

ature set

ature set include the features that are described in
posed work. Some of them are discussed below:



Figure 3: Dataset of apple

entropy– Entropy is anarithmeticalmeasure of
bitrariness that can be used to illustrate the texture
the input image. It is defined as:

$$\sum(n_i \cdot \log_2(n_i)) \quad (1)$$



Figure 4: Query Image

Table 1: Feature Vector

Eccentricity	0.4890	Equidiameter	172.0732
Orientation	1.0265	Hue(HSV)	0.0459
Major Axis Length	44.4570	Saturation (HSV)	0.2743
Minor Axis Length	27.4032	Value	0.9516
Hue(HSI)	0.1519	Saturation(HIS)	0.1748
Area	23255	Intensity	0.8035
Red Color Intensity	242.5683	Green Color Intensity	191.2201
Aspect Ratio	1.6045	Blue Color Intensity	180.8911
Solidity	0.9893	Entropy	1.7310
Area of spots	3.7135e+03	Spots percentage	15.9686

Fruit Grading Using Digital Image Processing Techniques

**Marcelo V. Garcia, Félix Fernández-
Peña, Carlos Gordón-Gallegos**



Fruit Grading Using Digital Image Processing Techniques:

Understanding Digital Image Processing Vipin Tyagi, 2018-09-13 This book introduces the fundamental concepts of modern digital image processing. It aims to help the students, scientists and practitioners to understand the concepts through clear explanations, illustrations and examples. The discussion of the general concepts is supplemented with examples from applications and ready to use implementations of concepts in MATLAB. Program code of some important concepts in programming language C is provided. To explain the concepts, MATLAB functions are used throughout the book. MATLAB Version 9.3 R2017b, Image Acquisition Toolbox Version 5.3 R2017b, Image Processing Toolbox Version 10.1 R2017b have been used to create the book material. Meant for students and practicing engineers, this book provides a clear, comprehensive and up to date introduction to Digital Image Processing in a pragmatic manner.

Computer Vision Technology in the Food and Beverage Industries D-W Sun, 2012-08-13 The use of computer vision systems to control manufacturing processes and product quality has become increasingly important in food processing. Computer vision technology in the food and beverage industries reviews image acquisition and processing technologies and their applications in particular sectors of the food industry. Part one provides an introduction to computer vision in the food and beverage industries, discussing computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing. Part two goes on to consider computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure. Current and future applications of computer vision in specific areas of the food and beverage industries are the focus of part three. Techniques for quality control of meats are discussed alongside computer vision in the poultry, fish and bakery industries, including techniques for grain quality evaluation and the evaluation and control of fruit, vegetable and nut quality. With its distinguished editor and international team of expert contributors, Computer vision technology in the food and beverage industries is an indispensable guide for all engineers and researchers involved in the development and use of state of the art vision systems in the food industry. Discusses computer vision and infrared techniques for image analysis, hyperspectral and multispectral imaging, tomographic techniques and image processing. Considers computer vision technologies for automatic sorting, foreign body detection and removal, automated cutting and image analysis of food microstructure. Examines techniques for quality control and computer vision in various industries including the poultry, fish and bakery, fruit, vegetable and nut industry.

Handbook of Research on AI-Equipped IoT Applications in High-Tech Agriculture Khang, Alex, 2023-08-02 The agriculture industry is facing significant challenges in meeting the increasing demand for food while also ensuring sustainable development. Traditional agricultural methods are not equipped to meet the demands of the modern world. To overcome these challenges, Advanced Technologies and AI Equipped IoT Applications in High Tech Agriculture provides an in depth analysis of the opportunities and challenges for AI powered management tools and IoT equipped techniques for the high tech agricultural

ecosystem The Handbook of Research on AI Equipped IoT Applications in High Tech Agriculture explores advanced methodologies models techniques technologies and applications along with the concepts of real time supporting systems to help agricultural producers adjust plans or schedules for taking care of their farms Additionally it discusses the role of IoT technologies and AI applications in agricultural ecosystems and their potential to improve product quality and market competitiveness The book includes discussions on the application of blockchain biotechnology drones robotics data analytics and visualization in high tech agriculture It is an essential reference for anyone interested in the future of high tech agriculture including agricultural analysts investment analysts scholars researchers academics professionals engineers and students *Handbook of Research on Food Processing and Preservation Technologies* Preeti Birwal, Megh R. Goyal, Monika Sharma, 2021-11-25

The Handbook of Research on Food Processing and Preservation Technologies is a rich 5 volume collection that illustrates various design development and applications of novel and innovative strategies for food processing and preservation The roles and applications of minimal processing techniques such as ozone treatment vacuum drying osmotic dehydration dense phase carbon dioxide treatment pulsed electric field and high pressure assisted freezing are discussed along with a wide range of other applications The handbook also explores some exciting computer aided techniques emerging in the food processing sector such as robotics radio frequency identification RFID three dimensional food printing artificial intelligence etc Some emphasis has also been given on nondestructive quality evaluation techniques such as image processing terahertz spectroscopy imaging technique near infrared Fourier transform infrared spectroscopy technique etc for food quality and safety evaluation The significant roles of food properties in the design of specific foods and edible films have been elucidated as well Volume 3 Computer Aided Food Processing and Quality Evaluation Techniques of the multi volume set reports on a number of applications of computer aided techniques for quality evaluation and to secure food quality The chapter authors present emerging nonthermal approaches for food processing and preservation including a detailed discussion on color measurement techniques RFID 3D food printing potential of robotics artificial intelligence terahertz spectroscopy imaging technique instrumentation techniques and transducers food labeling as marketing and quality assurance tool detection of pesticides mathematical simulation of moisture sorption in food products numerical methods and modeling techniques concept of phase change materials and dielectric properties of animal source foods Other volumes in the set include Volume 1 Nonthermal and Innovative Food Processing Methods Volume 2 Nonthermal Food Preservation and Novel Processing Strategies Volume 3 Computer Aided Food Processing and Quality Evaluation Techniques Volume 4 Design and Development of Specific Foods Packaging Systems and Food Safety Volume 5 Emerging Techniques for Food Processing Quality and Safety Assurance Along with the other volumes Handbook of Research on Food Processing and Preservation Technologies provides an abundance of valuable information and will be an excellent reference for researchers scientists students growers traders processors industries and others Recent Advances in Postharvest Technologies,

Volume 2 Nouredine Benkeblia,2024-09-10 The elapsing time from producer to consumer has significantly increased as a result of food marketing and trade globalization Consequently maintaining quality along the food value chain is becoming a significant challenge Postharvest losses are considered a major component of food loss and waste in the supply chain from farmers to consumers due to improper handling storage transport preservation techniques and spoilage Postharvest science aims to extend the shelf life of fresh and perishable commodities and to reduce heavy losses thereby contributing to food security While significant progresses have been made in postharvest preservation and shelf life extension the continuous development of emerging technologies have changed our vision on postharvest science Furthermore recent advancements in molecular engineering of horticultural crops for quality improvement the development of genomics transcriptomics proteomics and metabolomics have led to a better understanding of the physiology and the biochemistry of the senescence processes resulting in better preservation and improved production of fresh crops This two volume work focuses on innovative technologies that extend and preserve shelf life of fruits and vegetables Volume 1 offers a review on the state of the art modern technologies in the postharvest field The accompanying Volume 2 explores advanced and novel technologies after harvest particularly the application of nanotechnologies to packaging materials *Handbook of Research on Food Processing and Preservation Technologies* Megh R. Goyal,Preeti Birwal,Monika Sharma,2022-02-28 The Handbook of Research on Food Processing and Preservation Technologies is a 5 volume collection that highlights various design development and applications of novel and innovative strategies for food processing and preservation Together the 5 volumes will prove to be valuable resource for researchers scientists students growers traders processors and others in the food processing industry **International Conference on Wireless, Intelligent, and Distributed Environment for Communication** Isaac Woungang,Sanjay Kumar Dhurandher,2018-04-17 This book presents the proceedings of the International Conference on Wireless Intelligent and Distributed Environment for Communication WIDECOM 2018 organized by SRM University NCR Campus New Delhi India February 16 18 2018 The conference focuses on challenges with respect to the dependability of integrated applications and intelligence driven security threats against the platforms supporting these applications The WIDECOM 2018 proceedings features papers addressing issues related to the new dependability paradigms design control and management of next generation networks performance of dependable network computing and mobile systems protocols that deal with network computing mobile ubiquitous systems cloud systems and Internet of Things IoT systems The proceeding is a valuable reference for researchers instructors students scientists engineers managers and industry practitioners in industry in the aforementioned areas The book s structure and content is organized in such a manner that makes it useful at a variety of learning levels Presents the proceedings of the International Conference on Wireless Intelligent and Distributed Environment for Communication WIDECOM 2018 organized by SRM University NCR Campus New Delhi India February 16 18 2018 Includes an array of topics related to new dependability paradigms design

control and management of next generation networks performance of dependable network computing and mobile systems protocols that deal with network computing mobile ubiquitous systems cloud systems and Internet of Things IoT systems Addresses issues related to the design and performance of dependable network computing and systems and to the security of these systems Computer Vision Technology for Food Quality Evaluation Da-Wen Sun,2016-04-07 Computer Vision Technology for Food Quality Evaluation Second Edition continues to be a valuable resource to engineers researchers and technologists in research and development as well as a complete reference to students interested in this rapidly expanding field This new edition highlights the most recent developments in imaging processing and analysis techniques and methodology captures cutting edge developments in computer vision technology and pinpoints future trends in research and development for food quality and safety evaluation and control It is a unique reference that provides a deep understanding of the issues of data acquisition and image analysis and offers techniques to solve problems and further develop efficient methods for food quality assessment Thoroughly explains what computer vision technology is what it can do and how to apply it for food quality evaluation Includes a wide variety of computer vision techniques and applications to evaluate a wide variety of foods Describes the pros and cons of different techniques for quality evaluation *Modern Techniques for Agricultural Disease Management and Crop Yield Prediction* Pradeep, N.,Kautish, Sandeep,Nirmala, C.R.,Goyal, Vishal,Abdellatif, Sonia,2019-08-16 Since agriculture is one of the key parameters in assessing the gross domestic product GDP of any country it has become crucial to transition from traditional agricultural practices to smart agriculture New agricultural technologies provide numerous opportunities to maximize crop yield by recognizing and analyzing diseases and other natural variables that may affect it Therefore it is necessary to understand how computer assisted technologies can best be utilized and adopted in the conversion to smart agriculture *Modern Techniques for Agricultural Disease Management and Crop Yield Prediction* is an essential publication that widens the spectrum of computational methods that can aid in agriculture disease management weed detection and crop yield prediction Featuring coverage on a wide range of topics such as soil and crop sensors swarm robotics and weed detection this book is ideally designed for environmentalists farmers botanists agricultural engineers computer engineers scientists researchers practitioners and students seeking current research on technology and techniques for agricultural diseases and predictive trends *Multispectral Image Processing and Pattern Recognition Techniques for Quality Inspection of Apple Fruits* Devrim Unay,2006 In this book we address the problem of quality inspection of agricultural produce more specifically apple fruits based on multispectral image analysis Following a divide and conquer strategy the problem is divided into the subtasks of stem and ca Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies Sarfraz, Muhammad,2014-04-30 The fields of computer vision and image processing are constantly evolving as new research and applications in these areas emerge Staying abreast of the most up to date developments in this field is necessary in order to promote further research and apply

these developments in real world settings Computer Vision and Image Processing in Intelligent Systems and Multimedia Technologies features timely and informative research on the design and development of computer vision and image processing applications in intelligent agents as well as in multimedia technologies Covering a diverse set of research in these areas this publication is ideally designed for use by academicians technology professionals students and researchers interested in uncovering the latest innovations in the field Sensing and Artificial Intelligence Solutions for Food

Manufacturing Daniel Hefft, Charles Oluwaseun Adetunji, 2023-03-31 This book gives readers a practical introduction into machine learning and sensing techniques their design and ultimately specific applications that could improve food production It shows how these sensing and computing systems are suitable for process implementation in food factories This book starts by giving the reader an overview of the historic structures of food manufacturing standards and how they defined today s manufacturing It is followed by a topical introduction for professionals in the food industries in topics such as AI machine learning and neural networks It also includes an explanation of the different sensor systems and their basic principles It shows how these sensing and computing systems are suitable for process implementation in food factories and what types of sensing systems have already been proven to deliver benefit to the food manufacturing industries The authors also discuss issues around food safety labelling and traceability and how sensing and AI can help to resolve issues They also use case studies and specific examples that can show the benefit of such technologies compared to current approaches This book is a practical introduction and handbook for students food engineers technologists and process engineers on the benefits and challenges around modern manufacturing systems following Industry 4 0 approaches **Trends in Wireless**

Communication and Information Security Mithun Chakraborty, Raman Kr. Jha, Valentina Emilia Balas, Samarendra Nath Sur, Debdatta Kandar, 2021-04-22 This book presents best selected papers presented at the International Conference on Emerging Wireless Communication Technologies and Information Security EWCIS 2020 held from 8th 9th October 2020 at Amity University Jharkhand Ranchi India The book includes papers in the research area of wireless communications and intelligent systems signal and image processing in engineering applications data communication and information security IoT and cloud computing The contribution ranges from scientists engineers and technologists from academia as well as from industry

Image Processing: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2013-05-31 Advancements in digital technology continue to expand the image science field through the tools and techniques utilized to process two dimensional images and videos Image Processing Concepts Methodologies Tools and Applications presents a collection of research on this multidisciplinary field and the operation of multi dimensional signals with systems that range from simple digital circuits to computers This reference source is essential for researchers academics and students in the computer science computer vision and electrical engineering fields

Materials, Design, and Manufacturing for Sustainable Environment Santhakumar Mohan, S. Shankar, G. Rajeshkumar, 2021-02-06 This book

comprises the select proceedings of the International Conference on Materials Design and Manufacturing for Sustainable Environment ICMDMSE 2020 The primary focus is on emerging materials and cutting edge manufacturing technologies for sustainable environment The book covers a wide range of topics such as advanced materials vibration tribology finite element method FEM heat transfer fluid mechanics energy engineering additive manufacturing robotics and automation automobile engineering industry 4 0 MEMS and nanotechnology optimization techniques condition monitoring and new paradigms in technology management Contents of this book will be useful to students researchers and practitioners alike

Computer Vision and Machine Learning in Agriculture Mohammad Shorif Uddin,Jagdish Chand Bansal,2021-03-23

This book discusses computer vision a noncontact as well as a nondestructive technique involving the development of theoretical and algorithmic tools for automatic visual understanding and recognition which finds huge applications in agricultural productions It also entails how rendering of machine learning techniques to computer vision algorithms is boosting this sector with better productivity by developing more precise systems Computer vision and machine learning CV ML helps in plant disease assessment along with crop condition monitoring to control the degradation of yield quality and severe financial loss for farmers Significant scientific and technological advances have been made in defect assessment quality grading disease recognition pests insects fruits and vegetable types recognition and evaluation of a wide range of agricultural plants crops leaves and fruits The book discusses intelligent robots developed with the touch of CV ML which can help farmers to perform various tasks like planting weeding harvesting plant health monitoring and so on The topics covered in the book include plant leaf and fruit disease detection crop health monitoring applications of robots in agriculture precision farming assessment of product quality and defects pest insect fruits and vegetable types recognition

Intelligent Techniques and Applications in Science and Technology Subhojit Dawn,Valentina Emilia Balas,Anna

Esposito,Sadhan Gope,2020-03-02 This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem Innovation is the successful exploitation of a new idea Through innovation we can achieve MORE while using LESS Innovations in science technology will not only help mankind as a whole but also contribute to the economic growth of individual countries It is essential that the global problem of environmental degradation be addressed immediately and thus we need to rethink the concept of sustainable development Indeed new environmentally friendly technologies are fundamental to attaining sustainable development The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment and how to establish a more resource efficient and sustainable society The book provides an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing optimization for scientific technological development smart information communication bio monitoring smart cities food quality assessment waste management environmental aspects alternative energies sustainable infrastructure development etc In short it offers valuable information and insights for budding

engineers researchers upcoming young minds and industry professionals promoting awareness for recent advances in the various fields mentioned above **Advances and Applications in Computer Science, Electronics, and Industrial Engineering** Marcelo V. Garcia,Félix Fernández-Peña,Carlos Gordón-Gallegos,2022-05-25 This book presents the proceedings of the 3rd Conference on Computer Science Electronics and Industrial Engineering CSEI 2021 held in Ambato in October 2021 with participants from 10 countries and guest speakers from Chile Colombia Brasil Spain Portugal and United States Featuring 20 peer reviewed papers it discusses topics such as the use of metaheuristics for non deterministic problem solutions software architectures for supporting e government initiatives and the use of electronics in e learning and industrial environments It also includes contributions illustrating how new approaches to these converging research areas are impacting the development of human societies around the world As such it is a valuable resource for scholars and practitioners alike

Deep Technology for Sustainable Fisheries and Aquaculture Amaj Rahimi-Midani,2023-08-12 This book uses real world examples from the aquaculture industry to demonstrate how deep technology is assisting farmers and vulnerable communities Works conducted by Poseidon AI a deep tech company involved in the aquaculture sector in different countries are presented as case studies to show the positive impacts of deep tech involvement in the aquaculture sector Primary industries such as fisheries and aquaculture rely heavily on labor Furthermore the manual practices of these farming methods increase material waste and reduce yields resulting in higher costs and lower revenues Poikilotherms make up the majority of aquatic animals and environmental changes have a significant impact on them This means that due to climate change farming of these animals cannot continue in the same way that it has for centuries Artificial intelligence machine learning image processing sensing and automation are approaches that can assist these farms in dealing with rapid environmental changes while also assisting farmers in growing their businesses sustainably This book is of interest to climate change scientists entrepreneurs investors civil workers and policymakers Furthermore the book is a great complimentary material for graduate students of fisheries aquaculture ecology soil science water management and environmental sciences All national and international policymakers working in implementation of UNSDGs and sustainability will find this book a useful read **Case Studies in Intelligent Computing** Biju Issac,Nauman Israr,2014-08-29 Although the field of intelligent systems has grown rapidly in recent years there has been a need for a book that supplies a timely and accessible understanding of this important technology Filling this need Case Studies in Intelligent Computing Achievements and Trends provides an up to date introduction to intelligent systems This edited book

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