A New Method For Fruits Recognition System

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Mobile Communication and Power Engineering Vinu V Das 2013-01-17 This book comprises the refereed proceedings of the International Conference, AIM/CCPE 2012, held in Bangalore, India, in April 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of research and development activities in computer science, information technology, computational engineering, mobile communication, control and instrumentation, communication system, power electronics and power engineering.

A General Index to Appleton's Annual Cyclopaedia 1877

Recent Trends in Image Processing and Pattern Recognition K.C. Santosh 2017-04-26 This book constitutes the refereed proceedings of the First International Conference on Recent Trends in Image Processing and Pattern Recognition, RTIP2R 2016, held in Bidar, Karnataka, India, in December 2016. The 39 revised full papers presented were carefully reviewed and selected from 99 submissions. The papers are organized in topical sections on document analysis; pattern analysis and machine learning; image analysis; biomedical image analysis; biometrics.

Computer Applications for Bio-technology, Multimedia and Ubiquitous City Tai-hoon Kim 2012-11-28 This volume constitutes the refereed proceedings of the International Conferences, BSBT, MulGraB and IUrC 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Gangneung, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of multimedia, computer graphics and broadcasting, bio-science and bio-technology, and intelligent urban computing.

Computational Intelligence, Communications, and Business Analytics J. K. Mandal 2017-10-01 The two volume set CCIS 775 and 776 constitutes the refereed proceedings of the First International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2017, held in Kolkata, India, in March 2017. The 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on data science and advanced data analytics; signal

processing and communications; microelectronics, sensors, intelligent networks; computational forensics (privacy and security); computational intelligence in bio-computing; computational intelligence in mobile and quantum computing; intelligent data mining and data warehousing; computational intelligence.

Technology of fruits and vegetable processing Kai Peters & 2019-12-03 Fruits and vegetables are both real nourishment items in their own particular right and key fixings in many handled foods. There has been developing examination on their significance to wellbeing and procedures to protect the healthful and tangible qualities wanted by buyers. This real gathering outlines a portion of the key topics in this current research. Adopting a multidisciplinary strategy, this work examines the fundamentals and late developments in fresh-cut foods grown from the ground handling. It tends to logical advance in the fresh-cut range and talks about the business and the market for these products. They likewise inspect advancements in making sound and alluring items. Utilization of inventive bundling innovation that could enhance item quality and timeframe of realistic usability, new natural product blends with more assortment, consolidation of flavors, or the utilization of steamer sacks for vegetables are only a couple of contemplations that could grow the business sectors of fresh-cut items. With its attention on science, including biochemical, physiological, microbiological, and quality angles, and in addition heath contemplations and customer science, this book gives an account of front line propels and the down to earth utilizations of these advances.

Computer and Computing Technologies in Agriculture III Daoliang Li 2010-04-11 I want to express my sincere thanks to all authors who submitted research papers to support the Third IFIP International Conference on Computer and Computing Te- nologies in Agriculture and the Third Symposium on Development of Rural Infor- tion (CCTA 2009) held in China, during October 14–17, 2009. This conference was hosted by the CICTA (EU-China Centre for Information & Communication Technologies, China Agricultural University), China National En- neering Research Center for Information Technology in Agriculture, Asian Conf- ence on Precision Agriculture, International Federation for Information Processing, Chinese Society of Agricultural Engineering, Beijing Society for Information Te- nology in Agriculture, and the Chinese Society for Agricultural Machinery. The pla- num sponsor includes the Ministry of Science and Technology of China, Ministry of Agriculture of China, Ministry of Education of China, among others. The CICTA (EU-China Centre for Information & Communication Technologies, China Agricultural University) focuses on research and development of advanced and practical technologies applied in agriculture and on promoting international communi- tion and cooperation. It has successfully held three International Conferences on C- puter and Computing Technologies in Agriculture, namely CCTA 2007, CCTA 2008 and CCTA 2009. Sustainable agriculture is the focus of the whole world currently, and therefore the application of information technology in agriculture is becoming more and more - portant. 'Informatized agriculture' has been sought by many countries recently in order to scientifically manage agriculture to achieve low costs and high incomes.

Smart Agricultural Services Using Deep Learning, Big Data, and IoT Gupta, Amit Kumar 2020-10-30 The agricultural sector can benefit immensely from developments in the field of smart farming. However, this research area focuses on providing specific fixes to particular situations and falls short on implementing data-driven frameworks that provide large-scale benefits to the industry as a whole. Using deep learning can bring immense data and improve our understanding of various earth sciences and improve farm services to yield better crop

production and profit. Smart Agricultural Services Using Deep Learning, Big Data, and IoT is an essential publication that focuses on the application of deep learning to agriculture. While highlighting a broad range of topics including crop models, cybersecurity, and sustainable agriculture, this book is ideally designed for engineers, programmers, software developers, agriculturalists, farmers, policymakers, researchers, academicians, and students.

Computational Intelligence, Communications, and Business Analytics Jyotsna Kumar Mandal 2019-06-25 The two volume set CCIS 1030 and 1031 constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2018, held in Kalyani, India, in July 2018. The 76 revised full papers presented in the two volumes were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on computational intelligence; signal processing and communications; microelectronics, sensors, and intelligent networks; data science & advanced data analytics; intelligent data mining & data warehousing; and computational forensics (privacy and security).

Advances in Neural Networks – ISNN 2020 Min Han 2020-11-28 This volume LNCS 12557 constitutes the refereed proceedings of the 17th International Symposium on Neural Networks, ISNN 2020, held in Cairo, Egypt, in December 2020. The 24 papers presented in the two volumes were carefully reviewed and selected from 39 submissions. The papers were organized in topical sections named: optimization algorithms; neurodynamics, complex systems, and chaos; supervised/unsupervised/reinforcement learning/deep learning; models, methods and algorithms; and signal, image and video processing.

Advanced Engineering Optimization Through Intelligent Techniques R. Venkata Rao 2019-07-09 This book comprises select peer-reviewed papers presented at the International Conference on Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT) 2018. The book combines contributions from academics and industry professionals, and covers advanced optimization techniques across all major engineering disciplines like mechanical, manufacturing, civil, automobile, electrical, chemical, computer and electronics engineering. Different optimization techniques and algorithms such as genetic algorithm (GA), differential evolution (DE), simulated annealing (SA), particle swarm optimization (PSO), artificial bee colony (ABC) algorithm, artificial immune algorithm (AIA), teaching-learning-based optimization (TLBO) algorithm and many other latest meta-heuristic techniques and their applications are discussed. This book will serve as a valuable reference for students, researchers and practitioners and help them in solving a wide range of optimization problems.

Advanced Machine Learning Technologies and Applications Aboul Ella Hassanien 2014-11-04 This book constitutes the refereed proceedings of the Second International Conference on Advanced Machine Learning Technologies and Applications, AMLTA 2014, held in Cairo, Egypt, in November 2014. The 49 full papers presented were carefully reviewed and selected from 101 initial submissions. The papers are organized in topical sections on machine learning in Arabic text recognition and assistive technology; recommendation systems for cloud services; machine learning in watermarking/authentication and virtual machines; features extraction and classification; rough/fuzzy sets and applications; fuzzy multi-criteria decision making; Web-based application and case-based reasoning construction; social networks and big data sets.

Proceedings of International Conference on Fourth Industrial Revolution and Beyond 2021 Sazzad Hossain 2022-10-03 This book includes papers in the research area of artificial intelligence, robotics and automation, IoT smart agriculture, data analysis and cloud computing, communication and technology, and signal and natural language processing. The book is a collection of research papers presented at the First International Conference on Fourth Industrial Revolution and Beyond (IC4IR 2021) organized by University Grants Commission of Bangladesh in association with IEEE Computer Society Bangladesh Chapter and Bangladesh Computer Society during December 10–11, 2021.

Sensing, Data Managing, and Control Technologies for Agricultural Systems Shaochun Ma 2022-06-06 Agricultural automation is the emerging technologies which heavily rely on computer-integrated management and advanced control systems. The tedious farming tasks had been taken over by agricultural machines in last century, in new millennium, computer-aided systems, automation, and robotics has been applied to precisely manage agricultural production system. With agricultural automation technologies, sustainable agriculture is being developed based on efficient use of land, increased conservation of water, fertilizer and energy resources. The agricultural automation technologies refer to related areas in sensing & perception, reasoning & learning, data communication, and task planning & execution. Since the literature on this diverse subject is widely scattered, it is necessary to review current status and capture the future challenges through a comprehensive monograph. In this book we focus on agricultural automation and provide critical reviews of advanced control technologies, their merits and limitations, application areas and research opportunities for further development. This collection thus serves as an authoritative treatise that can help researchers, engineers, educators, and students in the field of sensing, control, and automation technologies for production agriculture.

Emerging Trends in Intelligent and Interactive Systems and Applications Madjid Tavana 2020-12-17 This book reports on the proceeding of the 5th International Conference on Intelligent, Interactive Systems and Applications (IISA 2020), held in Shanghai, China, on September 25–27, 2020. The IISA proceedings, with the latest scientific findings, and methods for solving intriguing problems, are a reference for state-of-the-art works on intelligent and interactive systems. This book covers nine interesting and current topics on different systems' orientations, including Analytical Systems, Database Management Systems, Electronics Systems, Energy Systems, Intelligent Systems, Network Systems, Optimization Systems, and Pattern Recognition Systems and Applications. The chapters included in this book cover significant recent developments in the field, both in terms of theoretical foundations and their practical application. An important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems.

Modern Techniques for Agricultural Disease Management and Crop Yield Prediction Pradeep, N. 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.

Intelligent Computing Kohei Arai 2020-07-03 This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings. Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

Microbiology of Fruits and Vegetables Gerald M. Sapers 2005-08-29 Fresh and fresh-cut fruits and vegetables have an excellent safety record. However, surveillance data from the U.S. Centers for Disease Control and Prevention and recent foodborne illness outbreaks have demonstrated that the incidence of foodborne illnesses linked to the consumption of contaminated fresh fruit and vegetable products may in fact be

Cyber-Physical Systems: Modelling and Intelligent Control Alla G. Kravets 2021-05-13 This book highlights original approaches of modelling and intelligent control of cyber-physical systems covering both theoretical and practical aspects. The novel contribution of the book covers the transformation of scientific research and their results into applications for cyber-physical systems design and operation during the whole life cycle in different domains. Given its scope, the book offers an excellent reference book for researchers and other readers in the fields of cyber-physical systems modelling and intelligent control, space exploration and practical implementation of cyber-physical systems. The book also benefits researchers and practitioners in artificial intelligence and machine learning, as described results can be applied in cyber-physical systems design and cost-effectively maintenance. The target audience of this book also includes practitioners and experts, as well as state authorities and representatives of international organizations interested in creating mechanisms for implementing Cyber-Physical Systems projects.

Social Computing Wanxiang Che 2016-07-30 This two volume set (CCIS 623 and 634) constitutes the refereed proceedings of the Second International Conference of Young Computer Scientists, Engineers and Educators, ICYCSEE 2016, held in Harbin, China, in August 2016. The 91 revised full papers presented were carefully reviewed and selected from 338 submissions. The papers are organized in topical sections on Research Track (Part I) and Education Track, Industry Track, and Demo Track (Part II) and cover a wide range of topics related to social computing, social media, social network analysis, social modeling, social recommendation, machine learning, data mining.

Mycotoxins in Fruits and Vegetables R. Barkai-Golan 2011-09-02 Mycotoxins are toxins produced by aerobic, microscopic fungus under special conditions of moisture and temperature. They colonize in a variety of foods from harvest to the grocer. Mycotoxins have gained world wide interest in recent years with the revelation of the effect of these toxins on health. A current example is the presence of ochratoxin A, a human carcinogen and nephrotoxin, in wines. The increased concern about fruit safety has led to increased studies throughout the world and enhanced awareness for stringent regulations governing mycotoxin limits in food. Presented in three defined sections, this is the first book to provide comprehensive analysis of the main mycotoxins contaminating fruits and vegetables and their derived products. The first section provides a safety evaluation of mycotoxins in fruits and vegetables, details regarding factors affecting mycotoxin production and diffusion in the fruit tissue, and recent methods for detection of mycotoxigenic fungi and mycotoxins produced by the fungi. The second part takes a critical look at the main individual mycotoxins and the third section focuses on approaches for prevention and control. * The first book dedicated to mycotoxins in fruits and vegetables * Presents mycological, mycotoxicological and phytopathological aspects of fruits and vegetables * Includes an analysis of detection, prevention and control methods for mycotoxigenic fungi and the mycotoxins they produce * Provides a complete risk assessment and safety evaluation of mycotoxins in perishable produce

Computational Science and Its Applications – ICCSA 2020 Osvaldo Gervasi 2020-09-30 The seven volumes LNCS 12249-12255 constitute the refereed proceedings of the 20th International Conference on Computational Science and Its Applications, ICCSA 2020, held in Cagliari, Italy, in July 2020. Due to COVID-19 pandemic the conference was organized in an online event. Computational Science is the main pillar of most of the present research, industrial and commercial applications, and plays a unique role in exploiting ICT innovative technologies. The 466 full papers and 32 short papers presented were carefully reviewed and selected from 1450 submissions. Apart from the general track, ICCSA 2020 also include 52 workshops, in various areas of computational sciences, ranging from computational science technologies, to specific areas of computational sciences, such as software engineering, security, machine learning and artificial intelligence, blockchain technologies, and of applications in many fields.

Fundamentals of Agricultural and Field Robotics Manoj Karkee 2021 Over the past century, mechanization has been an important means for optimizing resource utilization, improving worker health and safety and reducing labor requirements in farming while increasing productivity and quality of 4F (Food, Fuel, Fiber, Feed). Recognizing this contribution, agricultural mechanization was considered as one of the top ten engineering achievements of 20th century by the National Academy of Engineering. Accordingly farming communities have adopted increasing level of automation and robotics to further improve the precision management of crops (including input resources), increase productivity and reduce farm labor beyond what has been possible with conventional mechanization technologies. It is more important than ever to continue to develop and adopt novel automation and robotic solutions into farming so that some of the most complex agricultural tasks, which require huge amount of seasonal labor such as fruit and vegetable harvesting, could be automated while meeting the rapidly increasing need for 4F. In addition, continual innovation in and adoption of agricultural automation and robotic technologies is essential to minimize the use of depleting resources including water, minerals and other chemicals so that sufficient amount of safe and

healthy food can be produced for current generation while not compromising the potential for the future generation. This book aims at presenting the fundamental principles of various aspects of automation and robotics as they relate to production agriculture (the branch of agriculture dealing with farming operations from field preparation to seeding, to harvesting and field logistics). The building blocks of agricultural automation and robotics that are discussed in the book include sensing and machine vision, control, guidance, manipulation and end-effector technologies. The fundamentals and operating principles of these technologies are explained with examples from cutting-edge research and development currently going on around the word. This book brings together scientists, engineers, students and professionals working in these and related technologies to present their latest examples of agricultural automation and robotics research, innovation and development while explaining the fundamentals of the technology. The book, therefore, benefits those who wish to develop novel agricultural engineering solutions and/or to adopt them in the future. .

Intelligent Computing Theories and Methodologies De-Shuang Huang 2015-08-10 This two-volume set LNCS 9225 and LNCS 9226 constitutes - in conjunction with the volume LNAI 9227 - the refereed proceedings of the 11th International Conference on Intelligent Computing, ICIC 2015, held in Fuzhou, China, in August 2015. The total of 191 full and 42 short papers presented in the three ICIC 2015 volumes was carefully reviewed and selected from 671 submissions. The papers are organized in topical sections such as evolutionary computation and learning; compressed sensing, sparse coding and social computing; neural networks, nature inspired computing and optimization; pattern recognition and signal processing; image processing; biomedical informatics theory and methods; differential evolution, particle swarm optimization and niche technology; intelligent computing and knowledge discovery and data mining; soft computing and machine learning; computational biology, protein structure and function prediction; genetic algorithms; artificial bee colony algorithms; swarm intelligence and optimization; social computing; information security; virtual reality and human-computer interaction; healthcare informatics theory and methods; unsupervised learning; collective intelligence; intelligent computing in robotics; intelligent computing in communication networks; intelligent control and automation; intelligent data analysis and prediction; gene expression array analysis; gene regulation modeling and analysis; protein-protein interaction prediction; biology inspired computing and optimization; analysis and visualization of large biological data sets; motif detection; biomarker discovery; modeling; simulation; and optimization of biological systems; biomedical data modeling and mining; intelligent computing in biomedical signal/image analysis; intelligent computing in brain imaging; neuroinformatics; cheminformatics; intelligent computing in computational biology; computational genomics; special session on biomedical data integration and mining in the era of big data; special session on big data analytics; special session on artificial intelligence for ambient assisted living; and special session on swarm intelligence with discrete dynamics.

Computer and Computing Technologies in Agriculture IV Daoliang Li 2011-02-01 This book constitutes Part I of the refereed four-volume post-conference proceedings of the 4th IFIP TC 12 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2010, held in Nanchang, China, in October 2010. The 352 revised papers presented were carefully selected from numerous submissions. They cover a wide range of interesting theories and applications of information technology in agriculture, including simulation models and decision-support systems for agricultural production, agricultural product quality testing, traceability and e-commerce technology, the application of information and communication

technology in agriculture, and universal information service technology and service systems development in rural areas.

Irradiation of Food Commodities Ioannis S. Arvanitoyannis 2010-06-25 The irradiation of food is a low cost, highly effective method of ensuring food safety, and extending shelf life. Public acceptance of irradiation, despite its benefits, however, has been a significant challenge. Irradiation of Food Commodities is the first holistic book that looks not only at the techniques, application and legislation of this method, but also addresses the concern of public opinion. Organized into logical themes and written by experts from industry, academia and research, this book will meet the needs of those working or considering the use of irradiation in their work. Sections focus on legislation, irradiation techniques and materials; detection and risk assessment; application of irradiation on food and consumer opinion. Insights into regulations from a variety of countries provides important information on government strategies Extensive coverage of applications, from animal food to food for human consumption, and disinfestation explores the various potential application opportunities available for consideration Addresses risk assessment -- key to governmental and more importantly consumer acceptance All topics in one volume for the first time provides complete vision of the technology

Intelligence in the Era of Big Data Rolly Intan 2015-03-12 This book constitutes the refereed proceedings of the 4th International Conference on Soft Computing, Intelligent Systems, and Information Technology, ICSIIT 2015, held in Bali, Indonesia, in March 2015. The 34 revised full papers presented together with 19 short papers, one keynote and 2 invited talks were carefully reviewed and selected from 92 submissions. The papers cover a wide range of topics related to intelligence in the era of Big Data, such as fuzzy logic and control system; genetic algorithm and heuristic approaches; artificial intelligence and machine learning; similarity-based models; classification and clustering techniques; intelligent data processing; feature extraction; image recognition; visualization techniques; intelligent network; cloud and parallel computing; strategic planning; intelligent applications; and intelligent systems for enterprise, government and society.

Bio-Imaging Rajagopal Vadivambal 2015-08-27 Highlights the Emergence of Image Processing in Food and AgricultureIn addition to uses specifically related to health and other industries, biological imaging is now being used for a variety of applications in food and agriculture. Bio-Imaging: Principles, Techniques, and Applications fully details and outlines the processes of bio-imaging applica

Big Data Analytics and Computational Intelligence for Cybersecurity Mariya Ouaissa This book presents a collection of state-of-the-art artificial intelligence and big data analytics approaches to cybersecurity intelligence. It illustrates the latest trends in AI/ML-based strategic defense mechanisms against malware, vulnerabilities, cyber threats, as well as proactive countermeasures. It also introduces other trending technologies, such as blockchain, SDN, and IoT, and discusses their possible impact on improving security. The book discusses the convergence of AI/ML and big data in cybersecurity by providing an overview of theoretical, practical, and simulation concepts of computational intelligence and big data analytics used in different approaches of security. It also displays solutions that will help analyze complex patterns in user data and ultimately improve productivity. This book can be a source for researchers, students, and practitioners interested in the fields of artificial intelligence,

cybersecurity, data analytics, and recent trends of networks.

Artificial Intelligence and Mobile Services – AIMS 2018 Marco Aiello 2018-06-20 This book constitutes the proceedings of the International Conference on Artificial Intelligence and Mobile Services, AIMS 2018, held as part of SCF 2018, in Seattle, WA, USA, in June 2018. The 20 papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers cover different aspects of mobile services from business management to computing systems, algorithms and applications. They promote technological technological innovations in research and development of mobile services, including, but not limited to, wireless and sensor networks, mobile and wearable computing, mobile enterprise and eCommerce, ubiquitous collaborative and social services, machine-to-machine and Internet-of-things, clouds, cyber-physical integration, and big data analytics for mobility-enabled services

Computer Vision and Image Processing Balasubramanian Raman 2022-07-23 This two-volume set (CCIS 1567-1568) constitutes the refereed proceedings of the 6h International Conference on Computer Vision and Image Processing, CVIP 2021, held in Rupnagar, India, in December 2021. The 70 full papers and 20 short papers were carefully reviewed and selected from the 260 submissions. The papers present recent research on such topics as biometrics, forensics, content protection, image enhancement/super-resolution/restoration, motion and tracking, image or video retrieval, image, image/video processing for autonomous vehicles, video scene understanding, human-computer interaction, document image analysis, face, iris, emotion, sign language and gesture recognition, 3D image/video processing, action and event detection/recognition, medical image and video analysis, vision-based human GAIT analysis, remote sensing, and more.

Communications, Signal Processing, and Systems Qilian Liang 2020-04-04 This book brings together papers from the 2019 International Conference on Communications, Signal Processing, and Systems, which was held in Urumqi, China, on July 20–22, 2019. Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields, the book spans topics ranging from communications to signal processing and systems. It is chiefly intended for undergraduate and graduate students in electrical engineering, computer science and mathematics, researchers and engineers from academia and industry, as well as government employees.

Man-Machine Interactions 5 Aleksandra Gruca 2017-09-17 This Proceedings book provides essential insights into the current state of research in the field of human–computer interactions. It presents the outcomes of the International Conference on Man–Machine Interactions (ICMMI 2017), held on October 3–6, 2017, in Cracow, Poland, which offers a unique international platform for researchers and practitioners to share cutting-edge developments related to technologies, algorithms, tools and systems focused on the means by which humans interact and communicate with computers. This book is the 5th edition in the series and includes a unique selection of high-quality, original papers highlighting the latest theoretical and practical research on technologies, applications and challenges encountered in the rapidly evolving new forms of human–machine relationships. Major research topics covered include human–computer interfaces, bio-data analysis and mining, image analysis and signal processing, decision support and expert systems, pattern recognition, algorithms and optimisations, computer networks, and data management systems. As such, the book offers a

valuable resource for researchers in academia, industry and other fields whose work involves man–machine interactions.

Computer Vision: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2018-02-02 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: Concepts, Methodologies, Tools, and Applications is an innovative reference source for the latest academic material on development of computers for gaining understanding about videos and digital images. Highlighting a range of topics, such as computational models, machine learning, and image processing, this multi-volume book is ideally designed for academicians, technology professionals, students, and researchers interested in uncovering the latest innovations in the field.

Proceedings of the 3rd International Symposium on Big Data and Cloud Computing Challenges (ISBCC – 16') V. Vijayakumar 2016-02-22 This proceedings volume contains selected papers that were presented in the 3rd International Symposium on Big data and Cloud Computing Challenges, 2016 held at VIT University, India on March 10 and 11. New research issues, challenges and opportunities shaping the future agenda in the field of Big Data and Cloud Computing are identified and presented throughout the book, which is intended for researchers, scholars, students, software developers and practitioners working at the forefront in their field. This book acts as a platform for exchanging ideas, setting questions for discussion, and sharing the experience in Big Data and Cloud Computing domain.

Intelligent Systems and Computer Technology D.J. Hemanth 2020-12-15 Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems and computer technology.

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications

César San Martin 2011-11-12 This book constitutes the refereed proceedings of the 16th Iberoamerican Congress on Pattern Recognition, CIARP 2011, held in Pucón, Chile, in November 2011. The 81 revised full papers presented together with 3 keynotes were carefully reviewed and selected from numerous submissions. Topics of interest covered are image processing, restoration and segmentation; computer vision; clustering and artificial intelligence; pattern recognition and classification; applications of pattern recognition; and Chilean Workshop on Pattern Recognition.

Algorithms in Machine Learning Paradigms Jyotsna Kumar Mandal 2020-01-03 This book presents studies involving algorithms in the machine learning paradigms. It discusses a variety of learning problems with diverse applications, including prediction, concept learning, explanation-based learning, case-based (exemplar-based) learning, statistical rule-based learning, feature extraction-based learning, optimization-based learning, quantum-inspired learning, multi-criteria-based learning and hybrid intelligence-based learning.

Pattern Recognition Karina Mariela Figueroa Mora 2020-06-17 This book constitutes the proceedings of the 12th Mexican Conference on Pattern Recognition, MCPR 2020, which was due to be held in Morelia, Mexico, in June 2020. The conference was held virtually due to the COVID-19 pandemic. The 31 papers presented in this volume were carefully reviewed and selected from 67 submissions. They were organized in the following topical sections: pattern recognition techniques; image processing and analysis; computer vision; industrial and medical applications of pattern recognition; natural language processing and recognition; artificial intelligence techniques and recognition.

Bibliography of Agriculture 1965