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KEY=AGENT - JANIYAH JAMIE

Developing Intelligent Agent Systems A Practical Guide John Wiley & Sons Build your own intelligent agent system... Intelligent agent technology is a tool of modern computer science that can be used to engineer complex computer programmes that behave rationally in dynamic and changing environments. Applications range from small programmes that intelligently search the Web buying and selling goods via electronic commerce, to autonomous space probes. This powerful technology is not widely used, however, as developing intelligent agent software requires high levels of training and skill. The authors of this book have developed and tested a methodology and tools for developing intelligent agent systems. With this methodology (Prometheus) developers can start agent-oriented designs and implementations easily from scratch saving valuable time and resources. Developing Intelligent Agent Systems not only answers the questions "what are agents?" and "why are they useful?" but also the crucial question: "how do I design and build intelligent agent systems?" The book covers everything a practitioner needs to know to begin to effectively use this technology - including an introduction to the notion of agents, a description of the concepts involved, and a software engineering methodology. Read on for: a practical step-by-step introduction to designing and building intelligent agent systems. a full life-cycle methodology for developing intelligent agent systems covering specification, analysis, design and implementation of agents. PDT: Prometheus Design Tool - software support for the Prometheus design process. the example of an electronic bookstore to illustrate the design process throughout the book. Electronic resources including the Prometheus Design Tool (PDT), can be found at: <http://www.cs.rmit.edu.au/agents/prometheus> This book is aimed at industrial software developers, software engineers and at advanced undergraduate students. It assumes knowledge of basic software engineering but does not require knowledge of Artificial Intelligence or of mathematics. Familiarity with Java will help in reading the examples in chapter 10. **Advances in Practical Applications of Agents, Multi-Agent Systems, and Complexity: The PAAMS Collection 16th International Conference, PAAMS 2018, Toledo, Spain, June 20-22, 2018, Proceedings** Springer This book constitutes the proceedings of the 16th International Conference on Practical Applications of Agents and Multi-Agent Systems, PAAMS 2018, held in Toledo, Spain, in June 2018. The 20 regular and 19 demo papers presented in this volume were carefully reviewed and selected from 57 submissions. They deal with the application and validation of agent-based models, methods, and technologies in a number of key applications areas, such as: energy and security; engineering and tools; evaluation and ethics; negotiation and organisations; personalization and learning; simulation applications; simulation platforms; social networks and humans. The book also contains two invited talks in full paper length. **Artificial Intelligence A Modern Approach** Pearson Higher Education "Updated edition of popular textbook on Artificial Intelligence. This edition specific looks at ways of keeping artificial intelligence under control"-- **Coordination, Organizations, Institutions and Norms in Agent Systems IV COIN 2008 International Workshops COIN@AAMAS 2008, Estoril, Portugal, May 12, 2008 COIN@AAAI 2008, Chicago, USA, July 14, 2008, Revised Selected Papers** Springer Science & Business Media Multi-agent systems (MAS) are often understood as complex entities where a multitude of agents interact, usually with some intended individual or collective goals. Such a view usually assumes some form of organization, or set of norms or conventions that articulate or restrain interactions in order to make them more effective, certain, or predictable for participants. Engineering effective coordination or regulatory mechanisms is a key problem for the design of open complex multi-agent systems. In recent years, social and organizational aspects of agency have become a major issue in MAS research especially in applications on service-oriented computing, grid computing and ambient intelligence. These applications enforce the need for using these aspects in order to ensure social order within these environments. Openness, heterogeneity, and scalability of MAS pose new demands on traditional MAS interaction models. Therefore, the view of coordination and control has to be expanded to consider not only an agent-centric perspective but also societal and organization-centric views. However, agent autonomy is often needed for concretely implementing social order, because autonomous agents can intelligently adapt the designed organization to particular cases and can face unpredictable events. From this perspective autonomy can also be a possible source of internal change in the designed or nizational constructs. Differently, autonomous behavior can also originate forms of self-organization which emerge out of local interactions and are only partially externally programmed. In such situations the self-organized order and the internally designed organization can even be in conflict. **Architectural Design of Multi-agent Systems Technologies and Techniques** IGI Global "This book is a compilation of advanced research results in architecture and modeling issues of multi-agent systems. It serves as a reference for research on system models, architectural design languages, methods and reasoning, module interface design, and design issues"-- Provided by publisher. **Intelligent Agent Systems Theoretical and Practical Issues. Based on a Workshop Held at PRICAI '96, Cairns, Australia, August 26-30, 1996** Springer Science & Business Media The agents approach is not just another abstract computing paradigm, but has matured during recent years into a booming research area and software engineering technology which holds great promise for the design and application of complex distributed systems. This book presents 12 revised full chapters grouped around 3 main topics in intelligent agent systems: agent architectures, formal theories of rationality and cooperation and collaboration. Among the topics addressed are software agents, BDI architectures, social commitment, believable agents and artificial life. The book is based on the Workshop on Theoretical and Practical Foundations of Intelligent Agents held at the Fourth Pacific Rim International Conference on Artificial Intelligence in Cairns, Australia, in August 1996. **Jeff Buckley's Grace** A&C Black The power and influence of Grace increases with each passing year. Here, Daphne Brooks traces Jeff Buckley's fascinating musical development through the earliest stages of his career, up to the release of the album. With access to rare archival material, Brooks illustrates Buckley's passion for life and hunger for musical knowledge, and shows just why he was such a crucial figure in the American music scene of the 1990s. EXCERPT: Jeff Buckley was piecing together a contemporary popular music history for himself that was steeped in the magic of singing. He was busy hearing how Dylan channeled Billie Holiday in *Blonde On Blonde* and how Robert Plant was doing his best to sound like Janis Joplin on early Led Zeppelin recordings. He was thinking about doo-wop and opera and Elton John and working at developing a way to harness the power of the voice... In the process, he was re-defining punk and grunge "attitude" itself by rejecting the ambivalent sexual undercurrents of those movements, as well as Led Zeppelin's canonical "cock rock" kingdom that he'd grown up adoring. He was forging a one-man revolution set to the rhythms of New York City and beyond. And he was on the brink of recording his elegant battle in song for the world to hear. **Green Home Computing For Dummies** John Wiley & Sons Make your computer a green machine and live greener at home and at work Get on board the green machine! Green home computing means making the right technology choice for the environment, whether it be a Windows-based or Mac-based computer and all the peripherals. In addition, it means learning how to properly and safely dispose of those items and how to use your computer to create a greener life at home and at work. Computer expert Woody Leonhard and green living guru Katherine Murray introduce you to the many green products that exist in the world of technology, including eco-friendly desktops, laptops, and servers; energy-efficient peripherals; and the numerous Web sites that offer advice on how to go green in nearly every aspect of your life. Bestselling author Woody Leonhard and green living guru Katherine Murray show you how to make your computer more eco-friendly Discusses buying a green computer and choosing eco-friendly peripherals Discover ways to manage your power with software and servers Provides helpful explanations that decipher how to understand your computer's power consumption With this invaluable insight, you'll discover that it actually is easy being green! **Inequalities for Differential and Integral Equations** Elsevier Inequalities for Differential and Integral Equations has long been needed; it contains material which is hard to find in other books. Written by a major contributor to the field, this comprehensive resource contains many inequalities which have only recently appeared in the literature and which can be used as powerful tools in the development of applications in the theory of new classes of differential and integral equations. For researchers working in this area, it will be a valuable source of reference and inspiration. It could also be used as the text for an advanced graduate course. Covers a variety of linear and nonlinear inequalities which find widespread applications in the theory of various classes of differential and integral equations Contains many inequalities which have only recently appeared in literature and cannot yet be found in other books Provides a valuable reference to engineers and graduate students **Computer Vision: A Modern Approach International Edition** Pearson Higher Ed Appropriate for upper-division undergraduate- and graduate-level courses in computer vision found in departments of Computer Science, Computer Engineering and Electrical Engineering. This textbook provides the most complete treatment of modern computer vision methods by two of the leading authorities in the field. This accessible presentation gives both a general view of the entire computer vision enterprise and also offers sufficient detail for students to be able to build useful applications. Students will learn techniques that have proven to be useful by first-hand experience and a wide range of mathematical methods. **Integral and Finite Difference Inequalities and Applications** Elsevier The monograph is written with a view to provide basic tools for researchers working in Mathematical Analysis and Applications, concentrating on differential, integral and finite difference equations. It contains many inequalities which have only recently appeared in the literature and which can be used as powerful tools and will be a valuable source for a long time to come. It is self-contained and thus should be useful for those who are interested in learning or applying the inequalities with explicit estimates in their studies. Contains a variety of inequalities discovered which find numerous applications in various branches of differential, integral and finite difference equations Valuable reference for someone requiring results about inequalities for use in some applications in various other branches of mathematics Highlights pure and applied mathematics and other areas of science and technology **Intelligent Help Systems for UNIX** Springer Science & Business Media In this international collection of papers there is a wealth of knowledge on artificial intelligence (AI) and cognitive science (CS) techniques applied to the problem of providing help systems mainly for the UNIX operating system. The research described here involves the representation of technical computer concepts, but also the representation of how users conceptualise such concepts. The collection looks at computational models and systems such as UC, Yucca, and OSCON programmed in languages such as Lisp, Prolog, OPS-5, and C which have been developed to provide UNIX help. These systems range from being menu-based to ones with natural language interfaces, some providing active help, intervening when they believe the user to have misconceptions, and some based on empirical studies of what users actually do while using UNIX. Further papers investigate planning and knowledge representation where the focus is on discovering what the user wants to do, and figuring out a way to do it, as well as representing the knowledge needed to do so. **Do the Right Thing Studies in Limited Rationality** MIT Press Like Mooki, the hero of Spike Lee's film "Do the Right Thing," artificially intelligent systems have a hard time knowing what to do in all circumstances. Classical theories of perfect rationality prescribe the "right thing" for any occasion, but no finite agent can compute their prescriptions fast enough. In Do the

Right Thing, the authors argue that a new theoretical foundation for artificial intelligence can be constructed in which rationality is a property of "programs" within a finite architecture, and their behavior over time in the task environment, rather than a property of individual decisions. Do the Right Thing suggests that the rich structure that seems to be exhibited by humans, and ought to be exhibited by AI systems, is a necessary result of the pressure for optimal behavior operating within a system of strictly limited resources. It provides an outline for the design of new intelligent systems and describes theoretical and practical tools for bringing about intelligent behavior in finite machines. The tools are applied to game planning and realtime problem solving, with surprising results. **Medicine Man** When we meet Obioma as a child in 1983, he is threading his way through the centre of rush hour Owerri, South East of Nigeria, with its cacophony of traffic, people, market traders and amplified music, in search of 5.00 Naira. This is the price of entry to the school's effort at winning a French song competition, instigated by the charismatic Mr Success. We immerse ourselves into his chaotic and exciting life. The mesmerizing smile of Nneka, Obioma's childhood sweetheart, adventures with Kalu, his best friend and possibly the cleverest person in the universe. Then the rural village, Umuwe, from which Obioma's family hails. There his uncle, Iwuagwu, a traditional healer, starts to initiate Obioma into the centuries old profession of traditional medicine. When the young school-mates, Obioma and Kalu, conceive a way to make 80 million Naira by growing and harvesting palm-nuts and making palm-oil, they painstakingly work and save towards this goal over the next few years. As a result, Kalu is drawn into his older half-brother, Benjamin's, use of his vulcanizing business as a front for swindling, through running errands and carrying messages for him to the teenage girls he routinely deflowers. Meanwhile, Nneka, having struggled to avoid being sucked into the nexus of providing sex for favours from older men by which her fellow-university students finance their studies, succumbs when her mother falls sick and needs what seems like a fabulous amount of money - 800,000 Naira - for an operation. Over the course of two decades more tectonic plates move, and on a pivotal day Obioma joins one of the swelling crowds of hundreds marauding through the city with toppled burning cars lit up in their wake. Obioma, spade in hand, has become a truth-seeker. Who knows where the bodies are buried? Even for a country whose pre and post-Independence history has been as turbulent as Nigeria's, the ten years covered by this novel - 1983-93 - will be remembered as a period of unprecedented social change. The novel is not, however, a record of the political upheavals that marked this period, so much as a dramatization of their effects and consequences on ordinary people in a particular place.

Learning Bayesian Networks Prentice Hall This book serves as a textbook or reference for anyone with an interest in probabilistic modeling in the fields of computer science, computer engineering, and electrical engineering. This text is also a resource for courses on expert systems, machine learning, and artificial intelligence. Beginning with a basic theoretical introduction, the author then provides a discussion of inference, methods of learning, and applications based on Bayesian networks and beyond. **MIMO Wireless Communications From Real-World Propagation to Space-Time Code Design** Academic Press Uniquely, this book proposes robust space-time code designs for real-world wireless channels. Through a unified framework, it emphasizes how propagation mechanisms such as space-time frequency correlations and coherent components impact the MIMO system performance under realistic power constraints. Combining a solid mathematical analysis with a physical and intuitive approach to space-time coding, the book progressively derives innovative designs, taking into consideration that MIMO channels are often far from ideal. The various chapters of this book provide an essential, complete and refreshing insight into the performance behaviour of space-time codes in realistic scenarios and constitute an ideal source of the latest developments in MIMO propagation and space-time coding for researchers, R&D engineers and graduate students. Features include • Physical models and analytical representations of MIMO propagation channels, highlighting the strengths and weaknesses of various models • Overview of space-time coding techniques, covering both classical and more recent schemes under information theory and error probability perspectives • In-depth presentation of how real-world propagation affects the capacity and the error performance of MIMO transmission schemes • Innovative and practical designs of robust space-time coding, precoding and antenna selection techniques for realistic propagation (including single-carrier and MIMO-OFDM transmissions) "This book offers important insights into how space-time coding can be tailored for real-world MIMO channels. The discussion of MIMO propagation models is also intuitive and well-developed." Arogyaswami J. Paulraj, Professor, Stanford University, CA "Finally a book devoted to MIMO from a new perspective that bridges the boundaries between propagation, channel modeling, signal processing and space-time coding. It is of high reference value, combining intuitive and conceptual explanations with detailed, stringent derivations of basic facts of MIMO." Ernst Bonek, Emeritus Professor, Technische Universität Wien, Austria * Presents space-time coding techniques for real-world MIMO channels * Contains new design methodologies and criteria that guarantee the robustness of space-time coding in real life wireless communications applications * Evaluates the performance of space-time coding in real world conditions **Speech & Language Processing** Pearson Education India **Probabilistic Reasoning in Intelligent Systems Networks of Plausible Inference** Elsevier Probabilistic Reasoning in Intelligent Systems is a complete and accessible account of the theoretical foundations and computational methods that underlie plausible reasoning under uncertainty. The author provides a coherent explication of probability as a language for reasoning with partial belief and offers a unifying perspective on other AI approaches to uncertainty, such as the Dempster-Shafer formalism, truth maintenance systems, and nonmonotonic logic. The author distinguishes syntactic and semantic approaches to uncertainty--and offers techniques, based on belief networks, that provide a mechanism for making semantics-based systems operational. Specifically, network-propagation techniques serve as a mechanism for combining the theoretical coherence of probability theory with modern demands of reasoning-systems technology: modular declarative inputs, conceptually meaningful inferences, and parallel distributed computation. Application areas include diagnosis, forecasting, image interpretation, multi-sensor fusion, decision support systems, plan recognition, planning, speech recognition--in short, almost every task requiring that conclusions be drawn from uncertain clues and incomplete information. Probabilistic Reasoning in Intelligent Systems will be of special interest to scholars and researchers in AI, decision theory, statistics, logic, philosophy, cognitive psychology, and the management sciences. Professionals in the areas of knowledge-based systems, operations research, engineering, and statistics will find theoretical and computational tools of immediate practical use. The book can also be used as an excellent text for graduate-level courses in AI, operations research, or applied probability. **Chemical Sensors An Introduction for Scientists and Engineers** Springer Science & Business Media Research in the area of chemical and biochemical sensors and the development of respective applications is still growing rapidly. This book aims at instructing researcher and practitioners in both disciplines in a strictly systematic, interdisciplinary and practice-oriented way about the basic technology of chemical and biochemical sensors. This concise volume bridges the gap between the different "ways of thinking" in chemistry, physics and engineering. It provides a firm grounding for engineers, industrial and academic researcher in the field, for practitioners and novices as well as for advanced students. **A Textbook of Engineering Physics** S. Chand Publishing A Txtbook 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.Successiv editions of the book incorporated topic as required by students pursuing their studies in various universities.In this new edition the contents are fine-tuned,modeinized and updated at various stages. **The Use of Knowledge in Analogy and Induction** Pitman Publishing **Trends in Practical Applications of Agents, Multi-Agent Systems and Sustainability The PAAMS Collection** Springer This volume presents the papers that have been accepted for the 2015 special sessions of the 13th International Conference on Practical Applications of Agents and Multi-Agent Systems, held at University of Salamanca, Spain, at 3rd-5th June, 2015: Agents Behaviours and Artificial Markets (ABAM); Agents and Mobile Devices (AM); Multi-Agent Systems and Ambient Intelligence (MASMAI); Web Mining and Recommender systems (WebMiRes); Learning, Agents and Formal Languages (LAFLang); Agent-based Modeling of Sustainable Behavior and Green Economies (AMSBGE); Emotional Software Agents (SSESA) and Intelligent Educational Systems (SSIES). The volume also includes the paper accepted for the Doctoral Consortium in PAAMS 2015. PAAMS, the International Conference on Practical Applications of Agents and Multi-Agent Systems is an evolution of the International Workshop on Practical Applications of Agents and Multi-Agent Systems. PAAMS is an international yearly tribune to present, to discuss and to disseminate the latest developments and the most important outcomes related to real-world applications. It provides a unique opportunity to bring multi-disciplinary experts, academics and practitioners together to exchange their experience in the development of Agents and Multi-Agent Systems. **Judgement-Proof Robots and Artificial Intelligence A Comparative Law and Economics Approach** Springer Nature This book addresses the role of public policy in regulating the autonomous artificial intelligence and related civil liability for damage caused by the robots (and any form of artificial intelligence). It is a very timely book, focusing on the consequences of judgment proofness of autonomous decision-making on tort law, risk and safety regulation, and the incentives stemming from these. This book is extremely important as regulatory endeavours concerning AI are in their infancy at most, whereas the industry's development is continuing in a strong way. It is an important scientific contribution that will bring scientific objectivity to a, to date, very one-sided academic treatment of legal scholarship on AI. **Future Data and Security Engineering 4th International Conference, FDSE 2017, Ho Chi Minh City, Vietnam, November 29 - December 1, 2017, Proceedings** Springer This book constitutes the refereed proceedings of the Third International Conference on Future Data and Security Engineering, FDSE 2016, held in Can Tho City, Vietnam, in November 2016. The 28 revised full papers and 7 short papers presented were carefully reviewed and selected from 128 submissions. The accepted papers were grouped into the following sessions: Advances in query processing and optimization Big data analytics and applications Blockchains and emerging authentication techniques Data engineering tools in software development Data protection, data hiding, and access control Internet of Things and applications Security and privacy engineering Social network data analytics and recommendation systems **Foundations of Artificial Intelligence** MIT Press In the 11 contributions, theorists historically associated with each position identify the basic tenets of their position. Have the classical methods and ideas of AI outlived their usefulness? Foundations of Artificial Intelligence critically evaluates the fundamental assumptions underpinning the dominant approaches to AI. In the 11 contributions, theorists historically associated with each position identify the basic tenets of their position. They discuss the underlying principles, describe the natural types of problems and tasks in which their approach succeeds, explain where its power comes from, and what its scope and limits are. Theorists generally skeptical of these positions evaluate the effectiveness of the method or approach and explain why it works - to the extent they believe it does - and why it eventually fails. Contents Foundations of AI: The Big Issues, D. Kirsh - Logic and Artificial Intelligence, N. J. Nilsson - Rigor Mortis: A Response to Nilsson's 'Logic and Artificial Intelligence, ' L. Birnbaum - Open Information Systems Semantics for Distributed Artificial Intelligence, C. Hewitt - Social Conceptions of Knowledge and Action: DAI Foundations and Open Systems Semantics, L. Gasser - Intelligence without Representation, R. A. Brooks - Today the Earwig, Tomorrow Man? D. Kirsh - On the Thresholds of Knowledge, D. B. Lenat, E. A. Feigenbaum - The Owl and the Electric Encyclopedia, B. C. Smith - A Preliminary Analysis of the Soar Architecture as a Basis for General Intelligence, P. S. Rosenbloom, J. E. Laird, A. Newell, R. McCarl - Approaches to the Study of Intelligence, D. A. Norman **Distributed Artificial Intelligence A Modern Approach** CRC Press Distributed Artificial Intelligence (DAI) came to existence as an approach for solving complex learning, planning, and decision-making problems. When we talk about decision making, there may be some meta-heuristic methods where the problem solving may resemble like operation research. But exactly, it is not related completely to management research. The text examines representing and using organizational knowledge in DAI systems, dynamics of computational ecosystems, and communication-free interactions among rational agents. This publication takes a look at conflict-resolution strategies for nonhierarchical distributed agents, constraint-directed negotiation of resource allocations, and plans for multiple agents. Topics included plan verification, generation, and execution, negotiation operators, representation, network management problem, and conflict-resolution paradigms. The manuscript elaborates on negotiating task decomposition and allocation using partial global planning and mechanisms for assessing nonlocal impact of local decisions in distributed planning. The book will attract researchers and practitioners who are working in management and computer science, and industry persons in need of a beginner to advanced understanding of the basic and advanced concepts. **Computer Fundamentals and Programming in C (RMK)** Computer Fundamentals and Programming in C, with its abounding, extensive chapter-end questions and unique pedagogy, is structured to address the challenges faced by novices as well as amateur programmers. Assuming no prior knowledge of programming languages, the book presents the reader with a rich collection of solved examples and exercises. **Introduction to Information Systems Supporting and Transforming Business** John Wiley & Sons WHATS IN IT FOR ME? Information technology lives all around us-in how we communicate, how we do business, how we shop, and how we learn. Smart phones, iPods, PDAs, and wireless devices dominate our lives, and yet it's all too easy for students to take information technology for granted. Rainer and Turban's Introduction to Information Systems, 2nd edition helps make Information Technology come alive in the classroom. This text takes students where IT lives-in today's businesses and in our daily lives while helping students understand how valuable information technology is to their future careers. The new edition provides concise and accessible coverage of core IT topics while connecting these topics to Accounting, Finance, Marketing, Management, Human resources, and Operations, so students can discover how critical IT is to each functional area and every business. Also available with this edition is WileyPLUS - a powerful online tool that provides instructors and students with an integrated suite of teaching and learning resources in one easy-to-use website. The WileyPLUS course for Introduction to Information Systems, 2nd edition includes animated tutorials in Microsoft Office 2007, with iPod content and podcasts of chapter summaries provided by author Kelly Rainer. **Storage Networks The Complete Reference** McGraw-Hill Osborne Media Discusses storage networks, covering architecture,

devices, connectivity options, data organization methods, and the two major models: Network Attached Storage and Storage Area Networking. **Industrial Agents Emerging Applications of Software Agents in Industry** Morgan Kaufmann Industrial Agents explains how multi-agent systems improve collaborative networks to offer dynamic service changes, customization, improved quality and reliability, and flexible infrastructure. Learn how these platforms can offer distributed intelligent management and control functions with communication, cooperation and synchronization capabilities, and also provide for the behavior specifications of the smart components of the system. The book offers not only an introduction to industrial agents, but also clarifies and positions the vision, on-going efforts, example applications, assessment and roadmap applicable to multiple industries. This edited work is guided and co-authored by leaders of the IEEE Technical Committee on Industrial Agents who represent both academic and industry perspectives and share the latest research along with their hands-on experiences prototyping and deploying industrial agents in industrial scenarios. Learn how new scientific approaches and technologies aggregate resources such next generation intelligent systems, manual workplaces and information and material flow system Gain insight from experts presenting the latest academic and industry research on multi-agent systems Explore multiple case studies and example applications showing industrial agents in a variety of scenarios Understand implementations across the enterprise, from low-level control systems to autonomous and collaborative management units **Process-Oriented Analysis and Validation of Multi-Agent-Based Simulations** Logos Verlag Berlin GmbH In multi-agent-based simulation (MABS) the behavior of individual actors is modeled in detail. The analysis and validation of these models is rated as difficult and requires support by innovative techniques and tools. Problems include model complexity, the amount and often qualitative representation of simulation results, and the typical dichotomy between microscopic modeling and macroscopic observation perspectives. In recent years, data mining has been increasingly applied as a support technique in this context. A particularly promising approach is found in the field of process mining. Due to its rooting in business process analysis, process mining shares several process- and organization-oriented analysis perspectives and use cases with agent-based modeling. This thesis proposes a conceptual framework for the systematic application of process mining to the analysis and validation of MABS. As a foundation, agent-oriented analysis perspectives and simulation-specific use cases are identified and complemented with methods, techniques, and results from the literature. A partial formalization of perspectives and use cases is sketched by utilizing concepts from process modeling and software engineering. Beyond the conceptual work, process mining is applied in two case studies related to different modeling and simulation approaches. **Arthur Lim The Physics of Information Technology** Cambridge University Press The Physics of Information Technology explores the familiar devices that we use to collect, transform, transmit, and interact with electronic information. Many such devices operate surprisingly close to very many fundamental physical limits. Understanding how such devices work, and how they can (and cannot) be improved, requires deep insight into the character of physical law as well as engineering practice. The book starts with an introduction to units, forces, and the probabilistic foundations of noise and signalling, then progresses through the electromagnetics of wired and wireless communications, and the quantum mechanics of electronic, optical, and magnetic materials, to discussions of mechanisms for computation, storage, sensing, and display. This self-contained volume will help both physical scientists and computer scientists see beyond the conventional division between hardware and software to understand the implications of physical theory for information manipulation. **SOFTWARE QUALITY AND TESTING A CONCISE STUDY** PHI Learning Pvt. Ltd. This book is aimed at emphasising the fundamental concepts associated with Software Quality and Software Testing from a balanced perspective of theory and practice. By presenting the information in an abstracted form, this text guides the readers through all aspects of developing quality software (across the entire development life cycle). The book is written around the strategy of error avoidance, error detection (and correction), and error tolerance (as a last resort). This text is well suited for teaching an academic course as a part of the Computer Science and/or Information Technology and/or MCA curriculum, or for conducting an equivalent training programme for professionals. KEY FEATURES : Emphasises on management people issues in quality management Written in bullet point form Chapters follow the natural evolution of quality management **Model-Driven Development with Executable UML** John Wiley & Sons **Computer Fundamentals & Programming in C** OUP India Computer Fundamentals and Programming in C is designed to serve as a textbook for the undergraduate students of engineering, computer science, computer applications, and information technology. The book seeks to provide a thorough overview of all the fundamental concepts related to computer science and programming. It lays down the foundation for all the advanced courses that a student is expected to learn in the following semesters. **CLASSIC DATA STRUCTURES, 2nd ed.** PHI Learning Pvt. Ltd. **Applications of Software Agent Technology in the Health Care Domain** Birkhäuser This volume contains a collection of papers that provides a unique, novel and up-to-date overview of how software agents technology is being applied in very diverse problems in health care, ranging from community care to management of organ transplants. It also provides an introductory survey that highlights the main issues to be taken into account when deploying agents in the health care area. The intended audience includes graduate and postgraduate students specializing in artificial intelligence and researchers interested in the application of new technologies. **Speaking Effectively Developing Speaking Skills for Business English** Speaking Effectively provides the trainer with a business English book which can be used as supplementary material or as the basis for a short course at the lower-intermediate level to develop fluency and language competence. All of the 14 units are short, easy-to-use and do not require much preparation on the part of the teacher. The three case studies interspersed throughout the book allow the learner the opportunity to use the language acquired in the preceding units in more extended speaking activities. Speaking Effectively is accompanied by a cassette with the tapescripts in the back of the book. **Managing Complexity** WIT Press Managing Complexity is the first book that clearly defines the concept of Complexity, explains how Complexity can be measured and tuned, and describes the seven key features of Complex Systems: ConnectivityAutonomyEmergencyNonequilibriumNon-linearitySelf-organisationCo-evolution The thesis of the book is that complexity of the environment in which we work and live offers new opportunities and that the best strategy for surviving and prospering under conditions of complexity is to develop adaptability to perpetually changing conditions. An effective method for designing adaptability into business processes using multi-agent technology is presented and illustrated by several extensive examples, including adaptive, real-time scheduling of taxis, see-going tankers, road transport, supply chains, railway trains, production processes and swarms of small space satellites. Additional case studies include adaptive servicing of the International Space Station; adaptive processing of design changes of large structures such as wings of the largest airliner in the world; dynamic data mining, knowledge discovery and distributed semantic processing. Finally, the book provides a foretaste of the next generation of complex issues, notably, The Internet of Things, Smart Cities, Digital Enterprises and Smart Logistics.