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## **KEY=SYSTEMS - DELACRUZ ALEXIS**

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**Distributed Systems Principles and Paradigms** *Createspace Independent Publishing Platform* **This second edition of Distributed Systems, Principles & Paradigms, covers the principles, advanced concepts, and technologies of distributed systems in detail, including: communication, replication, fault tolerance, and security. Intended for use in a senior/graduate level distributed systems course or by professionals, this text systematically shows how distributed systems are designed and implemented in real systems. Security Solutions for Hyperconnectivity and the Internet of Things** *IGI Global* **The Internet of Things describes a world in which smart technologies enable objects with a network to communicate with each other and interface with humans effortlessly. This connected world of convenience and technology does not come without its drawbacks, as interconnectivity implies hackability. Security Solutions for Hyperconnectivity and the Internet of Things offers insights from cutting-edge research about the strategies and techniques that can be implemented to protect against cyber-attacks. Calling for revolutionary protection strategies to reassess security, this book is an essential resource for programmers, engineers, business professionals, researchers, and advanced students in relevant fields. Distributed Systems Principles and Paradigms Based on the formula of Tanenbaum's 'Distributed Operating Systems', this text covers seven key principles of distributed systems: communications, processes, naming, synchronization, consistency and replication, fault tolerance and security. Cloud Computing Solutions Architecture, Data Storage, Implementation, and Security** *John Wiley & Sons* **CLOUD COMPUTING SOLUTIONS** **The main purpose of this book is to include all the cloud-related technologies in a single platform, so that researchers, academicians, postgraduate students, and those in the industry can easily understand the cloud-based**

ecosystems. This book discusses the evolution of cloud computing through grid computing and cluster computing. It will help researchers and practitioners to understand grid and distributed computing cloud infrastructure, virtual machines, virtualization, live migration, scheduling techniques, auditing concept, security and privacy, business models, and case studies through the state-of-the-art cloud computing countermeasures. This book covers the spectrum of cloud computing-related technologies and the wide-ranging contents will differentiate this book from others. The topics treated in the book include: The evolution of cloud computing from grid computing, cluster computing, and distributed systems; Covers cloud computing and virtualization environments; Discusses live migration, database, auditing, and applications as part of the materials related to cloud computing; Provides concepts of cloud storage, cloud strategy planning, and management, cloud security, and privacy issues; Explains complex concepts clearly and covers information for advanced users and beginners. Audience The primary audience for the book includes IT, computer science specialists, researchers, graduate students, designers, experts, and engineers who are occupied with research. Modern Operating Systems For Introductory Courses in Operating Systems in Computer Science, Computer Engineering, and Electrical Engineering programs. The widely anticipated revision of this worldwide best-seller incorporates the latest developments in operating systems (OS) technologies. The Third Edition includes up-to-date materials on relevant OS such as Linux, Windows, and embedded real-time and multimedia systems. Tanenbaum also provides information on current research based on his experience as an operating systems researcher. Emerging Solutions for Future Manufacturing Systems IFIP TC 5 / WG 5.5. Sixth IFIP International Conference on Information Technology for Balanced Automation Systems in Manufacturing and Services, 27-29 September 2004, Vienna, Austria *Springer* Industries and particularly the manufacturing sector have been facing difficult challenges in a context of socio-economic turbulence characterized by complexity as well as the speed of change in causal interconnections in the socio-economic environment. In order to respond to these challenges companies are forced to seek new technological and organizational solutions. In this context two main characteristics emerge as key properties of a modern automation system - agility and distribution. Agility because systems need not only to be flexible in order to adjust to a number of a-priori defined scenarios, but rather must cope with unpredictability. Distribution in the sense that automation and business processes are becoming distributed and supported by collaborative networks. Emerging Solutions for Future Manufacturing Systems includes the papers selected for the BASYS'04 conference, which was held in Vienna, Austria in September 2004 and sponsored by the International Federation for Information Processing (IFIP). Distributed Systems *Createspace Independent Publishing Platform* For this third edition of -Distributed Systems, - the material has been thoroughly revised and extended,

integrating principles and paradigms into nine chapters: 1. Introduction 2. Architectures 3. Processes 4. Communication 5. Naming 6. Coordination 7. Replication 8. Fault tolerance 9. Security A separation has been made between basic material and more specific subjects. The latter have been organized into boxed sections, which may be skipped on first reading. To assist in understanding the more algorithmic parts, example programs in Python have been included. The examples in the book leave out many details for readability, but the complete code is available through the book's Website, hosted at [www.distributed-systems.net](http://www.distributed-systems.net). A personalized digital copy of the book is available for free, as well as a printed version through Amazon.com.

**Formal Methods for Eternal Networked Software Systems** 11th International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2011, Bertinoro, Italy, June 13-18, 2011, *Advanced Lectures Springer Science & Business Media* This book presents 15 tutorial lectures by leading researchers given at the 11th edition of the International School on Formal Methods for the Design of Computer, Communication and Software Systems, SFM 2011, held in Bertinoro, Italy, in June 2011. SFM 2011 was devoted to formal methods for eternal networked software systems and covered several topics including formal foundations for the inter-operability of software systems, application-layer and middleware-layer dynamic connector synthesis, interaction behavior monitoring and learning, and quality assurance of connected systems. The school was held in collaboration with the researchers of the EU-funded projects CONNECT and ETERNALS. The papers are organized into six parts: (i) architecture and interoperability, (ii) formal foundations for connectors, (iii) connector synthesis, (iv) learning and monitoring, (v) dependability assurance, and (vi) trustworthy eternal systems via evolving software.

**Operating Systems: Principles And Design** PHI Learning Pvt. Ltd. **Knowledge and Systems Engineering Proceedings of the Fifth International Conference KSE 2013, Volume 1** Springer Science & Business Media The field of Knowledge and Systems Engineering (KSE) has experienced rapid development and inspired many applications in the world of information technology during the last decade. The KSE conference aims at providing an open international forum for presentation, discussion and exchange of the latest advances and challenges in research of the field. These proceedings contain papers presented at the Fifth International Conference on Knowledge and Systems Engineering (KSE 2013), which was held in Hanoi, Vietnam, during 17-19 October, 2013. Besides the main track of contributed papers, which are compiled into the first volume, the conference also featured several special sessions focusing on specific topics of interest as well as included one workshop, of which the papers form the second volume of these proceedings. The book gathers a total of 68 papers describing recent advances and development on various topics including knowledge discovery and data mining, natural language processing, expert systems, intelligent decision making, computational biology, computational modeling, optimization algorithms, and industrial applications.

**Multimedia and Network Information Systems Proceedings of the 10th International Conference MISSI 2016** *Springer* Recent years have seen remarkable progress on both advanced multimedia data processing and intelligent network information systems. The objective of this book is to contribute to the development of multimedia processing and the intelligent information systems and to provide the researches with the essentials of current knowledge, experience and know-how. Although many aspects of such systems have already been under investigation, but there are many new that wait to be discovered and defined. The book contains a selection of 36 papers based on original research presented during the 10th International Conference on Multimedia & Network Information Systems (MISSI 2016) held on 14-16 September 2016 in Wrocław, Poland. The papers provide an overview the achievements of researches from several countries in three continents. The volume is divided into five parts: (a) Images and Videos - Virtual and Augmented Reality, (b) Voice Interactions in Multimedia Systems, (c) Tools and Applications, (d) Natural Language in Information Systems, and (e) Internet and Network Technologies. The book is an excellent resource for researchers, those working in multimedia, Internet, and Natural Language technologies, as well as for students interested in computer science and other related fields.

**Middleware 2011 ACM/IFIP/USENIX 12th International Middleware Conference, Lisbon, Portugal, December 12-16, 2011, Proceedings** *Springer* This book constitutes the refereed proceedings of the ACM/IFIP/USENIX 12th International Middleware Conference, held in Lisbon, Portugal, in December 2011. The 22 revised full papers presented together with 2 industry papers and an invited paper were carefully reviewed and selected from 125 submissions. The papers are organized in topical sections on social networks, storage and performance management, green computing and resource management, notification and streaming, replication and caching, security and interoperability, and run-time (re)configuration and inspection.

**Service-Oriented Modeling Service Analysis, Design, and Architecture** *John Wiley & Sons* This book will provide answers to the most common questions that face enterprise leaders concerning service oriented architecture development lifecycle initiatives. It is a guide for service-oriented projects. The tentative chapters are: (1) Introduction to Service Modeling; (2) Service Polymorphism; (3) Service Typing and Service Structure Model; (4) Service Development Lifecycle Model; (5) Service Conceptualization; (6) Service Discovery and Analysis; (7) Business Service Architecture; (8) Service Design and Realization; (9) Service Architecture Conceptualization; (10) Service Architecture Modeling.

**Cyber Security and Threats: Concepts, Methodologies, Tools, and Applications** *IGI Global* Cyber security has become a topic of concern over the past decade as private industry, public administration, commerce, and communication have gained a greater online presence. As many individual and organizational activities continue to evolve in the digital sphere, new vulnerabilities arise. **Cyber Security and Threats: Concepts,**

**Methodologies, Tools, and Applications** contains a compendium of the latest academic material on new methodologies and applications in the areas of digital security and threats. Including innovative studies on cloud security, online threat protection, and cryptography, this multi-volume book is an ideal source for IT specialists, administrators, researchers, and students interested in uncovering new ways to thwart cyber breaches and protect sensitive digital information. **Handbook of Research on Mobility and Computing: Evolving Technologies and Ubiquitous Impacts** *IGI Global* Discusses the main issues, challenges, opportunities, and trends related to this explosive range of new developments and applications, in constant evolution, and impacting every organization and society as a whole. This two volume handbook supports post-graduate students, teachers, and researchers, as well as IT professionals and managers. **Operating Systems (Self Edition 1.1.Abridged)** (See other editions at [https://books.google.com/books/?id=zSbxCwAAQBAJ](https://books.google.com/books?id=zSbxCwAAQBAJ) and decide one) *Sibsankar Haldar* Some previous editions of this book were published from Pearson Education (ISBN 9788131730225). This book, designed for those who are taking introductory courses on operating systems, presents both theoretical and practical aspects of modern operating systems. Although the emphasis is on theory, while exposing you (the reader) the subject matter, this book maintains a balance between theory and practice. The theories and technologies that have fueled the evolution of operating systems are primarily geared towards two goals: user convenience in maneuvering computers and efficient utilization of hardware resources. This book also discusses many fundamental concepts that have been formulated over the past several decades and that continue to be used in many modern operating systems. In addition, this book also discusses those technologies that prevail in many modern operating systems such as UNIX, Solaris, Linux, and Windows. While the former two have been used to present many in-text examples, the latter two are dealt with as separate technological case studies. They highlight the various issues in the design and development of operating systems and help you correlate theories to technologies. This book also discusses Android exposing you a modern software platform for embedded devices. This book supersedes ISBN 9788131730225 and its other derivatives, from Pearson Education India. (They have been used as textbooks in many schools worldwide.) You will definitely love this self edition, and you can use this as a textbook in undergraduate-level operating systems courses. **Intelligent Systems for Automated Learning and Adaptation: Emerging Trends and Applications** *IGI Global* "This volume offers intriguing applications, reviews and additions to the methodology of intelligent computing, presenting the emerging trends of state-of-the-art intelligent systems and their practical applications"--Provided by publisher. **Cases on ICT Utilization, Practice and Solutions: Tools for Managing Day-to-Day Issues** *IGI Global* "This book presents in-depth insight through a case study approach into the current state of research in ICT

as well as identified successful approaches, tools and methodologies in ICT research"--Provided by publisher. **Security in Computing Systems Challenges, Approaches and Solutions** *Springer Science & Business Media* This monograph on **Security in Computing Systems: Challenges, Approaches and Solutions** aims at introducing, surveying and assessing the fundamentals of security with respect to computing. Here, "computing" refers to all activities which individuals or groups directly or indirectly perform by means of computing systems, i. e. , by means of computers and networks of them built on telecommunication. We all are such individuals, whether enthusiastic or just bowed to the inevitable. So, as part of the "information society", we are challenged to maintain our values, to pursue our goals and to enforce our interests, by consciously designing a "global information infrastructure" on a large scale as well as by appropriately configuring our personal computers on a small scale. As a result, we hope to achieve secure computing: Roughly speaking, computer-assisted activities of individuals and computer-mediated cooperation between individuals should happen as required by each party involved, and nothing else which might be harmful to any party should occur. The notion of security circumscribes many aspects, ranging from human qualities to technical enforcement. First of all, in considering the explicit security requirements of users, administrators and other persons concerned, we hope that usually all persons will follow the stated rules, but we also have to face the possibility that some persons might deviate from the wanted behavior, whether accidentally or maliciously.

**Graph-Theoretic Concepts in Computer Science International Workshop WG '87, Kloster Banz/Staffelstein, FRG, June 29 - July 1, 1987. Proceedings** *Springer Science & Business Media* This book reflects the scientific program of the annual workshop on Graph-theoretic Concepts in Computer Science in 1987. The purpose of this conference is to be the "missing link" between theory and application of graphs in as many branches of computer science as a conference scheduled for three days without parallel sessions can permit. So the organizers of WG '87 addressed a selected group of people with a strong interest in theory and practice. The proceedings include latest results on "classical" graph-theoretic problems (including formal language theory applied to graphs) and how to apply those results to practical problems, e.g. data bases, layout of graph operating systems, software engineering, chemistry, and modelling with graphs.

**Computer Networks** *Pearson College Division* **Computer Networks** is the ideal introduction to today's and tomorrow's networks. This classic best-seller has been totally rewritten to reflect the networks of the late 1990s and beyond. Author, educator, and researcher Andrew S. Tanenbaum, winner of the ACM Karl V. Karlstrom Outstanding Educator Award, carefully explains how networks work inside, from the hardware technology up through the most popular network applications. The book takes a structured approach to networking, starting at the bottom (the physical layer) and gradually working up to the top (the application layer). The topics covered include: \*Physical layer (e.g., copper, fiber, radio, and satellite

communication) \*Data link layer (e.g., protocol principles, HDLC, SLIP, and PPP) \*MAC Sublayer (e.g., IEEE 802 LANs, bridges, new high-speed LANs) \*Network layer (e.g., routing, congestion control, internetworking, IPv6) \*Transport layer (e.g., transport protocol principles, TCP, network performance) \*Application layer (e.g., cryptography, email, news, the Web, Java, multimedia) In each chapter, the necessary principles are described in detail, followed by extensive examples taken from the Internet, ATM networks, and wireless

**Middleware'98 IFIP International Conference on Distributed Systems Platforms and Open Distributed Processing** *Springer Science & Business Media* **Welcome to Middleware'98** and to one of England's most beautiful regions. In recent years the distributed systems community has witnessed a growth in the number of conferences, leading to difficulties in tracking the literature and a consequent loss of awareness of work done by others in this important field. The aim of Middleware'98 is to synthesise many of the smaller workshops and conferences in this area, bringing together research communities which were becoming fragmented. The conference has been designed to maximise the experience for attendees. This is reflected in the choice of a resort venue (rather than a big city) to ensure a strong focus on interaction with other distributed systems researchers. The programme format incorporates a question-and-answer panel in each session, enabling significant issues to be discussed in the context of related papers and presentations. The invited speakers and tutorials are intended to not only inform the attendees, but also to stimulate discussion and debate.

**Distributed Operating Systems** *Pearson Education India* **As distributed computer systems become more pervasive, so does the need for understanding how their operating systems are designed and implemented. Andrew S. Tanenbaum's Distributed Operating Systems fulfills this need. Representing a revised and greatly expanded Part II of the best-selling Modern Operating Systems, it covers the material from the original book, including communication, synchronization, processes, and file systems, and adds new material on distributed shared memory, real-time distributed systems, fault-tolerant distributed systems, and ATM networks. It also contains four detailed case studies: Amoeba, Mach, Chorus, and OSF/DCE. Tanenbaum's trademark writing provides readers with a thorough, concise treatment of distributed systems. Information Assurance and Computer Security** *IOS Press* "Today's society can no longer function without information technology. Essential infrastructure including the transportation system, banking, the entertainment industry, the health care system, government, the military and the education system can no longer survive without modern technology. This increasing dependence on information technology creates new opportunities for the benefit of society. However, it also opens an avenue that can be exploited for illicit purposes. The stakes are high and many attacks go undetected or unreported. In addition to losses such as data or other forms of intellectual property, financial theft or the shut down of infrastructure, computer security attacks that target critical infrastructure such as nuclear power plants has the

potential to cause human casualties on a massive and unprecedented scale. This book provides a discussion on a wide variety of viewpoints on some of the main challenges facing secure systems. This book will therefore be of major interest to all researchers in academia or industry with an interest in computer security. It is also relevant to graduate and advanced level undergraduate students who may want to explore the latest developments in the area of computer and information security." *Large-Scale Distributed Computing and Applications: Models and Trends* Models and Trends IGI Global Many applications follow the distributed computing paradigm, in which parts of the application are executed on different network-interconnected computers. The extension of these applications in terms of number of users or size has led to an unprecedented increase in the scale of the infrastructure that supports them. *Large-Scale Distributed Computing and Applications: Models and Trends* offers a coherent and realistic image of today's research results in large scale distributed systems, explains state-of-the-art technological solutions for the main issues regarding large scale distributed systems, and presents the benefits of using large scale distributed systems and the development process of scientific and commercial distributed applications. *Software Architecture A Comprehensive Framework and Guide for Practitioners* Springer Science & Business Media As a software architect you work in a wide-ranging and dynamic environment. You have to understand the needs of your customer, design architectures that satisfy both functional and non-functional requirements, and lead development teams in implementing the architecture. And it is an environment that is constantly changing: trends such as cloud computing, service orientation, and model-driven procedures open up new architectural possibilities. This book will help you to develop a holistic architectural awareness and knowledge base that extends beyond concrete methods, techniques, and technologies. It will also help you to acquire or expand the technical, methodological, and social competences that you need. The authors place the spotlight on you, the architect, and offer you long-term architectural orientation. They give you numerous guidelines, checklists, and best practices to support you in your practical work. "Software Architecture" offers IT students, software developers, and software architects a holistic and consistent orientation across relevant topics. The book also provides valuable information and suggestions for system architects and enterprise architects, since many of the topics presented are also relevant for their work. Furthermore, IT project leads and other IT managers can use the book to acquire an enhanced understanding of architecture. Further information is available at [www.software-architecture-book.org](http://www.software-architecture-book.org). *Mobile and Handheld Computing Solutions for Organizations and End-Users* IGI Global *Mobile and Handheld Computing Solutions for Organizations and End-Users* discusses a broad range of topics in order to advance handheld knowledge and apply the proposed methods to real-world issues for organizations and end users. This book brings together researchers and practitioners involved with mobile and handheld computing solutions

useful for IT students, researchers, and scholars. **Distributed Systems Principles and Paradigms** *Prentice Hall* No further information has been provided for this title. **Readings in Groupware and Computer-supported Cooperative Work Assisting Human-human Collaboration** *Morgan Kaufmann* This comprehensive introduction to the field represents the best of the published literature on groupware and computer-supported cooperative work (CSCW). The papers were chosen for their breadth of coverage of the field, their clarity of expression and presentation, their excellence in terms of technical innovation or behavioral insight, their historical significance, and their utility as sources for further reading. Taken as a whole, the papers and their introductions are a complete sourcebook to the field. This book will be useful for computer professionals involved in the development or purchase of groupware technology as well as for researchers and managers. It should also serve as a valuable text for university courses on CSCW, groupware, and human-computer interaction. **Parallel Computing on Distributed Memory Multiprocessors** *Springer Science & Business Media* Advances in microelectronic technology have made massively parallel computing a reality and triggered an outburst of research activity in parallel processing architectures and algorithms. Distributed memory multiprocessors - parallel computers that consist of microprocessors connected in a regular topology - are increasingly being used to solve large problems in many application areas. In order to use these computers for a specific application, existing algorithms need to be restructured for the architecture and new algorithms developed. The performance of a computation on a distributed memory multiprocessor is affected by the node and communication architecture, the interconnection network topology, the I/O subsystem, and the parallel algorithm and communication protocols. Each of these parameters is a complex problem, and solutions require an understanding of the interactions among them. This book is based on the papers presented at the NATO Advanced Study Institute held at Bilkent University, Turkey, in July 1991. The book is organized in five parts: Parallel computing structures and communication, Parallel numerical algorithms, Parallel programming, Fault tolerance, and Applications and algorithms. **17th International Conference on Information Technology-New Generations (ITNG 2020)** *Springer Nature* This volume presents the 17th International Conference on Information Technology—New Generations (ITNG), and chronicles an annual event on state of the art technologies for digital information and communications. The application of advanced information technology to such domains as astronomy, biology, education, geosciences, security, and healthcare are among the themes explored by the ITNG proceedings. Visionary ideas, theoretical and experimental results, as well as prototypes, designs, and tools that help information flow to end users are of special interest. Specific topics include Machine Learning, Robotics, High Performance Computing, and Innovative Methods of Computing. The conference features keynote speakers; a best student contribution award, poster award, and service award; a technical open panel, and workshops/exhibits from

industry, government, and academia. **Web Caching and Its Applications** *Springer Science & Business Media* The last decade has seen a tremendous growth in the usage of the World Wide Web. The Web has grown so fast that it seems to be becoming an unusable and slow behemoth. Web caching is one way to tame and make this behemoth a friendly and useful giant. The key idea in Web caching is to cache frequently accessed content so that it may be used profitably later. This book focuses entirely on Web caching techniques. Much of the material in this book is very relevant for those interested in understanding the wide gamut of Web caching research. It will be helpful for those interested in making use of the power of the Web in a more profitable way. Audience and purpose of this book This book presents key concepts in Web caching and is meant to be suited for a wide variety of readers including advanced undergraduate and graduate students, programmers, network administrators, researchers, teachers, technologists and Internet Service Providers (ISPs).

**Biomedical Diagnostics and Clinical Technologies: Applying High-Performance Cluster and Grid Computing** *IGI Global* Biomedical Diagnostics and Clinical Technologies: Applying High-Performance Cluster and Grid Computing disseminates knowledge regarding high performance computing for medical applications and bioinformatics. This critical reference source contains a valuable collection of cutting-edge research chapters for those working in the broad field of medical informatics and bioinformatics.

**Towards Network Globalization - Proceedings Of The 1991 Singapore International Conference Of Networks (Sicon '91)** *World Scientific* With globalization in every area of human activity being a key trend of the 1990s, better and faster networks will have an increasingly important role and impact in making the 'global village' a reality. The papers collected in this volume highlight the global nature of the activities and the tremendous pace of R&D in the field of communications and networking.

**System Analysis and Modeling. Languages, Methods, and Tools for Systems Engineering 10th International Conference, SAM 2018, Copenhagen, Denmark, October 15-16, 2018, Proceedings** *Springer* This book constitutes the refereed proceedings of the 10th International Conference on System Analysis and Modeling, SAM 2018, held in Copenhagen Denmark, in October 2018. The 12 full papers and 2 short papers presented were carefully reviewed and selected from 24 submissions. The papers describe innovations, trends, and experiences in modeling and analysis of complex systems using ITU-T's Specification and Description Language (SDL-2010) and Message Sequence Chart (MSC) notations, as well as related system design languages — including UML, ASN.1, TTCN, SysML and the User Requirements Notation (URN). This year's edition of SAM will be under the theme "Languages, Methods, and Tools for Systems Engineering", including languages and methods standardized by the ITU-T, and domain-specific languages. Also included are software engineering technologies, such as for requirements engineering, software verification and validation, and automated code generation. Iterative Software Engineering for

**Multiagent Systems The MASSIVE Method** *Springer* The agent metaphor and the agent-based approach to systems design constitute a promising new paradigm for building complex distributed systems. However, until now, the majority of the agent-based applications available have been built by researchers who specialize in agent-based computing and distributed artificial intelligence. If agent-based computing is to become anything more than a niche technology practiced by the few, then the base of people who can successfully apply the approach needs to be broadened dramatically. A major step in this broadening endeavor is the development of methodologies for agent-oriented software engineering accessible to and attractive for professional software engineers in their daily work. Against this background, this book presents one of the first coherent attempts to develop such a methodology for a broad class of agent-based systems. The author provides a clear introduction to the key issues in the field of agent-oriented software engineering.

**Half a Century of Inspirational Research Honoring the Scientific Influence of Antoni Mazurkiewicz** *IOS Press* Honors Professor Antoni Mazurkiewicz, who during his long scientific career made fundamental contributions to theoretical computer science. This book includes contributions, which span a range of research areas, including the theory of programming, models of concurrent and distributed systems, and (de)composition methods for Petri nets.

**Blockchain Ecosystem. Driving mass adoption** *goWare & Guerini Next* Beyond Bitcoin and the world of cryptocurrencies, blockchain is an extraordinary technology that is revealing a surprising transformative power impacting all the industries. Blockchain requires a paradigm shift toward disintermediation and antifragility, which is today even more necessary for business and society. In this book, the reader will find a representation of the entire blockchain ecosystem from a pragmatic point of view that encompasses actual cases of organizations, companies, and communities that are already working hard to realize it. To understand an ecosystem so mutable and fragmented and not get lost in its complexity, it is essential to focus on the most crucial factor: the impact that these technologies can have on our lives in all the world. A new financial platform, a new way of distributing goods, a new approach to social media, a new market for fine art, a new kinds of governance (yes, also political) are some of the domains impacted by the blockchain that the book analyzes. This revolution is not happening only in Silicon Valley but in multiple hubs around the world, including New York, Zug, Shanghai, London, Hong Kong, Dubai, Singapore, Tallin, and more. Moreover, the Author covers the impact of blockchain on the world of work both for traditional companies that seek to incorporate the new technology in their business model and for native blockchain organizations and communities, which are driving the technology towards mass adoption.

**Applications of Intelligent Control to Engineering Systems In Honour of Dr. G. J. Vachtsevanos** *Springer Science & Business Media* This book reflects the work of top scientists in the field of intelligent control and its applications, prognostics, diagnostics, condition based maintenance and unmanned

systems. It includes results, and presents how theory is applied to solve real problems. **Developments in Applied Artificial Intelligence 15th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2002, Cairns, Australia, June 17-20, 2002. Proceedings** *Springer Artificial Intelligence* is a field with a long history, which is still very much active and developing today. **Developments of new and improved techniques, together with the ever-increasing levels of available computing resources, are fueling an increasing spread of AI applications. These applications, as well as providing the economic rationale for the research, also provide the impetus to further improve the performance of our techniques. This further improvement today is most likely to come from an understanding of the ways our systems work, and therefore of their limitations, rather than from ideas 'borrowed' from biology. From this understanding comes improvement; from improvement comes further application; from further application comes the opportunity to further understand the limitations, and so the cycle repeats itself indefinitely. In this volume are papers on a wide range of topics; some describe applications that are only possible as a result of recent developments, others describe new developments only just being moved into practical application. All the papers reflect the way this field continues to drive forward. This conference is the 15th in an unbroken series of annual conferences on Industrial and Engineering Application of Artificial Intelligence and Expert Systems organized under the auspices of the International Society of Applied Intelligence.**