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KEY=DAY - MATA FINN

PROCEEDINGS OF THE 12TH INTERNATIONAL CONFERENCE ON SOFT COMPUTING AND PATTERN RECOGNITION (SOCPAR 2020)

Springer Nature This book highlights the recent research on soft computing and pattern recognition and their various practical applications. It presents 62 selected papers from the 12th International Conference on Soft Computing and Pattern Recognition (SoCPaR 2020) and 35 papers from the 16th International Conference on Information Assurance and Security (IAS 2020), which was held online, from December 15 to 18, 2020. A premier conference in the field of artificial intelligence, SoCPaR-IAS 2020 brought together researchers, engineers and practitioners whose work involves intelligent systems, network security and their applications in industry. Including contributions by authors from 40 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

BIOTECHNOLOGY PROVIDES NEW TOOLS FOR PLANT BREEDING

UCANR Publications

GB/T-2021, GB-2021 -- CHINESE NATIONAL STANDARD PDF-ENGLISH, CATALOG (YEAR 2021)

CHINESE NATIONAL STANDARD: GB SERIES OF YEAR 2021

<https://www.chinesestandard.net> This document provides the comprehensive list of Chinese National Standards - Category: GB, GB/T Series of year 2021.

BOTANY IN A DAY

THE PATTERNS METHOD OF PLANT IDENTIFICATION : AN HERBAL FIELD GUIDE TO PLANT FAMILIES OF NORTH AMERICA

Hops Press Explains the patterns method of plant identification, describing eight key patterns for recognizing more than 45,000 species of plants, and includes an illustrated reference guide to plant families.

SMART TRENDS IN COMPUTING AND COMMUNICATIONS

Springer Nature

DATA MINING AND METHODS FOR EARLY DETECTION, HORIZON SCANNING, MODELLING, AND RISK ASSESSMENT OF INVASIVE SPECIES

Frontiers Media SA Invasive alien species are non-indigenous taxa introduced to areas beyond their natural distribution and bio-geographical barriers by human activity, with important impacts on biodiversity, human health and ecosystem services. With the human population being higher than ever before and increasing, together with unprecedented rates of mobility of humans and goods, the introduction of new invasive species is more common than ever and is at the forefront of research in many disciplines such as ecology, epidemiology and food security. The mechanisms of successful introduction, establishment and spread of invasive alien species are highly complex as biological, social, geographic, economic and climatic factors influence the way an invasive species is introduced and determine the options available for its eventual detection and control. With the rapid development of smart sensors, social networks, digital maps and remotely-sensed imagery, spatio-temporal data are more ubiquitous and richer than ever before. The availability of such large datasets (Big data) poses great challenges in data analysis. In addition, increased availability of computing power facilitates the use of computationally-intensive methods for the analysis of such data. Thus new methods are needed to efficiently study and understand biological invasions. A Research Topic held in Frontiers Environmental Informatics aimed to address this topic. Methods are defined in the widest terms and may be analytical, practical or conceptual. Among others, a key aim of the thematic was to maximize the use of the proposed methods/techniques by the scientific community and environmental stakeholders.

HONORING NATURE'S HEALERS: BIOREGIONAL ETHNOBOTANICAL STUDY OF WILD MEDICINAL PLANTS OF KATHLEEN, FL IN THE GREATER GREEN SWAMP

Lulu.com This is a local study of wild medicinal plants in the Greater Green Swamp, what is changing, and why. It looks at what has happened to drained and logged swampland, where soil at the top of Bone Valley, recovering from an extended hydroperiod has become home to a number of pan tropical medicinal plants. Eight of the common wild medicinal plants in Kathleen, FL are looked at from a point of view of their value in history, how these plants are treated in the United States, and how they are used all around the world.

SIGNAL PROCESSING, IMAGE PROCESSING AND PATTERN RECOGNITION

INTERNATIONAL CONFERENCES, SIP 2011, HELD AS PART OF THE FUTURE GENERATION INFORMATION TECHNOLOGY CONFERENCE, FGIT 2011, IN CONJUNCTION WITH GDC 2011, JEJU ISLAND, KOREA, DECEMBER 8-10, 2011. PROCEEDINGS

Springer This book comprises selected papers of the International Conference on Signal Processing, Image Processing and Pattern Recognition, SIP 2011, held as Part of the Future Generation Information Technology Conference, FGIT 2011, in Conjunction with GDC 2011, in Conjunction with GDC 2011, Jeju Island, Korea, in December 2011. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of signal processing, image processing and pattern recognition.

FORAGING MARYLAND, VIRGINIA, AND WASHINGTON, DC

FINDING, IDENTIFYING, AND PREPARING EDIBLE WILD FOODS

Rowman & Littlefield Through the seasons, Maryland, Virginia, and Washington D.C. offer a continually changing list of wild, harvestable treasures. This full-color book guides you to the edible wild foods and healthful herbs of the regions and will help you identify and appreciate the local bounty. Inside you'll find: Detailed descriptions of edible plants Tips on finding, preparing, and using foraged foods A glossary of botanical terms Full-color photos

PATTERN RECOGNITION APPLICATIONS IN ENGINEERING

IGI Global The implementation of data and information analysis has become a trending solution within multiple professions. New tools and approaches are continually being developed within data analysis to further solve the challenges that come with professional strategy. Pattern recognition is an innovative method that provides comparison techniques and defines new characteristics within the information acquisition process. Despite its recent trend, a considerable amount of research regarding pattern recognition and its various strategies is lacking. Pattern Recognition Applications in Engineering is an essential reference source that discusses various strategies of pattern recognition algorithms within industrial and research applications and provides examples of results in different professional areas including electronics, computation, and health monitoring. Featuring research on topics such as condition monitoring, data normalization, and bio-inspired developments, this book is ideally designed for analysts; researchers; civil, mechanical, and electronic engineers; computing scientists; chemists; academicians; and students.

STRENGTHENING FORENSIC SCIENCE IN THE UNITED STATES

A PATH FORWARD

National Academies Press Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

BOTANY IN A DAY

THE PATTERNS METHOD OF PLANT IDENTIFICATION

Hops Press Explains the patterns method of plant identification, describing seven key patterns for recognizing more than 45,000 species of plants, and includes an illustrated reference guide to plant families.

PATTERN RECOGNITION

26TH DAGM SYMPOSIUM, AUGUST 30 - SEPTEMBER 1, 2004, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 26th Symposium of the German Association for Pattern Recognition, DAGM 2004, held in Tbingen, Germany in August/September 2004. The 22 revised papers and 48 revised poster papers presented were carefully reviewed and selected from 146 submissions. The papers are organized in topical sections on learning, Bayesian approaches, vision and faces, vision and motion, biologically motivated approaches, segmentation, object recognition, and object recognition and synthesis.

PROCEEDINGS OF INTERNATIONAL CONFERENCE ON MACHINE INTELLIGENCE AND DATA SCIENCE APPLICATIONS

MIDAS 2020

Springer Nature This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, on September 4 and 5, 2020. The book starts by addressing the algorithmic aspect of machine intelligence which includes the framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like image processing, natural language processing, computer vision, sentiment analysis, and speech and gesture analysis have been included with upfront details. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber physical system and smart agriculture. The book is a good reference for computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

PATTERN RECOGNITION

44TH DAGM GERMAN CONFERENCE, DAGM GCPR 2022, KONSTANZ, GERMANY, SEPTEMBER 27-30, 2022, PROCEEDINGS

Springer Nature This book constitutes the refereed proceedings of the 44th DAGM German Conference on Pattern Recognition, DAGM GCPR 2022, which was held during September 27 - 30, 2022. The 37 papers presented in this volume were carefully reviewed and selected from 78 submissions. They were organized in topical sections as follows: machine learning methods; unsupervised, semi-supervised and transfer learning; interpretable machine learning; low-level vision and computational photography; motion, pose estimation and tracking; 3D vision and stereo; detection and recognition; language and vision; scene understanding; photogrammetry and remote sensing; pattern recognition in the life and natural sciences; systems and applications.

AN INTRODUCTION TO HACCP

Lulu.com By reading each chapter of this book, a food operator, technologist, coordinator and manager would be in a position to independently manage a HACCP system based on legal, scientific and consumers demand. This book is intended to provide a detailed discussion of diverse subjects with relation to food safety related to bakery, beverage, dairy, fish, and meat industries. It is well suited for under-graduate, post-graduate university students who are in dairy or food technology fields needing education in food safety and the HACCP system. This book will equally serve the food processing courses, industry sponsored courses and in plant HACCP training courses for the staff.

CONCEPTS AND REAL-TIME APPLICATIONS OF DEEP LEARNING

Springer Nature This book provides readers with a comprehensive and recent exposition in deep learning and its multidisciplinary applications, with a concentration on advances of deep learning architectures. The book discusses various artificial intelligence (AI) techniques based on deep learning architecture with applications in natural language processing, semantic knowledge, forecasting and many more. The authors shed light on various applications that can benefit from the use of deep learning in pattern recognition, person re-identification in surveillance videos, action recognition in videos, image and video captioning. The book also highlights how deep learning concepts can be interwoven with more modern concepts to yield applications in multidisciplinary fields. Presents a comprehensive look at deep learning and its multidisciplinary applications, concentrating on advances of deep learning architectures; Includes a survey of deep learning problems and solutions, identifying the main open issues, innovations and latest technologies; Shows industrial deep learning in practice with examples/cases, efforts, challenges, and strategic approaches.

DATA ENGINEERING AND INTELLIGENT COMPUTING

PROCEEDINGS OF IC3T 2016

Springer The book is a compilation of high-quality scientific papers presented at the 3rd International Conference on Computer & Communication Technologies (IC3T 2016). The individual papers address cutting-edge technologies and applications of soft computing, artificial intelligence and communication. In addition, a variety of further topics are discussed, which include data mining, machine intelligence, fuzzy computing, sensor networks, signal and image processing, human-computer interaction, web intelligence, etc. As such, it offers readers a valuable and unique resource.

EMERGING TECHNOLOGIES IN DATA MINING AND INFORMATION SECURITY

PROCEEDINGS OF IEMIS 2018, VOLUME 3

Springer 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.

PLANT ADAPTATION AND CROP IMPROVEMENT

IRRI An overview of crop improvement; Analysis of genotype by environment interactions; Interpretation of genotype by environment interactions; Integrated approaches to plant improvement; Synthesis of strategies for crop improvement.

A METHODOLOGY FOR ON-FARM CROPPING SYSTEMS RESEARCH

Int. Rice Res. Inst.

THE ALGORITHMIC BEAUTY OF PLANTS

Springer Science & Business Media Now available in an affordable softcover edition, this classic in Springer's acclaimed Virtual Laboratory series is the first comprehensive account of the computer simulation of plant development. 150 illustrations, one third of them in colour, vividly demonstrate the spectacular results of the algorithms used to model plant shapes and developmental processes. The latest in computer-generated images allow us to look at plants growing, self-replicating, responding to external factors and even mutating, without becoming entangled in the underlying mathematical formulae involved. The authors place particular emphasis on Lindenmayer systems - a notion conceived by one of the authors, Aristid Lindenmayer, and internationally recognised for its exceptional elegance in modelling biological phenomena. Nonetheless, the two authors take great care to present a survey of alternative methods for plant modelling.

PATTERN RECOGNITION. ICPR INTERNATIONAL WORKSHOPS AND CHALLENGES

VIRTUAL EVENT, JANUARY 10-15, 2021, PROCEEDINGS, PART IV

Springer Nature This 8-volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops, ICPR 2020, held virtually in Milan, Italy and rescheduled to January 10 - 11, 2021 due to Covid-19 pandemic. The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions. The 46 workshops cover a wide range of areas including machine learning, pattern analysis, healthcare, human behavior, environment, surveillance, forensics and biometrics, robotics and egovision, cultural heritage and document analysis, retrieval, and women at ICPR2020.

HANDBOOK OF RESEARCH ON EMERGING PERSPECTIVES IN INTELLIGENT PATTERN RECOGNITION, ANALYSIS, AND IMAGE PROCESSING

IGI Global
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APPLIED COMPUTING TO SUPPORT INDUSTRY: INNOVATION AND TECHNOLOGY

FIRST INTERNATIONAL CONFERENCE, ACRIT 2019, RAMADI, IRAQ, SEPTEMBER 15-16, 2019, REVISED SELECTED PAPERS

Springer Nature This book constitutes the refereed proceedings of the First International Conference on Applied Computing to Support Industry: Innovation and Technology, ACRIT 2019, held in Ramadi, Iraq, in September 2019. The 38 revised full papers and 1 short paper were carefully reviewed and selected from 159 submissions. The papers of this volume are organized in topical sections on theory, methods and tools to support computer science; computer security and cryptography; computer network and communication; real world application in information science and technology.

DISPERSAL IN PLANTS

A POPULATION PERSPECTIVE

Oxford University Press This book is the first text in many years to comprehensively describe our state of knowledge of dispersal in plants. It brings together information from ecological field studies and theoretical modelling, exploring the implications of one for the other. It begins with the adaptations and dispersal of individual seeds, but then, unlike previous books, goes on to examine this in the context of entire plant populations and evolution. It therefore fills a significant gap on the bookshelf of both research ecologists and those involved actively in managing vegetation. The authors draw on a wealth of experience in the study of both natural vegetation and agricultural systems, from field ecology to theoretical modelling and in northern and southern hemispheres.

GB/T-2018, GB-2018 -- CHINESE NATIONAL STANDARD PDF-ENGLISH, CATALOG (YEAR 2018)

CHINESE NATIONAL STANDARD: GB SERIES OF YEAR 2018

<https://www.chinesestandard.net> This document provides the comprehensive list of Chinese National Standards - Category: GB, GB/T Series of year 2018.

RICE GENETICS III

PROCEEDINGS OF THE THIRD INTERNATIONAL RICE GENETICS SYMPOSIUM, MANILA, PHILIPPINES, 16-20 OCTOBER 1995

Int. Rice Res. Inst. Plenary session papers; I: Varietal differentiation and evolution; II: Genetics of morphological and physiological traits; III: Genetics of disease resistance; IV: Cytogenetics; V: Tissue and cell culture; VI: Molecular mapping of genes; VII: Map-based gene cloning; VIII: Molecular genetics of cytoplasmic male sterility; IX: Transformation; X: Gene isolation, characterization, and expression; XI: Genetic diversity in pathogen populations; XII: Rice research priorities.

RECENT TRENDS IN IMAGE PROCESSING AND PATTERN RECOGNITION

SECOND INTERNATIONAL CONFERENCE, RTIP2R 2018, SOLAPUR, INDIA, DECEMBER 21-22, 2018, REVISED SELECTED PAPERS, PART I

Springer This three-volume set constitutes the refereed proceedings of the Second International Conference on Recent Trends in Image Processing and Pattern Recognition (RTIP2R) 2018, held in Solapur, India, in December 2018. The 173 revised full papers presented were carefully reviewed and selected from 374 submissions. The papers are organized in topical sections in the three volumes. Part I: computer vision and pattern recognition; machine learning and applications; and image processing. Part II: healthcare and medical imaging; biometrics and applications. Part III: document image analysis; image analysis in agriculture; and data mining, information retrieval and applications.

MODERN TECHNIQUES FOR AGRICULTURAL DISEASE MANAGEMENT AND CROP YIELD PREDICTION

IGI Global 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.

MICROPLASTIC IN THE ENVIRONMENT: PATTERN AND PROCESS

Springer Nature This open access book examines global plastic pollution, an issue that has become a critical societal challenge with implications for environmental and public health. This volume provides a comprehensive, holistic analysis on the plastic cycle and its subsequent effects on biota, food security, and human exposure. Importantly, global environmental change and its associated, systems-level processes, including atmospheric deposition, ecosystem complexity, UV exposure, wind patterns, water stratification, ocean circulation, etc., are all important direct and indirect factors governing the fate, transport and biotic and abiotic processing of plastic particles across ecosystem types. Furthermore, the distribution of plastic in the ocean is not independent of terrestrial ecosystem dynamics, since much of the plastic in marine ecosystems originates from land and should therefore be evaluated in the context of the larger plastic cycle. Changes in species size, distribution, habitat, and food web complexity, due to global environmental change, will likely alter trophic transfer dynamics and the ecological effects of nano- and microplastics. The fate and transport dynamics of plastic particles are influenced by their size, form, shape, polymer type, additives, and overall ecosystem conditions. In addition to the risks that plastics pose to the total environment, the potential impacts on human health and exposure routes, including seafood consumption, and air and drinking water need to be assessed in a comprehensive and quantitative manner. Here I present a holistic and interdisciplinary book volume designed to advance the understanding of plastic cycling in the environment with an emphasis on sources, fate and transport, ecotoxicology, climate change effects, food security, microbiology, sustainability, human exposure and public policy.

ARTIFICIAL INTELLIGENCE AND IOT-BASED TECHNOLOGIES FOR SUSTAINABLE FARMING AND SMART AGRICULTURE

IGI Global As technology continues to saturate modern society, agriculture has started to adopt digital computing and data-driven innovations. This emergence of "smart" farming has led to various advancements in the field, including autonomous equipment and the collection of climate, livestock, and plant data. As connectivity and data management continue to revolutionize the farming industry, empirical research is a necessity for understanding these technological developments. *Artificial Intelligence and IoT-Based Technologies for Sustainable Farming and Smart Agriculture* provides emerging research exploring the theoretical and practical aspects of critical technological solutions within the farming industry. Featuring coverage on a broad range of topics such as crop monitoring, precision livestock farming, and agronomic data processing, this book is ideally designed for farmers, agriculturalists, product managers, farm holders, manufacturers, equipment suppliers, industrialists, governmental professionals, researchers, academicians, and students seeking current research on technological applications within agriculture and farming.

NUCLEAR TECHNOLOGY

REVIEW OF ADVANCES IN PLANT BIOTECHNOLOGY, 1985-88

Int. Rice Res. Inst.

COMPUTER VISION - ECCV 2020 WORKSHOPS

GLASGOW, UK, AUGUST 23-28, 2020, PROCEEDINGS, PART VI

Springer Nature The 6-volume set, comprising the LNCS books 12535 until 12540, constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th European Conference on Computer Vision, ECCV 2020. The conference was planned to take place in Glasgow, UK, during August 23-28, 2020, but changed to a virtual format due to the COVID-19 pandemic. The 249 full papers, 18 short papers, and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions. The papers deal with diverse computer vision topics. Part VI focusses on reassessing the evaluation of object detection; computer vision problems in plant phenotyping; fair face recognition and analysis; and perception through structured generative models.

ARTIFICIAL INTELLIGENCE APPLICATIONS IN SPECIALTY CROPS

Frontiers Media SA

DIGITAL IMAGING OF PLANTS

Frontiers Media SA

PROGRESS IN INTELLIGENT COMPUTING TECHNIQUES: THEORY, PRACTICE, AND APPLICATIONS

PROCEEDINGS OF ICACNI 2016, VOLUME 1

Springer The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book contains the Proceedings of 4th International Conference on Advanced Computing, Networking and Informatics. 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.

SERVICE EXPERIENCE IN FOSSIL AND NUCLEAR POWER PLANTS

PRESENTED AT THE 1999 ASME PRESSURE VESSELS AND PIPING CONFERENCE : BOSTON, MASSACHUSETTS, AUGUST 1-5, 1999

Amer Society of Mechanical Contains papers from an August 1999 conference, arranged in sections on service experience in fossil fuel plants and in operating nuclear plants, development and user experience of new methodologies of structural integrity assessment, and equipment assessments. Specific areas covered include failure

COMPUTATIONAL BOTANY

METHODS FOR AUTOMATED SPECIES IDENTIFICATION

Springer This book discusses innovative methods for mining information from images of plants, especially leaves, and highlights the diagnostic features that can be implemented in fully automatic systems for identifying plant species. Adopting a multidisciplinary approach, it explores the problem of plant species identification, covering both the concepts of taxonomy and morphology. It then provides an overview of morphometrics, including the historical background and the main steps in the morphometric analysis of leaves together with a number of applications. The core of the book focuses on novel diagnostic methods for plant species identification developed from a computer scientist's perspective. It then concludes with a chapter on the characterization of botanists' visions, which highlights important cognitive aspects that can be implemented in a computer system to more accurately replicate the human expert's fixation process. The book not only represents an authoritative guide to advanced computational tools for plant identification, but provides experts in botany, computer science and pattern recognition with new ideas and challenges. As such it is expected to foster both closer collaborations and further technological developments in the emerging field of automatic plant identification.