

## Amjad Umar Mobile Computing

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*Distributed Computing* Springer

This module of the handbook explains the mobile computing and EC/EB platforms, and application servers. Topics include M-commerce, middleware platforms for mobility (WAP, I-Mode, Wireless Java, BREW), C2B Ecommerce Platforms, B2B Platforms, Rosettanet, ebXML, multimedia servers, and Application Servers.

Next Generation Data Communication Technologies: Emerging Trends Pearson Education India

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. *Wireless Communications and Networks, 2e*, provides one of the most up-to-date and accurate overviews of wireless principles, technology, and application. It is ideal for courses in wireless networking, wireless communications, wireless data communications or wireless technology in departments of Computer Science, Engineering, IT, and Continuing Education. The rapid growth of mobile telephone use, satellite services, and the wireless Internet are generating tremendous changes in telecommunications and networking. Combining very current technical depth with a strong pedagogy and advanced Web support, this new edition provides a comprehensive guide to wireless technology—exploring key topics such as technology and architecture, network types, design approaches, and the latest applications.

*Islamic Cupping & Hijamah* IGI Global

Cotton Breeding and Biotechnology presents information on one of the most economically important crops of the world, cotton. This book contains chapters on the history of cotton; breeding approaches; technologies for increasing germination, crop growth and yield; and fiber quality issues. It emphasizes sustainable development in the cotton industry analysing the progress of breeding technologies under environmental adversity. The book explores the national and global status of cotton crop, including cotton production, possible impacts of climate change, and the vulnerability of cotton to pest infestations and disease attacks. Features Focuses on cotton breeding and biotechnology Proposes ideas, data, and strategies to mount breeding programs for enhancing cotton production Details strategies for cotton quality improvement against abiotic and biotic stresses Emphasizes the revival of cotton in Pakistan and South Asian region This book is useful to researchers, cotton breeders and growers, farmers, and the agriculture industry.

Proceedings & Exhibition--future Access IEEE

"This book contains case studies, theories, and empirical research aimed to assist individuals and organizations in understanding the critical concepts of data networking and communications"--Provided by publisher.

Cooperative Management of Enterprise Networks nge solutions, inc

With the increasing worldwide trend in population migration into urban centers, we are beginning to see the emergence of the kinds of mega-cities which were once the stuff of science fiction. It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real-time monitoring and response services for public utilities and transportation systems. Part speculative look into the future of the world's urban centers, part technical blueprint, this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's "smart cities" will run. Written by a uniquely well-qualified author team, this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality.

Data Management for Mobile Computing nge solutions, inc

Earth date, August 11, 1997 "Beam me up Scottie!" "We cannot do it! This is not Star Trek's Enterprise. This is early years Earth." True, this is not yet the era of Star Trek, we cannot beam captain James T. Kirk or captain Jean Luc Picard or an apple or anything else anywhere. What we can do though is beam information about Kirk or Picard or an apple or an insurance agent. We can beam a record of a patient, the status of an engine, a weather report. We can beam this information anywhere, to mobile workers, to field engineers, to a track loading apples, to ships crossing the Oceans, to web surfers. We have reached a point where the promise of information access anywhere and anytime is close to realization. The enabling technology, wireless networks, exists; what remains to be achieved is providing the infrastructure and the software to support the promise. Universal access and management of information has been one of the driving forces in the evolution of computer technology. Central computing gave the ability to perform large and complex computations and advanced information manipulation. Advances in networking connected computers together and led to distributed computing. Web technology and the Internet went even further to provide hyper-linked information access and global computing. However, restricting access stations to physical location limits the boundary of the vision.

Model-Driven Software Engineering in Practice Morgan Kaufmann

This book discusses how model-based approaches can improve the daily practice of software professionals. This is known as Model-Driven Software Engineering (MDSE) or, simply, Model-Driven Engineering (MDE). MDSE practices have proved to increase efficiency and effectiveness in software development, as demonstrated by various quantitative and qualitative studies. MDSE adoption in the software industry is foreseen to grow exponentially in the near future, e.g., due to the convergence of software development and business analysis. The aim of this book is to provide you with an agile and flexible tool to introduce you to the MDSE world, thus allowing you to quickly understand its basic principles and techniques and to choose the right set of MDSE instruments for your needs so that you can start to benefit from MDSE right away. The book is organized into two main parts. The first part discusses the foundations of MDSE in terms of basic concepts (i.e., models and transformations), driving principles, application scenarios, and current standards, like the well-known MDA initiative proposed by OMG (Object Management Group) as well as the practices on how to integrate MDSE in existing development processes. The second part deals with the technical aspects of MDSE, spanning from the basics on when and how to build a domain-specific modeling language, to the description of Model-to-Text and Model-to-Model transformations, and the tools that support the management of MDSE projects. The second edition of the book features: a set of completely new topics, including: full example of the creation of a new modeling language (IFML), discussion of modeling issues and approaches in specific domains, like business process modeling, user interaction modeling, and enterprise architecture complete revision of examples, figures, and text, for improving readability, understandability, and coherence better formulation of definitions, dependencies between concepts and

ideas addition of a complete index of book content In addition to the contents of the book, more resources are provided on the book's website <http://www.mdse-book.com>, including the examples presented in the book.

IEEE International Conference on Personal Wireless Communications nge solutions, inc  
Lifelong Machine Learning, Second Edition is an introduction to an advanced machine learning paradigm that continuously learns by accumulating past knowledge that it then uses in future learning and problem solving. In contrast, the current dominant machine learning paradigm learns in isolation: given a training dataset, it runs a machine learning algorithm on the dataset to produce a model that is then used in its intended application. It makes no attempt to retain the learned knowledge and use it in subsequent learning. Unlike this isolated system, humans learn effectively with only a few examples precisely because our learning is very knowledge-driven: the knowledge learned in the past helps us learn new things with little data or effort. Lifelong learning aims to emulate this capability, because without it, an AI system cannot be considered truly intelligent. Research in lifelong learning has developed significantly in the relatively short time since the first edition of this book was published. The purpose of this second edition is to expand the definition of lifelong learning, update the content of several chapters, and add a new chapter about continual learning in deep neural networks—which has been actively researched over the past two or three years. A few chapters have also been reorganized to make each of them more coherent for the reader. Moreover, the authors want to propose a unified framework for the research area. Currently, there are several research topics in machine learning that are closely related to lifelong learning—most notably, multi-task learning, transfer learning, and meta-learning—because they also employ the idea of knowledge sharing and transfer. This book brings all these topics under one roof and discusses their similarities and differences. Its goal is to introduce this emerging machine learning paradigm and present a comprehensive survey and review of the important research results and latest ideas in the area. This book is thus suitable for students, researchers, and practitioners who are interested in machine learning, data mining, natural language processing, or pattern recognition. Lecturers can readily use the book for courses in any of these related fields.

E-Business and Distributed Systems Handbook Psychology Press

Enterprises all over the world are experiencing a rapid development of networked computing for applications that are required for the daily survival of an organization. Client-server computing offers great potential for cost-effective networked computing. However, many organizations have now learned that the cost of maintenance and support of these networked distributed systems far exceeds the cost of buying them. Computer Supported Creative Work (CSCW) is the new evolving area that promotes the understanding of business processes and relevant communication technologies. Cooperative Management of Enterprise Networks uses CSCW as the medium for conveying ideas on the integration of business processes with network and systems management. This book will be useful for systems management professionals wishing to know about business process integration; business managers wishing to integrate their tasks with network/systems management; software system developers wishing to adopt participatory design practices; and students and researchers.

Comprehensive Dissertation Index nge solutions, inc

This book includes the proceedings of the 15th International Conference on Complex, Intelligent, and Software Intensive Systems, which took place in Asan, Korea, on July 1 – 3, 2021. Software intensive systems are systems, which heavily interact with other systems, sensors, actuators, devices, and other software systems and users. More and more domains are involved with software intensive systems, e.g., automotive, telecommunication systems, embedded systems in general, industrial automation systems, and business applications. Moreover, the outcome of web services delivers a new platform for enabling software intensive systems. Complex systems research is focused on the overall understanding of systems rather than its components. Complex systems are very much characterized by the changing environments in which they act by their multiple internal and external interactions. They evolve and adapt through internal and external dynamic interactions. The development of intelligent systems and agents, which is each time more characterized by the use of ontologies and their logical foundations build a fruitful impulse for both software intensive systems and complex systems. Recent research in the field of intelligent systems, robotics, neuroscience, artificial intelligence, and cognitive sciences is very important factor for the future development and innovation of software intensive and complex systems. The aim of the book is to deliver a platform of scientific interaction between the three interwoven challenging areas of research and development of future ICT-enabled applications: Software intensive systems, complex systems, and intelligent systems.

Information Security and Auditing in the Digital Age Morgan & Claypool Publishers

This module explains the growing number of Application Servers and their variants (Mobile Application Servers, Commerce Servers, B2B Servers, Multimedia and Collaboration Servers). This is one module of an extensive handbook that systematically discusses how to translate e-business strategies to working solutions by using the latest distributed computing technologies. The focus of this module of the handbook is on application servers that package several middleware and infrastructure services into a platform for development, deployment, and management of modern applications. Chapters of this module explain the principles of application servers and systematically discuss a) Mobile Application Servers based on WAP, I-Mode, J2ME, and others; b) Commerce Servers based on e-payment systems, electronic catalogs, XML, secure C2B trade; c) B2B Servers based on ebXML, Web Services, workflows, EDI, EAI; d) Multimedia and Collaboration Servers based on groupware, SMIL and RTP; and e) "Super Application Servers" that combine numerous services needed for Web, mobile applications, and EC/EB applications on a single platform (IBM's WebSphere is an example). Chapters of the module also include several real life examples and case studies to highlight practical applications. Additional information and instructor material available from author website ([www.amjadumar.com](http://www.amjadumar.com)).

Object-oriented Client/server Internet Environments IGI Global

This text is the most complete and up to date book on Hijamah at this time, it cuts straight into the subject and quenches the curiosity of the reader whether it be a layperson, prospective patient or seasoned medical professional. Dr Latib's experience and insight into Hijamah and traditional medicine as well as his rigor in correlating it with scientific findings is reflected throughout this guide. He shares with us the complete and comprehensive depth to this topic and empowers the reader in understanding and applying the concepts, rules and guidelines regarding Hijamah in order to improve general health and benefit from this oft misunderstood and sometimes feared medical procedure

Cotton Breeding and Biotechnology nge solutions, inc

This comprehensive work presents the status and likely development of fault diagnosis, an emerging discipline of modern control engineering. It covers fundamentals of model-based fault diagnosis in a wide context, providing a good introduction to the theoretical foundation and many basic approaches of fault detection.

Mobile Computing and Wireless Communications Oxford University Press

OVERVIEW: This book presents a practical coverage of strategic planning of digital enterprises with emphasis on a computer aided methodology and a toolset. This work is based on corporate experience, consulting assignments, teaching graduate level courses, and research in computer aided

strategic planning, engineering and management. The emphasis and format of the book has been greatly influenced by practical insights gained through numerous consulting assignments and discussions with practitioners from different industry segments and World class organizations such as the United Nations, the Fulbright Foundation, Bell Communications Research Lab, IBM, Society of Manufacturing Engineers and Ford Motors. Development of graduate level courses in this overall area at the University of Pennsylvania, Harrisburg University of Science and Technology, and Fordham Graduate School of Business have also influenced this book. The salient features of this classroom tested book are: - Emphasis on enterprise planning for digital transformation - Focus on the planning, integration, security and administration of smart digital enterprises - Balance of business and technologies, not just pure business or technology - Numerous case studies and examples to illustrate the key points - More than 300 illustrations that help to capture the key ideas - A step by step methodology that shows how all the pieces fit together - A computer aided toolset (SPACE - Strategic Planning, Architectures, Controls and Education) that can be used in classroom exercises, hands-on corporate training workshops and computer aided consulting for small to medium businesses (SMBs) around the globe - Lecture materials, homework assignments and team projects for graduate level education - Learning tools in each chapter such as break points with review questions to help the readers as they move along. The basic premise of this book is that although strategic thinking and strategic planning are extremely important in organizations, they are not sufficient to assure success. The strategic plans have to be translated into working solutions that can be implemented and managed. Simply stated, all the activities in the entire Learn-Plan-Do-Check cycle need to be paid equal attention. To support this goal, we have created the following support materials.

**COURSEPACK:** It contains this textbook (in eBook format), 4 month access to the SPACE Platform and the Smart Communities Living Lab that has been developed by using SPACE to support our United Nations Partnership. The Coursepack can be obtained through the Publisher site ([www.ngesolutions.com](http://www.ngesolutions.com)) or the author site ([www.ngesolutions.com](http://www.ngesolutions.com)). **INSTRUCOR MATERIALS:** Classroom tested lecture slides can be freely downloaded from the author site. Instructors can access student projects, homeworks, sample exams, and other teaching materials through an instructor only site. See the author site ([www.amjadumar.com](http://www.amjadumar.com)) for details.

Computer Aided Strategic Planning for Digital Enterprises nge solutions, inc  
Umar provides a collection of powerful services to support the e-business and m-business initiatives of today and tomorrow. (Computer Books)

Punjab Reconsidered EDI Publishers

Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world. They open up significant opportunities in several areas, such as economic growth, health, wellness, energy efficiency, and transportation, to promote the sustainable development of cities. This book provides the basics of smart cities, and it examines the possible future trends of this technology. Smart Cities: Foundations, Principles, and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities. Divided into three parts—foundations, principles, and applications—Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer. It also covers smart city theory modeling and simulation, and examines case studies of existing smart cities from all around the world. In addition, the book: Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science, engineering, and technology of smart cities—including system design, system verification, real-time control and adaptation, Internet of Things, and test beds Covers applications of smart cities as they relate to smart transportation/connected vehicle (CV) and Intelligent Transportation Systems (ITS) for improved mobility, safety, and environmental protection Smart Cities: Foundations, Principles, and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city-related industries.

E-Business and Distributed Systems Handbook CRC Press

75003-4 Building advanced Web-based enterprise applications: a comprehensive, systematic approach. Three technologies are converging to dramatically change the nature of application development: client/server, object-orientation, and the Internet. This book is a complete guide to successfully integrating all of these technologies in your new enterprise applications. Expert consultant and project manager Dr. Amjad Umar shows how to establish data architectures, application architectures, and frameworks that enable successful Web-based software development. He presents a detailed methodology for using middleware to engineer new applications--or reengineer existing ones. He also offers a systematic approach to cope with legacy systems--including legacy data access, data warehousing and application migration/transition strategies. For each major issue confronting developers, Umar considers the state of today's marketplace, as well as trends that will powerfully impact development projects in the near future. The book contains extensive guidelines, implementation examples and case studies, using a wide range of technologies, including: CORBA. ActiveX. PowerBuilder. Encina. CGI and other Web gateways The book includes short tutorials on object-oriented concepts, distributed objects, the World Wide Web, and client/server middleware. Each chapter is written as a self-contained tutorial--making the book a valuable resource not only for IT professionals, but also for trainers, teachers, and advanced students.

Transportation and Power Grid in Smart Cities Prentice Hall

This book consists of selected papers written by the founder of fuzzy set theory, Lotfi A Zadeh. Since Zadeh is not only the founder of this field, but has also been the principal contributor to its development over the last 30 years, the papers contain virtually all the major ideas in fuzzy set theory, fuzzy logic, and fuzzy systems in their historical context. Many of the ideas presented in the papers are still open to further development. The book is thus an important resource for anyone interested in the areas of fuzzy set theory, fuzzy logic, and fuzzy systems, as well as their applications. Moreover, the book is also intended to play a useful role in higher education, as a rich source of supplementary reading in relevant courses and seminars. The book contains a bibliography of all papers published by Zadeh in the period 1949-1995. It also contains an introduction that traces the development of Zadeh's ideas pertaining to fuzzy sets, fuzzy logic, and fuzzy systems via his papers. The ideas range from his 1965 seminal idea of the concept of a fuzzy set to ideas reflecting his current interest in computing with words ? a computing in which linguistic expressions are used in place of numbers. Places in the papers, where each idea is presented can easily be found by the reader via the Subject Index.

An Introduction to Machine Learning John Wiley & Sons

This book, suitable for IS/IT courses and self study, presents a comprehensive coverage of the technical as well as business/management aspects of mobile computing and wireless communications. Instead of one narrow topic, this classroom tested book covers the major building blocks (mobile applications, mobile computing platforms, wireless networks, architectures, security, and management) of mobile computing and wireless communications. Numerous real-life case studies and examples highlight the key points. The book starts with a discussion of m-business and m-government initiatives and examines mobile computing applications such as mobile messaging, m-commerce, M-CRM, M-portals, M-SCM, mobile agents, and sensor applications. The role of wireless Internet and Mobile IP is explained and the mobile computing platforms are analyzed with a discussion of wireless middleware, wireless gateways, mobile application servers, WAP, i-mode, J2ME, BREW, Mobile Internet Toolkit, and Mobile Web Services. The wireless networks are discussed at length with a review of wireless communication principles, wireless LANs with emphasis on 802.11 LANs, Bluetooth, wireless sensor networks, UWB (Ultra Wideband), cellular networks ranging from 1G to 5G, wireless local loops, FSO (Free Space Optics), satellites communications, and deep space networks. The book concludes with a review of the architectural, security, and management/support issues and their role in building, deploying and managing wireless systems in modern settings.

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