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KEY=STRUCTURAL - VIRGINIA TYRESE

ADVANCES IN INFORMATICS AND COMPUTING IN CIVIL AND CONSTRUCTION ENGINEERING

PROCEEDINGS OF THE 35TH CIB W78 2018 CONFERENCE: IT IN DESIGN, CONSTRUCTION, AND MANAGEMENT

Springer 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.

INTERNATIONAL SCIENTIFIC CONFERENCE ENERGY MANAGEMENT OF MUNICIPAL TRANSPORTATION FACILITIES AND TRANSPORT EMMFT 2017

Springer This book includes the proceedings of the 19th International Scientific Conference "Energy Management of Municipal Transportation Facilities and Transport EMMFT 2017", which was held in Khabarovsk, Russia on 10–13 April 2017. The book presents the research findings of scientists working at universities in the Far Eastern, Siberian and Ural Federal Districts of Russia, and of Serbia, which are unique regions notable for sustainably operating complex transport infrastructures in severe climatic and geographic environments. It also offers practical insights into transportation operation under such conditions.The book discusses the experiences of colleagues from Slovenia, Ukraine and Latvia in the development of transport infrastructure and construction of transport facilities and features and includes the results of a wide range of studies, such as managing multimodal transportation, improving the efficiency of locomotives, electric locomotives, traction substations, electrical substations, relay protection and automation devices, and power-factor correction units. It addresses topics like renewable energy sources, problems of the mathematical and simulation modelling of electromagnetic processes of electrical power objects and systems, aspects of cost reduction for fuel-and-power resources, theoretical aspects of energy management, development of transport infrastructure, modern organizational and technological solutions in construction, new approaches in the field of management, analysis and monitoring in transport sector.Comprising 142 high-quality articles covering a wide range of topics, these proceedings are of interest to anyone engaged in transport engineering, electric power systems, energy management, construction and operation of transport infrastructure buildings and facilities.

BEYOND DATABASES, ARCHITECTURES AND STRUCTURES. TOWARDS EFFICIENT SOLUTIONS FOR DATA ANALYSIS AND KNOWLEDGE REPRESENTATION

13TH INTERNATIONAL CONFERENCE, BDAS 2017, USTROŃ, POLAND, MAY 30 - JUNE 2, 2017, PROCEEDINGS

Springer This book constitutes the refereed proceedings of the 13th International Conference entitled Beyond Databases, Architectures and Structures, BDAS 2017, held in Ustroń, Poland, in May/June 2017. It consists of 44 carefully reviewed papers selected from 118 submissions. The papers are organized in topical sections, namely big data and cloud computing; artificial intelligence, data mining and knowledge discovery; architectures, structures and algorithms for efficient data processing; text mining, natural language processing, ontologies and semantic web; bioinformatics and biological data analysis; industrial applications; data mining tools, optimization and compression.

APPLIED MECHANICS REVIEWS

INTELLIGENCE AND SAFETY FOR HUMANOID ROBOTS: DESIGN, CONTROL, AND APPLICATIONS

Frontiers Media SA

THE INDUSTRIAL ELECTRONICS HANDBOOK - FIVE VOLUME SET

CRC Press Industrial electronics systems govern so many different functions that vary in complexity-from the operation of relatively simple applications, such as electric motors, to that of more complicated machines and systems, including robots and entire fabrication processes. The Industrial Electronics Handbook, Second Edition combines traditional and new

AUTODESK ROBOT STRUCTURAL ANALYSIS PROFESSIONAL 2015

ESSENTIALS

Autodesk Robot Structural Analysis Professional 2015 - Essentials is an excellent introduction to the essential features, functions, and workflows of Autodesk Robot Structural Analysis Professional. Master the tools you will need to make Robot work for you: Go from zero to proficiency with this thorough and detailed introduction to the essential concepts and workflows of Robot Structural Analysis Professional 2015. - Demystify the interface - Manipulate and manage Robot tables like a pro - Learn how to use Robot's modeling tools - Master loading techniques - Harness Robot automated load combinations - Decipher simplified seismic loading - Discover workflows for steel and concrete design - Gain insights to help troubleshoot issues Guided exercises are provided to help cement fundamental concepts in Robot Structural Analysis and drive home key functions. Get up to speed quickly with this essential text and add Robot Structural Analysis Professional 2015 to your analysis and design toolbox.

LARGE SPACE STRUCTURES & SYSTEMS IN THE SPACE STATION ERA

A BIBLIOGRAPHY WITH INDEXES

RESOURCES IN EDUCATION

HANDBOOK OF HUMAN FACTORS AND ERGONOMICS

John Wiley & Sons "This is the fourth edition of the market-leading reference for human factors and ergonomics researchers, academics, and professionals. Editor Gavriel Salvendy, a well-known and respected authority, has assembled the top thinkers and practitioners from throughout the world to update this volume. It features new coverage of voice communication, multi-modal design, human-robot communication, call center design and operation, design of electronic games, and much more.Plus new and expanded coverage of Human Error and Human Reliability Analysis"--Provided by publisher.

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND COMPUTER VISION (AICV2020)

Springer Nature This book presents the proceedings of the 1st International Conference on Artificial Intelligence and Computer Visions (AICV 2020), which took place in Cairo, Egypt, from April 8 to 10, 2020. This international conference, which highlighted essential research and developments in the fields of artificial intelligence and computer visions, was organized by the Scientific Research Group in Egypt (SRGE). The book is divided into sections, covering the following topics: swarm-based optimization mining and data analysis, deep learning and applications, machine learning and applications, image processing and computer vision, intelligent systems and applications, and intelligent networks.

SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

FIELD AND SERVICE ROBOTICS

Springer Science & Business Media Joe Engelberger, the pioneer of the robotics industry, wrote in his 1989 book Robotics in Service that the inspiration to write his book came as a reaction to an industry-sponsored forecast study of robot applications, which predicted that in 1995 applications of robotics outside factories - the traditional domain of industrial robots - would amount to less than 1% of

total sales. Engelberger believed that this forecast was very wrong, and instead predicted that the non-industrial class of robot applications would become the largest class. Engelbergers prediction has yet to come to pass. However, he did correctly foresee the growth in non-traditional applications of robots. Robots are now beginning to march from the factories and into field and service applications. This book presents a selection of papers from the first major international conference dedicated to field and service applications of robotics. This selection includes papers from the leading research laboratories in the world together with papers from companies that are building and selling new and innovative robotic technology. It describes interesting aspects of robots in the field ranging from mining, agriculture, construction, cargo handling, subsea operations, removal of landmines, to terrestrial exploration. It also covers a diverse range of service applications, such as cleaning, propagating plants and aiding the elderly and handicapped, and gives considerable attention to the technology required to realise robust, reliable and safe robots.

LARGE SPACE STRUCTURES & SYSTEMS IN THE SPACE STATION ERA

A BIBLIOGRAPHY WITH INDEXES

COMPUTATIONAL LINGUISTICS AND TALKING ROBOTS

PROCESSING CONTENT IN DATABASE SEMANTICS

Springer Science & Business Media The practical task of building a talking robot requires a theory of how natural language communication works. Conversely, the best way to computationally verify a theory of natural language communication is to demonstrate its functioning concretely in the form of a talking robot, the epitome of human–machine communication. To build an actual robot requires hardware that provides appropriate recognition and action interfaces, and because such hardware is hard to develop the approach in this book is theoretical: the author presents an artificial cognitive agent with language as a software system called database semantics (DBS). Because a theoretical approach does not have to deal with the technical difficulties of hardware engineering there is no reason to simplify the system – instead the software components of DBS aim at completeness of function and of data coverage in word form recognition, syntactic–semantic interpretation and inferencing, leaving the procedural implementation of elementary concepts for later. In this book the author first examines the universals of natural language and explains the Database Semantics approach. Then in Part I he examines the following natural language communication issues: using external surfaces; the cycle of natural language communication; memory structure; autonomous control; and learning. In Part II he analyzes the coding of content according to the aspects: semantic relations of structure; simultaneous amalgamation of content; graph-theoretical considerations; computing perspective in dialogue; and computing perspective in text. The book ends with a concluding chapter, a bibliography and an index. The book will be of value to researchers, graduate students and engineers in the areas of artificial intelligence and robotics, in particular those who deal with natural language processing.

ANNUAL CONFERENCE PROCEEDINGS

CONTROLO 2020

PROCEEDINGS OF THE 14TH APCA INTERNATIONAL CONFERENCE ON AUTOMATIC CONTROL AND SOFT COMPUTING, JULY 1-3, 2020, BRAGANÇA, PORTUGAL

Springer Nature This book offers a timely and comprehensive snapshot of research and developments in the field of control engineering. Covering a wide range of theoretical and practical issues, the contributions describes a number of different control approaches, such adaptive control, fuzzy and neuro-fuzzy control, remote and robust control systems, real time an fault tolerant control, among others. Sensors and actuators, measurement systems, renewable energy systems, aerospace systems as well as industrial control and automation, are also comprehensively covered. Based on the proceedings of the 14th APCA International Conference on Automatic Control and Soft Computing, held on July 1-3, 2020, in Bragança, Portugal, the book offers a timely and thoroughly survey of the latest research in the field of control, and a source of inspiration for researchers and professionals worldwide.

SPRINGER HANDBOOK OF ROBOTICS

Springer Science & Business Media With the science of robotics undergoing a major transformation just now, Springer's new, authoritative handbook on the subject couldn't have come at a better time. Having broken free from its origins in industry, robotics has been rapidly expanding into the challenging terrain of unstructured environments. Unlike other handbooks that focus on industrial applications, the Springer Handbook of Robotics incorporates these new developments. Just like all Springer Handbooks, it is utterly comprehensive, edited by internationally renowned experts, and replete with contributions from leading researchers from around the world. The handbook is an ideal resource for robotics experts but also for people new to this expanding field.

CHILTON'S I & C S.

MANAGEMENT, A BIBLIOGRAPHY FOR NASA MANAGERS

MANAGEMENT

NASA SP-7500

MANAGEMENT, A CONTINUING BIBLIOGRAPHY WITH INDEXES

AUTODESK ROBOT STRUCTURAL ANALYSIS PROFESSIONAL 2013

ESSENTIALS

Autodesk Robot Structural Analysis Professional 2013 - Essentials is an excellent introduction to the essential features, functions, and workflows of Autodesk Robot Structural Analysis Professional. Master the tools you will need to make Robot work for you: Go from zero to fundamental proficiency with this thorough and detailed introduction to the essential concepts and workflows of Robot Structural Analysis Professional 2013. - Demystify the interface - Manipulate and manage Robot tables like a pro - Learn how to use Robot's modeling tools - Master loading techniques - Harness Robot automated load combinations - Decipher simplified seismic loading - Discover workflows for steel and concrete design - Gain insights to help troubleshoot issues Guided exercises are provided to help cement fundamental concepts in Robot Structural Analysis and drive home key functions. Get up to speed quickly with this essential text and add Robot Structural Analysis Professional 2013 to your analysis and design toolbox.

CONTINUAL IMPROVEMENT: A BIBLIOGRAPHY WITH INDEXES, 1992-1993

ADVANCES IN INDUSTRIAL DESIGN

PROCEEDINGS OF THE AHFE 2020 VIRTUAL CONFERENCES ON DESIGN FOR INCLUSION, AFFECTIVE AND PLEASURABLE DESIGN, INTERDISCIPLINARY PRACTICE IN INDUSTRIAL DESIGN, KANSEI ENGINEERING, AND HUMAN FACTORS FOR APPAREL AND TEXTILE ENGINEERING, JULY 16–20, 2020, USA

Springer Nature This book addresses current research trends and practice in industrial design. Going beyond the traditional design focus, it explores a range of recent and emerging aspects concerning service design, human–computer interaction and user experience design, sustainable design, virtual & augmented reality, as well as inclusive/universal design, and design for all. A further focus is on apparel and fashion design: here, innovations, developments and challenges in the textile industry, including applications of material engineering, are taken into consideration. Papers on pleasurable and affective design, including studies on emotional user experience, emotional interaction design and topics related to social networks make up a major portion of the contributions included in this book, which is based on five AHFE 2020 international conferences (the AHFE 2020 Virtual Conference on Design for Inclusion, the AHFE 2020 Virtual Conference on Interdisciplinary Practice in Industrial Design, the AHFE 2020 Virtual Conference on Affective and Pleasurable Design, the AHFE 2020 Virtual Conference on Kansei Engineering, and the AHFE 2020 Virtual Conference on Human Factors for Apparel and Textile Engineering) held on July 16–20, 2020. Thanks to its multidisciplinary approach, it provides graduate students, researchers and professionals in engineering, architecture, computer and materials science with extensive information on research trends, innovative methods and best practices, and a unique bridge fostering collaborations between experts from different disciplines and sectors.

THE NATIONAL GUIDE TO EDUCATIONAL CREDIT FOR TRAINING PROGRAMS

SPACE STATION SYSTEMS

SUPPLEMENT

ADVANCES IN TOXICOLOGY AND RISK ASSESSMENT OF NANOMATERIALS AND EMERGING CONTAMINANTS

Springer Nature

THE STRUCTURAL ENGINEER

JOURNAL OF THE INSTITUTION OF STRUCTURAL ENGINEERS

THE INTERNATIONAL JOURNAL OF APPLIED ENGINEERING EDUCATION

MONTHLY CATALOGUE, UNITED STATES PUBLIC DOCUMENTS

THE JOB ANALYSIS HANDBOOK FOR BUSINESS, INDUSTRY, AND GOVERNMENT

John Wiley & Sons

BIM HANDBOOK

A GUIDE TO BUILDING INFORMATION MODELING FOR OWNERS, DESIGNERS, ENGINEERS, CONTRACTORS, AND FACILITY MANAGERS

John Wiley & Sons Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

MONTHLY CATALOG OF UNITED STATES GOVERNMENT PUBLICATIONS

ENERGY RESEARCH ABSTRACTS

SOVIET JOURNAL OF COMPUTER AND SYSTEMS SCIENCES

PROCEEDINGS IECON.

ROBOT ANALYSIS AND CONTROL

John Wiley & Sons Introduces the basic concepts of robot manipulation--the fundamental kinematic and dynamic analysis of manipulator arms, and the key techniques for trajectory control and compliant motion control. Material is supported with abundant examples adapted from successful industrial practice or advanced research topics. Includes carefully devised conceptual diagrams, discussion of current research topics with references to the latest publications, and end-of-book problem sets. Appendixes. Bibliography.

INDUSTRIAL EDUCATION

PROCEEDINGS IECON '85

1985 INTERNATIONAL CONFERENCE ON INDUSTRIAL ELECTRONICS, CONTROL, AND INSTRUMENTATION, HYATT REGENCY HOTEL, SAN FRANCISCO, CALIFORNIA, NOVEMBER 18-22, 1985 : INDUSTRIAL APPLICATIONS OF MINI, MICRO & PERSONAL COMPUTERS