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Mobile and Pervasive Computing in Construction Chimay J. Anumba, Xiangyu Wang, 2012-09-04 Construction researchers and industry practitioners have begun to explore the possibilities offered by mobile and pervasive computing in architecture engineering and construction AEC It is expected that the construction industry will be keen to apply these technologies as they promise significant benefits in areas such as materials management project management distributed collaboration and information management all leading to improvements in productivity This book offers a comprehensive reference volume to the use of mobile and pervasive computing in construction Based on contributions from a mix of leading researchers and experts from academia and industry it provides up to date insights into current research topics in this field as well as the latest technological advancements and practical examples The chapters introduce the key theoretical concepts in mobile and pervasive computing and highlight the applications and solutions which are available to the construction industry More specifically the book focuses on the manner in which these technologies can be applied to improve practices in construction and related industries This book will be of particular interest to academics researchers and graduate students at universities and industrial practitioners seeking to apply mobile and pervasive computing systems to improve construction industry productivity *More Computer Programs for Construction Management* Construction Industry Computing Association, 1984

Advances in Informatics and Computing in Civil and Construction Engineering Ivan Mutis, Timo Hartmann, 2018-10-08 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 *Computing and Communication in the Construction Industry* National Consultative Council of the Building and Civil Engineering Industries. Standing Committee on Computing and Data Co-ordination, 1978

Using Computer Science in Construction Careers Carla Mooney, 2018-12-15 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

Computer Integrated Planning and Design for Construction Arkady Retik, D. A. Langford, 2001 This book focuses on the intelligent application of advanced information technology tools such as CAD and KBES to design and planning in construction It describes and explains the current applications of computer tools presents new ideas for their use in design and planning processes and in particular concentrates on the preliminary design stage Computer Integrated Planning and Design for Construction aims to demonstrate the implementation of these ideas and uncover the extraordinary opportunities for design improvement as a result

Computing & Communication in the Construction Industry Great Britain. Department of the Environment. Standing Committee on Computing and Data Co-ordination, 1979

Computer Applications in Construction Boyd C. Paulson, 1995 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

eWork and eBusiness in Architecture, Engineering and Construction Attila Dikbas, Raimar Scherer, 2004-08-15 Biannually since 1994 the European Conference on Product and Process Modelling in the Building and Construction Industry has provided a review of research given valuable future work outlooks and provided a communication platform for future co operative research and development at both European and global levels This volume of special interest t

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Construction Project Management Using Small Computers Glen Peters, 1984 Introduces Project Management Explains Available Management Tools Techniques

The Specification of a Building Industry Computer Workstation, 1982

Computers in the Construction Industry Michael A. Clocksin, 1965

Infrastructure Computer Vision Ioannis Brilakis, Carl Thomas Michael Haas, 2019-11-28 Infrastructure Computer Vision delves into this field of computer science that works on enabling computers to see identify process images and provide appropriate output in the same way that human vision does However implementing these advanced information and sensing technologies is difficult for many engineers This book provides civil engineers with the technical detail of this advanced technology and how to apply it to their individual projects Explains how to best capture raw geometrical and visual data from infrastructure scenes and

assess their quality Offers valuable insights on how to convert the raw data into actionable information and knowledge stored in Digital Twins Bridges the gap between the theoretical aspects and real life applications of computer vision

Building Product Models Charles M Eastman,2018-02-06 Building Product Models thoroughly presents the concepts technology and methods now used to work out what will become the building product model a new digital representation for architecture civil engineering and building construction Organized into three sections history current tools and concepts and existing efforts and research issues this resource provides the field of building product modeling with a standard reference as well as a single comprehensive text for university courses Until now all the efforts in building modeling have been reported in research journals and conference proceedings or been made available as draft standards on the Internet Building Product Models is the only book available on this vital field bringing together essential aspects of major efforts from the early 1970s to the present

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Digital Fabrication in Architecture, Engineering and Construction Luca Caneparo,2013-10-02 Digital technologies are changing the relationship between design and construction with computer models CAD CAM and prototyping designers can gain direct control of building and construction processes The ability to digitally model designs and thus to use those models directly in the context of production creates a synthesis between design and construction in keeping with the tradition of the close relationship between design and craftsmanship between the quality of the design and the rules of the craft The evolution of the culture of design and construction is the underlying theme of this book The aim is to discuss the direction that innovation is now taking with a particular focus on today s cutting edge architectures The method addresses the ways in which different societies have dealt with the issues of their age regarding design and construction the different contributions provided by various techniques and with them the meanings expressed by the architecture As building design using digital tools requires specific skills in the fabrication processes and in the languages used by information technology the book also offers a practical guide to new methods and techniques of managing and controlling fabrication for AEC A systematic analysis of new skills used in the design process presents an overview of opportunities for architects and engineers By collecting information on significant projects and analyzing them the book explores the technical and artistic potential of digital technology The cases studied are the outcomes of groundbreaking projects which were able to give form and significance to technological research They show that digital tools are not the exclusive prerogative of large firms but can also be adopted by teams working across small and medium sized firms firms which have been able to use informed research to link innovative design with the possibilities offered by digital fabrication in architecture

Fuzzy Hybrid Computing in Construction Engineering and Management Aminah Robinson Fayek,2018-10-05 This book is a guide for students researchers and practitioners to the latest developments in fuzzy hybrid computing in construction engineering and management It discusses basic theory related to fuzzy logic and fuzzy hybrid computing their application in a range of practical construction problems and emerging and

future research trends

Computer Literature Bibliography United States. National Bureau of Standards, 1965

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