
Mobile Computing In Construction

Computer Applications in Construction

Using Computer Science in Construction Careers

Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications

Construction Process Improvement

Managing Business in the Civil Construction Sector Through Information Communication Technologies

Computing in Civil and Building Engineering (2014)

A Digital Path to Sustainable Infrastructure Management

Data Management for Mobile Computing

Fall Prevention Through Design in Construction

Mobile and Pervasive Computing in Construction

Advances in Mobile Cloud Computing Systems

FUNDAMENTALS OF MOBILE COMPUTING

Cooperative Design, Visualization, and Engineering

Mobile Computing

Re-skilling Human Resources for Construction 4.0

Any Time, Anywhere Computing

Handbook of Algorithms for Wireless Networking and Mobile Computing

Resource Management in Mobile Computing Environments

Advances in Construction ICT and e-Business

A Digital Path to Sustainable Infrastructure Management

Mobile Computing, Applications, and Services

Construction 4.0

Smartphone-Based Indoor Map Construction

Resource Management in Mobile Computing Environments

Information Technology for Construction Managers, Architects and Engineers

Advanced Methodologies and Technologies in Network Architecture, Mobile Computing, and Data Analytics

MOBILE COMPUTING

Leadership, Innovation and Entrepreneurship as Driving Forces of the Global Economy

Mobile Information Communication Technologies Adoption in Developing Countries

Practical Smart Device Design and Construction

AI-Based Services for Smart Cities and Urban Infrastructure

Advances in Construction ICT and e-Business

Uses of Mobile Information Technology Devices in the Field for Design, Construction, and Asset Management

Proceedings of the 18th International Conference on Computing in Civil and Building Engineering

Mobile Computing Techniques in Emerging Markets: Systems, Applications and Services

eWork and eBusiness in Architecture, Engineering and Construction

Advances in Informatics and Computing in Civil and Construction Engineering

Advances in Information Technology in Civil and Building Engineering

Advances in Information Technology in Civil and Building Engineering

Sustainability in Project Management

Mobile Computing In Construction

Downloaded from archive.imba.com by
guest

GAMBLE JAYLEN

Computer Applications in Construction IGI Global

With the rapid development of the Internet of Things, a gap has emerged in skills versus knowledge in an industry typically segmented into hardware versus software. Practitioners are now expected to possess capabilities across the spectrum of hardware and software skills to create these smart devices. This book explores these skill sets in an instructive way, beginning at the foundations of what makes “smart” technology smart, addressing the basics of hardware and hardware design, software, user experiences, and culminating in the considerations and means of

building a fully formed smart device, capable of being used in a commercial capacity, versus a DIY project. Practical Smart Device Design and Construction includes a set of starter projects designed to encourage the novice to build and learn from doing. Each project also includes a summary guiding you where to go next, and how to tie the practical, hands-on experience together with what they have learned to take the next step on their own. What You'll Learn Practical smart device design and construction considerations such as size, power consumption, wiring needs, analog vs digital, and sensor types and uses Methods and tools for creating their own designs such as circuit board designs; and wiring and prototyping tools Hands-on guidance through their own prototype projects and building it alongside the projects in this book Software considerations for speed versus ease,

security, and basics of programming and data analytics for smart devices. Who This Book Is For: Those with some technical skills, or at least a familiarity with technical topics, who are looking for the means and skills to start experimenting with combined hardware and software projects in order to gain familiarity and comfort with the smart device space.

Using Computer Science in Construction Careers Springer

This volume aims to outline the fundamental principles behind leadership, innovation and entrepreneurship and show how the interrelations between them promote business and trade practices in the global economy. Derived from the 2016 International Conference on Leadership, Innovation, and Entrepreneurship (ICLIE), this volume showcases original papers presenting current research, discoveries and innovations across disciplines such as business, social sciences, engineering, health sciences and medicine. The pace of globalization is increasing at a rapid rate and is primarily driven by increasing volume of trade, accelerating pace of competition among nations, freer flows of capital and increased level of cooperation among trading partners. Leadership, innovation, and entrepreneurship are key driving forces in enhancing this phenomenon and are among the major catalysts for contemporary businesses trading in the global economy. This conference and the enclosed papers provides a platform in which to disseminate and exchange ideas to promote a better understanding of current issues and solutions to challenges in the globalized economy in relation to the fields of entrepreneurship, business and economics, technology management, and Islamic finance and management. Thus, the theories, research, innovations, methods and practices presented

in this book will be of use to researchers, practitioners, student and policy makers across the globe.

Mobile Computing and Wireless Networks: Concepts, Methodologies, Tools, and Applications Routledge

Within computer science, the construction industry offers many career opportunities, from designing a building information modeling system to incorporating virtual and augmented reality technologies into projects. To encourage more students to pursue computer science jobs, this book examines careers that combine interests in both computer science and construction, highlighting different jobs, educational requirements, and job search tips. By reading profiles of real jobs in the construction industry, readers can be inspired by the success stories of people who blend a passion for computer science with a career in the construction industry.

Construction Process Improvement PHI Learning Pvt. Ltd.

"TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 491: Uses of Mobile Information Technology Devices in the Field for Design, Construction, and Asset Management documents the state-of-the-practice and state-of-the-art applications of state transportation agencies related to their use of mobile information technology (IT) devices. Specifically, the report reviews applications pertaining to the areas of design, construction, and asset management. Mobile IT devices such as laptop computers, mini-laptop computers, handheld multifunctional data collectors, tablets, and smartphones also play a role in bringing the transportation industry into digital platforms."--Publisher's description

Managing Business in the Civil Construction Sector Through

Information Communication Technologies John Wiley & Sons
 The Handbook of Algorithms for Wireless Networking and Mobile Computing focuses on several aspects of mobile computing, particularly algorithmic methods and distributed computing with mobile communications capability. It provides the topics that are crucial for building the foundation for the design and construction of future generations of mobile and wireless networks, including cellular, wireless ad hoc, sensor, and ubiquitous networks. Following an analysis of fundamental algorithms and protocols, the book offers a basic overview of wireless technologies and networks. Other topics include issues related to mobility, aspects of QoS provisioning in wireless networks, future applications, and much more.

Computing in Civil and Building Engineering (2014) Routledge
 Through the material, readers are given the ability to analyze systematically a potential area of need - such as a function in a department - to determine whether a computer application might help to assess the costs and benefits of alternative proposals and to proceed from that analysis to a clear specification for what the proposed solution should accomplish. There is also coverage of how computer professionals evaluate hardware and design the software and systems that will implement a given application. Furthermore, readers will learn how to manage the people, resources, time, and money required in the development process for creating a given application program or for adapting a package application to the needs specified in the design.

A Digital Path to Sustainable Infrastructure Management

Taylor & Francis

This book focuses on ubiquitous indoor localization services,

specifically addressing the issue of floor plans. It combines computer vision algorithms and mobile techniques to reconstruct complete and accurate floor plans to provide better location-based services for both humans and vehicles via commodity smartphones in indoor environments (e.g., a multi-layer shopping mall with underground parking structures). After a comprehensive review of scene reconstruction methods, it offers accurate geometric information for each landmark from images and acoustics, and derives the spatial relationships of the landmarks and rough sketches of accessible areas with inertial and WiFi data to reduce computing overheads. It then presents the authors' recent findings in detail, including the optimization and probabilistic formulations for more solid foundations and better robustness to combat errors, several new approaches to promote the current sporadic availability of indoor location-based services, and a holistic solution for floor plan reconstruction, indoor localization, tracking, and navigation. The novel approaches presented are designed for different types of indoor environments (e.g., shopping malls, office buildings and labs) and different users. A valuable resource for researchers and those in start-ups working in the field, it also provides supplementary material for students with mobile computing and networking backgrounds.

Data Management for Mobile Computing Routledge

The concept of sustainability has grown in recognition and importance. The pressure on companies to broaden their reporting and accountability from economic performance for shareholders, to sustainability performance for all stakeholders is leading to a change of mindset in consumer behaviour and

corporate policies. How can we develop prosperity without compromising the life and needs of future generations? Sustainability in Project Management explores and identifies the questions surrounding the integration of the concepts of sustainability in projects and project management and provides valuable guidance and insights. Sustainability relates to multiple perspectives, economical, environmental and social, but also to responsibility and accountability and values in terms of ethics, fairness and equality. The authors will inspire project managers to be aware of these considerations, and to apply them to the role they play in projects, not just 'doing things right' but 'doing the right things right'.

Fall Prevention Through Design in Construction Emerald Group Publishing

This textbook addresses the main topics associated with mobile computing and wireless networking at a level that enables the students to develop a fundamental understanding of the technical issues involved in this new and fast emerging discipline. The book first examines the basics of wireless technologies and computer communications that form the essential infrastructure required for building knowledge in the area of mobile computations involving the study of invocation mechanisms at the client end, the underlying wireless communication, and the corresponding server-side technologies. The book includes coverage of development of mobile cellular systems, protocol design for mobile networks, special issues involved in the mobility management of cellular system users, realization and applications of mobile ad hoc networks (MANETs), design and operation of sensor networks, special constraints and

requirements of mobile operating systems, and development of mobile computing applications. Finally, an example application of the mobile computing infrastructure to M-commerce is described in the concluding chapter of the book. This book is suitable as an introductory text for a one-semester course in mobile computing for the undergraduate students of Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, Master of Computer Applications (MCA), and the undergraduate and postgraduate science courses in computer science and Information Technology. KEY FEATURES : Provides unified coverage of mobile computing and communication aspects Discusses the mobile application development, mobile operating systems and mobile databases as part of the material devoted to mobile computing Incorporates a survey of mobile operating systems and the latest developments such as the Android operating system

Mobile and Pervasive Computing in Construction McGraw-Hill Companies

Many industries have struggled to realize the importance of modern technology, but none more so than the construction industry. By employing various computer-aided management systems, construction businesses have increased their profitability and the systematic way their companies function. Managing Business in the Civil Construction Sector Through Information Communication Technologies supplies a compendium of innovative research that highlights the use of computer-aided design and tools and the vital role that such forms of information technology have to play in the actual production activities of any civil construction company. Subsequent chapters focus on equally

vital areas such as that of construction management, contracts management, materials management, human resource management, and enterprise resource planning. Chapters on cloud computing technology, internet of things, and artificial intelligence enable readers to acquire an overview and grasp the basics of these latest trending technologies. This book is ideally designed for construction firms, students, entrepreneurs, industry professionals, IT consultants, and academicians.

Advances in Mobile Cloud Computing Systems The Rosen Publishing Group, Inc

This book constitutes the thoroughly refereed post-conference proceedings of the Fourth International Conference on Mobile Computing, Applications, and Services (MobiCASE 2012) held in Seattle, Washington, USA, in October 2012. The 18 revised full papers presented together with 9 revised poster papers were carefully reviewed and selected from 51 submissions. The conference papers are organized in five topical sections, covering mobile application development, multi-dimensional interactions, system support and architecture, mobile applications, and mobile services.

FUNDAMENTALS OF MOBILE COMPUTING Springer

This internationally conducted study of the latest construction industry practices addresses a broad range of Information and Communication Technology applications. Drawing on research conducted in the US and UK, this book presents the state of the art of various ebusiness processes, and examines BIM, virtual environments and mobile technologies. Innovation is a theme that runs throughout this book, so in addition to the direct impact of these new technical achievements, it also considers the

management styles that helped them to emerge. Examples from industry are illustrated with case studies and presented alongside research from some of the best known academics in this field. This book is essential reading for all advanced students and researchers interested in how ICT is changing construction management and the construction industry.

Cooperative Design, Visualization, and Engineering IGI Global

This book gathers the latest advances, innovations, and applications in the field of information technology in civil and building engineering, presented at the 18th International Conference on Computing in Civil and Building Engineering (ICCCBE), São Paulo, Brazil, August 18-20, 2020. It covers highly diverse topics such as BIM, construction information modeling, knowledge management, GIS, GPS, laser scanning, sensors, monitoring, VR/AR, computer-aided construction, product and process modeling, big data and IoT, cooperative design, mobile computing, simulation, structural health monitoring, computer-aided structural control and analysis, ICT in geotechnical engineering, computational mechanics, asset management, maintenance, urban planning, facility management, and smart cities. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Mobile Computing Springer Nature

This book reports the latest advances on the design and development of mobile computing systems, describing their applications in the context of modeling, analysis and efficient

resource management. It explores the challenges on mobile computing and resource management paradigms, including research efforts and approaches recently carried out in response to them to address future open-ended issues. The book includes 26 rigorously refereed chapters written by leading international researchers, providing the readers with technical and scientific information about various aspects of mobile computing, from basic concepts to advanced findings, reporting the state-of-the-art on resource management in such environments. It is mainly intended as a reference guide for researchers and practitioners involved in the design, development and applications of mobile computing systems, seeking solutions to related issues. It also represents a useful textbook for advanced undergraduate and graduate courses, addressing special topics such as: mobile and ad-hoc wireless networks; peer-to-peer systems for mobile computing; novel resource management techniques in cognitive radio networks; and power management in mobile computing systems.

Re-skilling Human Resources for Construction 4.0 Springer Nature Modelled on the concept of Industry 4.0, the idea of Construction 4.0 is based on a confluence of trends and technologies that promise to reshape the way built environment assets are designed, constructed, and operated. With the pervasive use of Building Information Modelling (BIM), lean principles, digital technologies, and offsite construction, the industry is at the cusp of this transformation. The critical challenge is the fragmented state of teaching, research, and professional practice in the built environment sector. This handbook aims to overcome this fragmentation by describing Construction 4.0 in the context of its

current state, emerging trends and technologies, and the people and process issues that surround the coming transformation. Construction 4.0 is a framework that is a confluence and convergence of the following broad themes discussed in this book: Industrial production (prefabrication, 3D printing and assembly, offsite manufacture) Cyber-physical systems (actuators, sensors, IoT, robots, cobots, drones) Digital and computing technologies (BIM, video and laser scanning, AI and cloud computing, big data and data analytics, reality capture, Blockchain, simulation, augmented reality, data standards and interoperability, and vertical and horizontal integration) The aim of this handbook is to describe the Construction 4.0 framework and consequently highlight the resultant processes and practices that allow us to plan, design, deliver, and operate built environment assets more effectively and efficiently by focusing on the physical-to-digital transformation and then digital-to-physical transformation. This book is essential reading for all built environment and AEC stakeholders who need to get to grips with the technological transformations currently shaping their industry, research, and teaching.

Any Time, Anywhere Computing Taylor & Francis

This book reports the latest advances on the design and development of mobile computing systems, describing their applications in the context of modeling, analysis and efficient resource management. It explores the challenges on mobile computing and resource management paradigms, including research efforts and approaches recently carried out in response to them to address future open-ended issues. The book includes 26 rigorously refereed chapters written by leading international

researchers, providing the readers with technical and scientific information about various aspects of mobile computing, from basic concepts to advanced findings, reporting the state-of-the-art on resource management in such environments. It is mainly intended as a reference guide for researchers and practitioners involved in the design, development and applications of mobile computing systems, seeking solutions to related issues. It also represents a useful textbook for advanced undergraduate and graduate courses, addressing special topics such as: mobile and ad-hoc wireless networks; peer-to-peer systems for mobile computing; novel resource management techniques in cognitive radio networks; and power management in mobile computing systems.

Handbook of Algorithms for Wireless Networking and Mobile Computing CRC Press

Cities are the next frontier for artificial intelligence to permeate. As smart urban environments become possible, probable, and even preferred, artificial intelligence offers the chance for even further advancement through infrastructure and industry boosting. Opportunity overflows, but without thorough research to guide a complicated development and implementation process, urban environments can become disorganized and outright dangerous for citizens. *AI-Based Services for Smart Cities and Urban Infrastructure* is a collection of innovative research that explores artificial intelligence (AI) applications in urban planning. In addition, the book looks at how the internet of things and AI can work together to enable a real smart city and discusses state-of-the-art techniques in urban infrastructure design, construction, operation, maintenance, and management.

While highlighting a broad range of topics including construction management, public transportation, and smart agriculture, this book is ideally designed for engineers, entrepreneurs, urban planners, architects, policymakers, researchers, academicians, and students.

Resource Management in Mobile Computing Environments
Springer Nature

This proceedings volume chronicles the papers presented at the 35th CIB W78 2018 Conference: IT in Design, Construction, and Management, held in Chicago, IL, USA, in October 2018. The theme of the conference focused on fostering, encouraging, and promoting research and development in the application of integrated information technology (IT) throughout the life-cycle of the design, construction, and occupancy of buildings and related facilities. The CIB – International Council for Research and Innovation in Building Construction – was established in 1953 as an association whose objectives were to stimulate and facilitate international cooperation and information exchange between governmental research institutes in the building and construction sector, with an emphasis on those institutes engaged in technical fields of research. The conference brought together more than 200 scholars from 40 countries, who presented the innovative concepts and methods featured in this collection of papers.

Advances in Construction ICT and e-Business John Wiley & Sons

The construction process has come under intense scrutiny in recent times and this is set to continue as building owners and users demand better value for money from a more sustainable built environment. The construction sector's actors are responding to the challenges implicit in this drive for greater

competitiveness and social responsibility. New forms of procurement, innovation programmes, knowledge management, CAD-supported processes, predictive and diagnostic tools, and many more initiatives are helping to transform the sector. Construction Process Improvement showcases 21 examples of how directed efforts are being taken to raise productivity and quality, reduce waste and costs, and provide more certain and durable products for the sector's customers. Each example is the subject of a closely coupled collaborative project in which answers are being sought on matters of strategic importance to companies. The chapters that describe and discuss these projects balance state-of-the-art reviews with details of the work being undertaken and, in many cases, the results that are being implemented within the companies. Construction Process Improvement deals with issues that matter to best practice companies and researchers in industry and universities. It covers, amongst other topics, modularisation for manufactured housing, life cycle methods in housing, commercial buildings and services installations, tools and techniques for performance prediction and diagnostics, coordination of design and production processes, novel use of traditional materials, new forms of procurement and the role of innovation, public private partnerships, partnering structures, learning organisations, management of major refurbishment, management information systems, TQM and continuous improvement, CAAD methodology, tools and 4-D CAD, and facilities management. This book analyses the way forward for improving the construction process, in particular the links between research and development and industrial competitiveness. The implementation of new methods and

thinking in companies is examined and important advice for senior managers and researchers is offered.

A Digital Path to Sustainable Infrastructure Management

IGI Global

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 locations limits the boundary of the vision. The real global network can be achieved only via the ability to compute and access information from anywhere and anytime. This is the fundamental wish that motivates mobile computing. This evolution is the cumulative result of both hardware and software advances at various levels motivated by tangible application needs. Infrastructure research on communications and networking is essential for realizing wireless systems. Equally important is the design and implementation of data management applications for these systems, a task directly affected by the characteristics of the wireless medium and the resulting mobility of data resources and computation. Although a relatively new area, mobile data management has provoked a proliferation of research efforts motivated both by a great market potential and by many challenging research problems. The focus of Data Management for Mobile Computing is on the impact of mobile computing on data management beyond the networking level.

The purpose is to provide a thorough and cohesive overview of recent advances in wireless and mobile data management. The book is written with a critical attitude. This volume probes the new issues introduced by wireless and mobile access to data and their conceptual and practical consequences. Data Management for Mobile Computing provides a single source for researchers and practitioners who want to keep abreast of the latest

innovations in the field. It can also serve as a textbook for an advanced course on mobile computing or as a companion text for a variety of courses including courses on distributed systems, database management, transaction management, operating or file systems, information retrieval or dissemination, and web computing.

Related with Mobile Computing In Construction:

- System In Chemistry Definition : [click here](#)