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Autore	Narayanasamy P. <1937->
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Nota di contenuto	POSTHARVEST PATHOGENS AND DISEASE MANAGEMENT; CONTENTS; PREFACE; ACKNOWLEDGMENTS; PART I CAUSES AND EFFECTS; 1 Introduction; 1.1 Importance of Postharvest Diseases; 1.2 The Study of Postharvest Diseases; 1.3 Development of Disease Management Strategies; Summary; References; 2 Detection and Identification of Postharvest Microbial Pathogens; 2.1 Microbial Pathogens in Seeds; 2.2 Microbial Pathogens in Propagative Plant Materials; 2.3 Microbial Pathogens in Fruits; 2.4 Microbial Pathogens in Vegetables; Summary; Appendix; References; 3 Ecology of Postharvest Microbial Pathogens 3.1 Seed Microflora3.2 Fruit Microflora; 3.3 Vegetable Microflora; Summary; References; 4 Disease Development and Symptom Expression; 4.1 Seed Infection; 4.2 Seed Deterioration; 4.3 Infection of Fruits and Vegetables; Summary; Appendix; References; PART II FACTORS INFLUENCING DISEASE DEVELOPMENT IN STORAGE; 5 Influence of Cultivation Practices and Harvesting Methods; 5.1 Cultivation Practices; 5.2 Harvest-Related Operations; Summary;

References; 6 Influence of Postharvest Handling and Storage Conditions; 6.1 Postharvest Handling; 6.2 Storage Conditions; Summary; References

PART III PRINCIPLES AND PRACTICES OF POSTHARVEST DISEASE MANAGEMENT 7 Preventive and Physical Methods; 7.1 Seeds and Propagative Materials; 7.2 Fruits and Vegetables; Summary; References; 8 Genetic Resistance of Host Plants for Disease Management; 8.1 Molecular Biology of Host Plant Resistance; 8.2 Resistance to Seed Infection; 8.3 Development of Disease Resistant Cultivars; Summary; Appendix; References; 9 Biocontrol Agents for Disease Management; 9.1 Biological Control of Postharvest Diseases of Fruits; 9.2 Biological Control of Postharvest Diseases of Vegetables

9.3 Biological Control of Seed Spoilage 9.4 Mechanisms of Biocontrol; 9.5 Enhancement of Efficiency of Biocontrol Agents; 9.6 Formulation of Biocontrol Agents; 9.7 Natural Compounds; Summary; Appendix; References; 10 Biotechnology for the Improvement of Resistance to Postharvest Diseases; 10.1 Genetic Manipulation; 10.2 Activation of Natural Host Defense Mechanisms; 10.3 Mycotoxin Management through Transformation; Summary; Appendix; References; 11 Postharvest Disease Management through Chemicals; 11.1 Fumigants; 11.2 Chemicals Used as Dips; 11.3 Chemicals Applied as Sprays or Dusts

11.4 Assessment of Fungicidal Activity 11.5 Chemicals Alternative to Conventional Fungicides; 11.6 Seed Treatment with Chemicals; 11.7 Development of Resistance to Fungicides; 11.8 Assessment of Fungicide Residues; 11.9 Control of Pathogens on Fresh-Cut Produce; Summary; Appendix; References; 12 Integrated Systems for the Management of Postharvest Diseases; 12.1 Seed-Borne Diseases; 12.2 Postharvest Diseases of Perishables; Summary; References; Addendum: Basic Methods; References; Index

Sommario/riassunto

POSTHARVEST PATHOGENS AND DISEASE MANAGEMENT Postharvest diseases caused by microbial pathogens account for millions of dollars in losses of both durable and perishable produce products every year. Moreover, with consumers increasingly demanding minimally processed vegetables and fruits--which can be invaded by human pathogens--there is an imperative need for suitable protective measures to provide pathogen-free commodities that are free from, or contain only acceptable levels of, chemical residues. Providing details of both conventional and modern molecular techniques applicable

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Nota di contenuto	Preface -- Contents -- Editors and Contributors -- Using Opinionated-Objective Terms to Improve Lexicon-Based Sentiment Analysis -- 1 Introduction -- 2 Related Work -- 3 Methodology -- 3.1 Dataset -- 3.2 Data Pre-processing -- 3.3 Lexicon Generation -- 3.4 Corpus Statistics -- 3.5 Evaluation Approach and Metrics -- 4 Results -- 5 Conclusion -- 5.1 Theoretical and Practical Implications -- 5.2 Limitation and Future Work -- References -- Explaining the Artificial Neural Network Using Evolutionary Fuzzy Association Rule Mining (EFARM) -- 1 Introduction -- 2 Related Work -- 3 Background -- 3.1 FARM (Fuzzy Association Rule Mining) -- 3.2 NSGA-II -- 4 Proposed Methodology -- 4.1 Data Transformation and Training of the ANN Model -- 4.2 Rule Extraction -- 4.3 Designing of NSGA-II -- 5 Result and Analysis -- 6 Conclusion -- References
Sommario/riassunto	This book provides an insight into 12th International Conference on Soft Computing for Problem Solving (SocProS 2023), organized by The

Department of Applied Mathematics and Scientific Computing, Saharanpur Campus of Indian Institute of Technology, Roorkee, India, in conjunction with Continuing Education Center during 11–13 August 2023. This book presents the latest achievements and innovations in the interdisciplinary areas of soft computing, machine learning, and data science. It covers original research papers in the areas of algorithms (artificial neural network, deep learning, statistical methods, genetic algorithm, and particle swarm optimization) and applications (data mining and clustering, computer vision, medical and health care, finance, data envelopment analysis, business, and forecasting applications). This book is beneficial for young as well as experienced researchers dealing across complex and intricate real-world problems for which finding a solution by traditional methods is a difficult task.
