend shelf life and enhance traceability It unveils the transformative power of artificial intelligence and machine learning across the food value chain from plant disease detection to sustainable poultry production Significant attention is given to the integration of Internet of Things IoT and digital twin technology in agriculture and food supply chains offering insights into real time monitoring predictive maintenance and optimization techniques The text explores robotics in food manufacturing emphasizing advancements in efficiency waste reduction and safety Crucial methodologies for quantifying and analyzing complex agricultural data are addressed presenting both regression and classification approaches in precision agriculture Sustainability is a key focus with chapters examining nano fertilizers soil amendments and AI integrated crop systems designed to advance UN Sustainable Development Goals Blockchain technology s role in enhancing food traceability and safety is investigated complete with real world case studies The book addresses the complex regulatory landscape surrounding Industry 5 0 technologies including waste management in hospitality and ethical considerations of AI deployment Concluding chapters offer forward looking analyses of emerging trends in dairy diet and hospitality subsectors This meticulously researched volume employs a wide array of methodologies from experimental studies to economic modeling and qualitative research Food and Industry 5 0 is an indispensable resource for food scientists agricultural researchers computer scientists policymakers and industry professionals By bridging multiple disciplines it provides a scientifically rigorous data driven roadmap for creating a more sustainable efficient and ethical global food system

*Toward Enhanced and Sustainable Agricultural Productivity in the 2000's ,1994* *Agronomy Abstracts ,1995* Includes



abstracts of the annual meetings of the American Society of Agronomy Soil Science Society of America Crop Science Society of America of its Agronomic Education Division     *Entering the RNA Wonderland: Opportunities and Challenges for RNA Therapeutics in the Cardiovascular System* Anna Zampetaki,Lars Maegdefessel,2020-07-22     **Bibliography of Agriculture with Subject Index** ,2000

This book delves into Fuzzy Logic Based Sugarcane Leaf Disease Identification. Fuzzy Logic Based Sugarcane Leaf Disease Identification is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Fuzzy Logic Based Sugarcane Leaf Disease Identification, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
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    - Chapter 2: Essential Elements of Fuzzy Logic Based Sugarcane Leaf Disease Identification
    - Chapter 3: Fuzzy Logic Based Sugarcane Leaf Disease Identification in Everyday Life
    - Chapter 4: Fuzzy Logic Based Sugarcane Leaf Disease Identification in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Fuzzy Logic Based Sugarcane Leaf Disease Identification. The first chapter will explore what Fuzzy Logic Based Sugarcane Leaf Disease Identification is, why Fuzzy Logic Based Sugarcane Leaf Disease Identification is vital, and how to effectively learn about Fuzzy Logic Based Sugarcane Leaf Disease Identification.
  3. In chapter 2, the author will delve into the foundational concepts of Fuzzy Logic Based Sugarcane Leaf Disease Identification. The second chapter will elucidate the essential principles that need to be understood to grasp Fuzzy Logic Based Sugarcane Leaf Disease Identification in its entirety.
  4. In chapter 3, the author will examine the practical applications of Fuzzy Logic Based Sugarcane Leaf Disease Identification in daily life. This chapter will showcase real-world examples of how Fuzzy Logic Based Sugarcane Leaf Disease Identification can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Fuzzy Logic Based Sugarcane Leaf Disease Identification in specific contexts. This chapter will explore how Fuzzy Logic Based Sugarcane Leaf Disease Identification is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Fuzzy Logic Based Sugarcane Leaf Disease Identification. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Fuzzy Logic Based Sugarcane Leaf Disease Identification.

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