

# Ibm Pc And Clones By Govindarajulu

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More Java Gems Dwight Deugo 2000-01-28 This book presents the best articles and columns published in Java Report between 1997 and 1999. Each article is independent of any specific version of Java and relies mainly on those classes that are now part of the standard Java class library and APIs. Also, each article and column discusses Java topics and implementations that are not readily available in a single book. The book serves as an excellent reference to anyone involved with Java. The reader can learn more about the language, perform analysis, design and modeling, work on specific implementations, check performance, and perform testing. This book presents the good ideas of people who have used Java for "Real" applications.

Knowledge Management Tools and Techniques Madanmohan Rao 2012-06-14 Knowledge management (KM) - or the practice of using information and collaboration technologies and processes to capture organizational learning and thereby improve business performance - is becoming one of the key disciplines in management, especially in large companies. Many books, magazines, conferences, vendors, consultancies, Web sites, online communities and email lists have been formed around this concept. This practical book focuses on the vast offerings of KM solutions—technology, content, and services. The focus is not on technology details, but on how KM and IT practitioners actually use KM tools and techniques. Over twenty case studies describe the real story of choosing and implementing various KM tools and

techniques, and experts analyse the trends in the evolution of these technologies and tools, along with opportunities and challenges facing companies harnessing them. Lessons from successes and failures are drawn, along with roadmaps for companies beginning or expanding their KM practice. The introductory chapter presents a taxonomy of KM tools, identifies IT implications of KM practices, highlights lessons learned, and provides tips and recommendations for companies using these tools. Relevant literature on KM practices and key findings of market research groups and industry consortia such as IDC, Gartner and APQC, are presented. The majority of the book is devoted to case studies, featuring clients and vendors along the entire spectrum of solutions: hardware (e.g. handheld/wearable devices), software (e.g. analytics, collaboration, document management) and content (e.g. newsfeeds, market research). Each chapter is structured along the "8Cs" framework developed by the author: connectivity, content, community, commerce, community, capacity, culture, cooperation and capital. In other words, each chapter addresses how appropriate KM tools and technologies help a company on specific fronts such as fostering adequate employee access to knowledge bodies, user-friendly work-oriented content, communities of practice, a culture of knowledge, learning capacity, a spirit of cooperation, commercial and other incentives, and carefully measured capital investments and returns. Vendor history, product/service offerings, implementation details, client testimonials, ROI reports, and future trends are highlighted. Experts in the field then provide third-party analysis on trends in KM tools and technique areas, and recommendations for KM practitioners.

**Key Concepts in Management** Jonathan Sutherland 2017-04-27 Key Concepts in Management is one of a range of comprehensive glossaries with entries arranged alphabetically for easy reference. All major concepts, terms, theories and theorists are incorporated and cross-referenced. Additional reading and Internet research opportunities are identified. More complex terminology is made clearer with numerous diagrams and illustrations. With over 500 key terms defined, the book represents a comprehensive must-have reference for anyone studying a business-related course or those simply wishing to understand what management is all about. It will be especially useful as a revision aid.

**NETWORKING 2010** Mark Crovella 2010-04-23 This book constitutes the refereed proceedings of the 9th International IFIP TC6 Networking Conference, NETWORKING 2010, held in Chennai, India, in May 2010.

The 24 revised full papers and 9 work in progress papers were carefully reviewed and selected from 101 submissions for inclusion in the book. The papers cover a variety of research topics in the area of P2P and overlay networks; performance measurement; quality of service; ad hoc and sensor networks; wireless networks, addressing and routing; and applications and services.

**Doomsday Conspiracy** Sidney Sheldon 2010-06-22 Handpicked by the NSA to track down and identify the ten known witnesses to the recent crash of a weather balloon, Robert Bellamy searches for clues in Rome, Budapest, and Texas.

*Plant Tissue Culture: Propagation, Conservation and Crop Improvement* Mohammad Anis 2016-10-08 This book presents basic concepts, methodologies and applications of biotechnology for the conservation and propagation of aromatic, medicinal and other economic plants. It caters to the needs and challenges of researchers in plant biology, biotechnology, the medical sciences, pharmaceutical biotechnology and pharmacology areas by providing an accessible and cost-effective practical approach to micro-propagation and conservation strategies for plant species. It also includes illustrations describing a complete documentation of the results and research into particular plant species conducted by the authors over the past 5 years. Plant Biotechnology has been a subject of academic interest for a considerable time. In recent years, it has also become a useful tool in agriculture and medicine, as well as a popular area of biological research. Current economic growth is globally projected in a highly positive manner, but the challenges many countries face with regard to food, feed, malnutrition, infectious diseases, the newly identified life-style diseases, and energy shortages, all of which are worsened by an ever-deteriorating environment, continue to pull the growth digits back. The common thread that connects all of the above challenges is biotechnology, which could provide many answers. Molecular biology and biotechnology have now become an integral part of tissue culture research. The tremendous impact generated by genetic engineering and consequently of transgenics now allows us to manipulate plant genomes at will. There has indeed been a rapid development in this area with major successes in both developed and developing countries. The book introduces several new and exciting areas to researchers who are unfamiliar with plant biotechnology and also serves as a review of ongoing research and future directions for scholars. The book highlights numerous methods for in vitro propagation and utilization of techniques

in raising transgenics to help readers reproduce the experiments discussed.

Emerging Technologies and Management of Crop Stress Tolerance Parvaiz Ahmad 2014-05-02 Emerging Technologies and Management of Crop Stress Tolerance: Volume II - A Sustainable Approach helps readers take technological measures to alleviate plant stress and improve crop production in various environmental conditions. This resource provides a comprehensive review of how technology can be implemented to improve plant stress tolerance to increase productivity and meet the agricultural needs of the growing human population. The book considers issues of deforestation, disease prevention, climate change and drought, water and land management, and more. It will help any scientist better understand environmental stresses to improve resource management within a world of limited resources. Includes the most recent advances methods and applications of biotechnology to crop science Promotes the prevention of potential diseases to inhibit bacteria postharvest quality of fruits and vegetable crops by advancing application and research Presents a thorough account of research results and critical reviews

Encyclopedia of Indian Cinema Ashish Rajadhyaksha 2014-07-10 First Published in 1999. Routledge is an imprint of Taylor & Francis, an informa company.

India's New Capitalists H. Damodaran 2008-06-25 In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

PC Hardware. The Complete Reference. Craig Zacker 2001-01

Computer Architecture and Organization John Patrick Hayes 1998 The third edition of Computer Architecture and Organization features a comprehensive updating of the material-especially case studies, worked examples, and problem sets-while retaining the book's time-proven emphasis on basic principles. Reflecting the dramatic changes in computer technology that have taken place over the last decade, the treatment of performance-related topics such as pipelines, caches, and RISC's has been expanded. Many

examples and end-of-chapter problems have also been added.

**Methods for Risk Assessment of Transgenic Plants** Gösta Kjellsson 2012-12-06 The present work is a continuation of the work initiated in Autumn 1991, which resulted in the book, published by Birkhauser Verlag in 1994, entitled: *Methods for Risk Assessment of Transgenic Plants. I. Competition, Establishment and Ecosystem Effects*. Already when the work on volume 1 started, it was obvious to the authors, that not only the physical establishment of a transgenic plant outside the cultivated area was important for risk assessment, but also the possible gene-transfer from transgenic plants to other plants had to be considered. It was then decided to write a second volume on test methods, as a complement to the first, covering the main topics: Pollination, gene-transfer and population impacts. The main user groups for this volume are scientists and students working with plant population genetics and risk assessment and administrators with responsibility for legislation of transgenic plants. In order to cover such a broad range of topics, specialist knowledge was required. Therefore, colleagues in Denmark and Switzerland, working in these fields in relation to the concerns of using transgenic plants, were asked to participate. The result was a Danish-Swiss cooperation. A list of contributors to the book and their addresses is shown on p. VII. Financial support, which made the work possible, was given by: The National Environmental Research Institute, Denmark, the Federal Office of Environment, Forest and Landscape, Switzerland, the National Forest and Nature Agency, Denmark, the Danish Environmental Protection Agency and the European Commission, DC XI.

**A Textbook of Engineering Physics** M N Avadhanulu 1992 A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

**Recent Innovations in Computing** Pradeep Kumar Singh 2021-01-12 This book features selected papers presented at the 3rd International Conference on Recent Innovations in Computing (ICRIC 2020), held on 20–21 March 2020 at the Central University of Jammu, India, and organized by the university's

Department of Computer Science & Information Technology. It includes the latest research in the areas of software engineering, cloud computing, computer networks and Internet technologies, artificial intelligence, information security, database and distributed computing, and digital India.

*PC Based Instrumentation and Control* Mike Tooley 2013-06-17 *PC Based Instrumentation and Control* is a guide to implementing computer control, instrumentation and data acquisition using a standard PC and some of the more traditional computer languages. Numerous examples of configurations and working circuits, as well as representative software, make this a practical, hands-on guide to implementing PC-based testing and calibration systems and increasing efficiency without compromising quality or reliability. Guidance is given on modifying the circuits and software routines to meet the reader's specific needs. The third edition includes updated coverage of PC hardware and bus systems, a new chapter on virtual instruments and an introduction to programming and software development in a modern 32-bit environment. Additional examples have been included, with source code and executables available for download from the companion website [www.key2control.com](http://www.key2control.com).

*Emerging Technologies and Management of Crop Stress Tolerance* Parvaiz Ahmad 2014-04-11 *Emerging Technologies and Management of Crop Stress Tolerance: Volume 1 - Biological Techniques* presents the latest technologies used by scientists for improvement the crop production and explores the various roles of these technologies for the enhancement of crop productivity and inhibition of pathogenic bacteria that can cause disease. This resource provides a comprehensive review of how proteomics, genomics, transcriptomics, ionomics, and micromics are a pathway to improve plant stress tolerance to increase productivity and meet the agricultural needs of the growing human population. This valuable resource will help any scientist have a better understanding of environmental stresses to improve resource management within a world of limited resources. Includes the most recent advances methods and applications of biotechnology to crop science Discusses different techniques of genomics, proteomics, transcriptomics and nanotechnology Promotes the prevention of potential diseases to inhibit bacteria postharvest quality of fruits and vegetable crops by advancing application and research Presents a thorough account of research results and critical reviews

**Proceedings of the International Conference on Paradigms of Computing, Communication and Data Sciences** Mayank Dave 2021-02-19 This book presents best selected papers presented at the International Conference on Paradigms of Computing, Communication and Data Sciences (PCCDS 2020), organized by National Institute of Technology, Kurukshetra, India, during 1–3 May 2020. It discusses high-quality and cutting-edge research in the areas of advanced computing, communications and data science techniques. The book is a collection of latest research articles in computation algorithm, communication and data sciences, intertwined with each other for efficiency.

**Proceedings of ICRIC 2019** Pradeep Kumar Singh 2019-11-21 This book presents high-quality, original contributions (both theoretical and experimental) on software engineering, cloud computing, computer networks & internet technologies, artificial intelligence, information security, and database and distributed computing. It gathers papers presented at ICRIC 2019, the 2nd International Conference on Recent Innovations in Computing, which was held in Jammu, India, in March 2019. This conference series represents a targeted response to the growing need for research that reports on and assesses the practical implications of IoT and network technologies, AI and machine learning, cloud-based e-Learning and big data, security and privacy, image processing and computer vision, and next-generation computing technologies.

**System-Level Design of GPU-Based Embedded Systems** Arian Maghazeh 2018-12-07 Modern embedded systems deploy several hardware accelerators, in a heterogeneous manner, to deliver high-performance computing. Among such devices, graphics processing units (GPUs) have earned a prominent position by virtue of their immense computing power. However, a system design that relies on sheer throughput of GPUs is often incapable of satisfying the strict power- and time-related constraints faced by the embedded systems. This thesis presents several system-level software techniques to optimize the design of GPU-based embedded systems under various graphics and non-graphics applications. As compared to the conventional application-level optimizations, the system-wide view of our proposed techniques brings about several advantages: First, it allows for fully incorporating the limitations and requirements of the various system parts in the design process. Second, it can unveil optimization opportunities through exposing the information flow between the processing components. Third, the techniques are generally

applicable to a wide range of applications with similar characteristics. In addition, multiple system-level techniques can be combined together or with application-level techniques to further improve the performance. We begin by studying some of the unique attributes of GPU-based embedded systems and discussing several factors that distinguish the design of these systems from that of the conventional high-end GPU-based systems. We then proceed to develop two techniques that address an important challenge in the design of GPU-based embedded systems from different perspectives. The challenge arises from the fact that GPUs require a large amount of workload to be present at runtime in order to deliver a high throughput. However, for some embedded applications, collecting large batches of input data requires an unacceptable waiting time, prompting a trade-off between throughput and latency. We also develop an optimization technique for GPU-based applications to address the memory bottleneck issue by utilizing the GPU L2 cache to shorten data access time. Moreover, in the area of graphics applications, and in particular with a focus on mobile games, we propose a power management scheme to reduce the GPU power consumption by dynamically adjusting the display resolution, while considering the user's visual perception at various resolutions. We also discuss the collective impact of the proposed techniques in tackling the design challenges of emerging complex systems. The proposed techniques are assessed by real-life experimentations on GPU-based hardware platforms, which demonstrate the superior performance of our approaches as compared to the state-of-the-art techniques.

**Dynamically Reconfigurable Systems** Marco Platzner 2010-03-10 Dynamically Reconfigurable Systems is the first ever to focus on the emerging field of Dynamically Reconfigurable Computing Systems. While programmable logic and design-time configurability are well elaborated and covered by various texts, this book presents a unique overview over the state of the art and recent results for dynamic and run-time reconfigurable computing systems. Reconfigurable hardware is not only of utmost importance for large manufacturers and vendors of microelectronic devices and systems, but also a very attractive technology for smaller and medium-sized companies. Hence, Dynamically Reconfigurable Systems also addresses researchers and engineers actively working in the field and provides them with information on the newest developments and trends in dynamic and run-time reconfigurable systems.

**Data Analytics for Intelligent Transportation Systems** Mashrur Chowdhury 2017-04-05 Data Analytics for

Intelligent Transportation Systems provides in-depth coverage of data-enabled methods for analyzing intelligent transportation systems that includes detailed coverage of the tools needed to implement these methods using big data analytics and other computing techniques. The book examines the major characteristics of connected transportation systems, along with the fundamental concepts of how to analyze the data they produce. It explores collecting, archiving, processing, and distributing the data, designing data infrastructures, data management and delivery systems, and the required hardware and software technologies. Users will learn how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications, along with key safety and environmental applications for both commercial and passenger vehicles, data privacy and security issues, and the role of social media data in traffic planning. Includes case studies in each chapter that illustrate the application of concepts covered Presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies Contains contributors from both leading academic and commercial researchers Explains how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications

IBM PC and Clones: Hardware, Troubleshooting and Maintenance (Book Only) B. Govindarajalu 1991 Detailed coverage of hardware circuits, software concepts and interfaces, test equipments and diagnostic aids; complete hardware design at the systems and components level of an IBM PC and its clones; common problems with their detailed troubleshooting procedure; practical tips for troubleshooting and quick diagnosis; systematic analysis of the POST sequence.

Open Source Systems: Long-Term Sustainability Imed Hammouda 2012-09-22 This book constitutes the refereed proceedings of the 8th International IFIP WG 2.13 Conference on Open Source Systems, OSS 2012, held in Hammamet, Tunisia, in September 2012. The 15 revised full papers presented together with 17 lightning talks, 2 tool demonstration papers, 6 short industry papers, 5 posters and 2 workshop papers were carefully reviewed and selected from 63 submissions. The papers are organized in topical sections on collaboration and forks in OSS projects, community issues, open education and peer-production models, integration and architecture, business ecosystems, adoption and evolution of OSS, OSS quality,

OSS in different domains, product development, and industrial experiences.

**Ibm Pc And Clones: Hardware, Troubleshooting And Maintenance (Book Only)** B. Govindaraju 2002

Detailed coverage of hardware circuits, software concepts and interfaces, test equipments and diagnostic aids; complete hardware design at the systems and components level of an IBM PC and its clones; common problems with their detailed troubleshooting procedure; practical tips for troubleshooting and quick diagnosis; systematic analysis of the POST sequence.

*Maize Kernel Development* Brian A Larkins 2017-11-21 This is an authoritative book that acts as a guide to understanding maize kernel development. Written by a team of experts, it covers topics spanning pre- and post-fertilization events, embryo and endosperm development, grain filling and maturation, and factors influencing crop yield. It explores the significance of maize and other cereal grains, existing hypotheses and research, and important gaps in our knowledge and how we might fill them. This is a valuable resource for researchers of maize and other cereals, and anyone working on basic or applied science in the fields of seed development, plant genetics, and crop physiology.

*Computer Architecture & Organization* B. Govindarajalu 2010 Computer Architecture and Organization: Design Principles and Applications provides a comprehensive coverage of the architecture and organization of modern computers. Based on a practitioner's insights, the book focuses on the basic principles and dwells.

Global Entertainment Media Tanner Mirrlees 2013-03-14 A critical cultural materialist introduction to the study of global entertainment media. In *Global Entertainment Media*, Tanner Mirrlees undertakes an analysis of the ownership, production, distribution, marketing, exhibition and consumption of global films and television shows, with an eye to political economy and cultural studies. Among other topics, Mirrlees examines: Paradigms of global entertainment media such as cultural imperialism and cultural globalization. The business of entertainment media: the structure of capitalist culture/creative industries (financers, producers, distributors and exhibitors) and trends in the global political economy of entertainment media. The "governance" of global entertainment media: state and inter-state media and cultural policies and

regulations that govern the production, distribution and exhibition of entertainment media and enable or impede its cross-border flow. The new international division of cultural labor (NICL): the cross-border production of entertainment by cultural workers in asymmetrically interdependent media capitals, and economic and cultural concerns surrounding runaway productions and co-productions. The economic motivations and textual design features of globally popular entertainment forms such as blockbuster event films, TV formats, glocalised lifestyle brands and synergistic media. The cross-cultural reception and effects of TV shows and films. The World Wide Web, digitization and convergence culture.

**Distributed and Cloud Computing** Kai Hwang 2013-12-18 Distributed and Cloud Computing: From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing. It is the first modern, up-to-date distributed systems textbook; it explains how to create high-performance, scalable, reliable systems, exposing the design principles, architecture, and innovative applications of parallel, distributed, and cloud computing systems. Topics covered by this book include: facilitating management, debugging, migration, and disaster recovery through virtualization; clustered systems for research or ecommerce applications; designing systems as web services; and social networking systems using peer-to-peer computing. The principles of cloud computing are discussed using examples from open-source and commercial applications, along with case studies from the leading distributed computing vendors such as Amazon, Microsoft, and Google. Each chapter includes exercises and further reading, with lecture slides and more available online. This book will be ideal for students taking a distributed systems or distributed computing class, as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud, P2P and grid computing. Complete coverage of modern distributed computing technology including clusters, the grid, service-oriented architecture, massively parallel processors, peer-to-peer networking, and cloud computing Includes case studies from the leading distributed computing vendors: Amazon, Microsoft, Google, and more Explains how to use virtualization to facilitate management, debugging, migration, and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course—each chapter includes exercises and further reading, with lecture slides and more available online

**Proceedings of International Conference on Computational Intelligence and Data Engineering Nabendu Chaki 2018-01-10** The book presents high quality research work in cutting edge technologies and most-happening areas of computational intelligence and data engineering. It contains selected papers presented at International Conference on Computational Intelligence and Data Engineering (ICCIDE 2017). The conference was conceived as a forum for presenting and exchanging ideas and results of the researchers from academia and industry onto a common platform and help them develop a comprehensive understanding of the challenges of technological advancements from different viewpoints. This book will help in fostering a healthy and vibrant relationship between academia and industry. The topics of the conference include, but are not limited to collective intelligence, intelligent transportation systems, fuzzy systems, Bayesian network, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing.

**Plant Microbe Interface Ajit Varma 2019-08-02** This book shares the latest insights into the genetic basis of molecular communication between plants and their microbial consortia. Further, the book highlights the capabilities of the rhizosphere and endosphere, which help manage ecosystem responses to climate change, nutrient cycling and sequestration of carbon; and discusses their application to the development and management of renewable energy sources. In their natural environments, plants are surrounded by a tremendous number of microorganisms. Some microbes directly interact with plants in a mutually beneficial fashion, while others colonize plants solely for their own advantage. In addition, microbes can indirectly affect plants by drastically altering their environments. Understanding the complex nature of the plant-microbe interface (PMI) can pave the way for novel strategies to improve plant productivity in an eco-friendly manner. The PMI approach focuses on understanding the physical, molecular, and chemical interactions between organisms in order to determine their functional roles in biological, physical, chemical and environmental systems. Although several metabolites from plants and microbes have now been fully characterized, their roles in chemical interactions between these associates remain poorly understood, and require further investigation.

**Nanobiotechnology Applications in Plant Protection Kamel A. Abd-Elsalam 2019-10-04** Nanobiotechnology

Applications in Plant Protection: Volume 2 continues the important and timely discussion of nanotechnology applications in plant protection and pathology, filling a gap in the literature for nano applications in crop protection. Nanobiopesticides and nanobioformulations are examined in detail and presented as powerful alternatives for eco-friendly management of plant pathogens and nematodes. Leading scholars discuss the applications of nanobiomaterials as antimicrobials, plant growth enhancers and plant nutrition management, as well as nanodiagnostic tools in phytopathology and magnetic and supramagnetic nanostructure applications for plant protection. This second volume includes exciting new content on the roles of biologically synthesized nanoparticles in seed germination and zinc-based nanostructures in protecting against toxigenic fungi. Also included is new research in phytotoxicity, nano-scale fertilizers and nanomaterial applications in nematology and discussions on Botryis grey mold and nanobiocontrol. This book also explores the potential effects on the environment, ecosystems and consumers and addresses the implications of intellectual property for nanobiopesticides. Further discussed are nanotoxicity effects on the plant ecosystem and nano-applications for the detection, degradation and removal of pesticides.

*PC-BASED INSTRUMENTATION* N. MATHIVANAN 2007-01-21 This well-organized book is intended for the undergraduate students of Electrical, Electronics and Communications, Computer, Instrumentation and Instrumentation and Control Engineering; and postgraduate students of science in Electronics, Physics and Instrumentation. Data acquisition being the core of all PC-based measurements and control instrumentation systems engineering, this book presents detailed discussions on PC bus based data acquisition, remote data acquisition, GPIB data acquisition and networked data acquisition configurations. This book also describes sensors, signal-conditioning and principles of PC-based data acquisition. It provides several latest and advanced techniques. This book stresses the need for understanding the use of Personal Computers in measurement and control instrumentation applications. KEY FEATURES : • Provides several laboratory experiments to help the readers to gain hands-on experience in PC-based measurement and control. • Provides a number of review questions/problems (with solutions to the odd numbered problems) and objective type questions with solutions. • Presents a number of working circuits, design and programming examples. • Presents comparison of properties, features and characteristics of different bus systems, interface standards, and network protocols. • Includes the advanced techniques

such as sigma–delta converter, RS-485, I2C bus, SPI bus, FireWire, IEEE-488.2, SCPI and Fieldbus standards.

*IBM PC and Clones Hardware Troubleshooting and Maintenance* B. Govindarajulu 2002 This book is a thorough and authoritative reference covering the architecture, hardware organisation, circuit design and maintenance of the IBM PC series and its clones. The design concepts and techniques discussed facilitate application of chip-level an.

**Advanced Intelligent Systems for Sustainable Development (AI2SD'2019)** Mostafa Ezziyyani 2020-01-03 This book contains the latest researches on advanced intelligent systems applied in the field of education presented during the second edition of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2019) held on July 08–11, 2019, in Marrakech, Morocco. The book proposes new approaches and innovative strategies for the manipulation of data and big data collected from the educational environment, exploiting the analysis tools, algorithms of artificial intelligence, and machine learning techniques, in order to extract results, which allow improving the performance and effectiveness of the education field, which is a strategic lever for sustainable development. The book deals with concepts, strategies, and approaches developed on various current axes of scientific research in the field of education, such as smart e-learning, smart education (smart classroom, smart assessment and smart teaching and learning technologies), massive open online courses (MOOC), courseware design, and development for smart learning, cloud learning, and mobile learning. The book is intended for all actors in the educational sector, namely students, professors, academic researchers, and stakeholders. It constitutes a large-scale forum for the exchange of ideas, approaches, and innovative techniques between these actors on the development and innovation of the field of education with the revolution 4.0. The authors of each chapter report the state of the art of the various topics addressed and present results of their own research, laboratory experiments, and successful applications. The purpose of this session is to share the idea of advanced intelligent systems with appropriate tools and techniques for modeling, management, and decision support in the field of education.

**Indian National Bibliography** B. S. Kesavan 1997

## Indian Books in Print 2003

**Positive Plant Interactions and Community Dynamics** Francisco Pugnaire 2010-02-09 Ever since the concept of the "struggle for life" became the heart of Darwin's theory of evolution, biologists have studied the relevance of interactions for the natural history and evolution of organisms. Although positive interactions among plants have traditionally received little attention, there is now a growing body of evidence showing the ef

*Wheat Rust Diseases* Sambasivam Periyannan 2017-08-31 This volume presents a collection of tools currently used for the characterization of rust, the host plant wheat, and their interactions. This book is divided into five parts: Parts I and II discuss advanced techniques for characterizing rust pathogens in rust surveillance, genotyping, and molecular pathogenicity; Part III describes protocols for genetic analysis of rust resistance; Part IV covers methods on rust resistance gene cloning; and Part V talks about the isolation and screening of bacterial endophytes as biocontrol agents for rust disease management. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and authoritative, *Wheat Rust Disease: Methods and Protocols* is a valuable resource for both established and novel wheat rust researchers and also the plant science and microbial research community.

**The Grid** Maozhen Li 2005-11-01 Find out which technologies enable the Grid and how to employ them successfully! This invaluable text provides a complete, clear, systematic, and practical understanding of the technologies that enable the Grid. The authors outline all the components necessary to create a Grid infrastructure that enables support for a range of wide-area distributed applications. *The Grid: Core Technologies* takes a pragmatic approach with numerous practical examples of software in context. It describes the middleware components of the Grid step-by-step, and gives hands-on advice on designing and building a Grid environment with the Globus Toolkit, as well as writing applications. *The Grid: Core Technologies: Provides a solid and up-to-date introduction to the technologies that underpin the Grid. Contains a systematic explanation of the Grid, including its infrastructure, basic services, job management,*

user interaction, and applications. Explains in detail OGSA (Open Grid Services Architecture), Web Services technologies (SOAP, WSDL, UDDI), and Grid Monitoring. Covers Web portal-based tools such as the Java CoG, GridPort, GridSphere, and JSR 168 Portlets. Tackles hot topics such as WSRF (Web Services Resource Framework), the Semantic Grid, the Grid Security Infrastructure, and Workflow systems. Offers practical examples to enhance the understanding and use of Grid components and the associated tools. This rich resource will be essential reading for researchers and postgraduate students in computing and engineering departments, IT professionals in distributed computing, as well as Grid end users such as physicists, statisticians, biologists and chemists.

Encyclopedia of Parallel Computing David Padua 2011-09-08 Containing over 300 entries in an A-Z format, the Encyclopedia of Parallel Computing provides easy, intuitive access to relevant information for professionals and researchers seeking access to any aspect within the broad field of parallel computing. Topics for this comprehensive reference were selected, written, and peer-reviewed by an international pool of distinguished researchers in the field. The Encyclopedia is broad in scope, covering machine organization, programming languages, algorithms, and applications. Within each area, concepts, designs, and specific implementations are presented. The highly-structured essays in this work comprise synonyms, a definition and discussion of the topic, bibliographies, and links to related literature. Extensive cross-references to other entries within the Encyclopedia support efficient, user-friendly searches for immediate access to useful information. Key concepts presented in the Encyclopedia of Parallel Computing include; laws and metrics; specific numerical and non-numerical algorithms; asynchronous algorithms; libraries of subroutines; benchmark suites; applications; sequential consistency and cache coherency; machine classes such as clusters, shared-memory multiprocessors, special-purpose machines and dataflow machines; specific machines such as Cray supercomputers, IBM's cell processor and Intel's multicore machines; race detection and auto parallelization; parallel programming languages, synchronization primitives, collective operations, message passing libraries, checkpointing, and operating systems. Topics covered: Speedup, Efficiency, Isoefficiency, Redundancy, Amdahls law, Computer Architecture Concepts, Parallel Machine Designs, Benmarks, Parallel Programming concepts & design, Algorithms, Parallel applications. This authoritative reference will be published in two formats: print and online. The online edition features hyperlinks to cross-references and to additional significant research.

Related Subjects: supercomputing, high-performance computing, distributed computing