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Design and Operation of Locomotion Systems examines recent advances in locomotion systems with multidisciplinary viewpoints, including mechanical design, biomechanics, control and computer science. In particular, the book addresses the specifications and requirements needed to achieve the proper design of locomotion systems. The book provides insights on the gait analysis of humans by considering image capture systems. It also studies human locomotion from a rehabilitation viewpoint and outlines the design and operation of exoskeletons, both for rehabilitation and human performance enhancement tasks. Additionally, the book content ranges from fundamental theory and mathematical formulations, to practical implementations and experimental testing procedures. Written and contributed by leading experts in robotics and locomotion systems Addresses humanoid locomotion from both design and control viewpoints Discusses the design and control of multi-legged locomotion systems

Provides general guidance and information on systems engineering that will be useful to the NASA community. It provides a generic description of Systems Engineering (SE) as it should be applied throughout NASA. The handbook will increase awareness and consistency across the Agency and advance the practice of SE. This handbook provides perspectives relevant to NASA and data particular to NASA. Covers general concepts and generic descriptions of processes, tools, and techniques. It provides information on systems engineering best practices and pitfalls to avoid. Describes systems engineering as it should be applied to the development and implementation of large and small NASA programs and projects. Charts and tables.

Embedded systems encompass a variety of hardware and software components which perform specific functions in host systems, for example, satellites, washing machines, hand-held telephones and automobiles. Embedded systems have become increasingly digital with a non-digital periphery (analog power) and therefore, both hardware and software codesign are relevant. The vast majority of computers manufactured are used in such systems. They are called 'embedded' to distinguish them from standard mainframes, workstations, and PCs. Although the design of embedded systems has been used in industrial practice for decades, the systematic design of such systems has only recently gained increased attention. Advances in microelectronics have made possible applications that would have been impossible without an embedded system design. Embedded System Applications describes the latest techniques for embedded system design in a variety of applications. This also includes some of the latest software tools for embedded system design. Applications of embedded system design in avionics, satellites, radio astronomy, space and control systems are illustrated in separate chapters. Finally, the book contains chapters related to industrial best-practice in embedded system design. Embedded System Applications will be of interest to researchers and designers working in the design of embedded systems for industrial applications.

Due to an ever-decreasing supply in raw materials and stringent constraints on conventional energy sources, demand for lightweight, efficient and low-cost structures has become crucially important in modern engineering design. This requires engineers to search for optimal and robust design options to address design problems that are commonly large in scale and highly nonlinear, making finding solutions challenging. In the past two decades, metaheuristic algorithms have shown promising power, efficiency and versatility in solving these difficult optimization problems. This book examines the latest developments of metaheuristics and their applications in structural engineering, construction engineering and earthquake engineering, offering practical case studies as examples to demonstrate real-world applications. Topics cover a range of areas within engineering, including big bang-big crunch approach, genetic algorithms, genetic programming, harmony search, swarm intelligence and some other metaheuristic methods. Case studies include structural identification, vibration analysis and control, topology optimization, transport infrastructure design, design of reinforced concrete, performance-based design of structures and smart pavement management. With its wide range of everyday problems and solutions, Metaheuristic Applications in Structures and Infrastructures can serve as a supplementary text for design courses and computation in engineering as well as a reference for researchers and engineers in metaheuristics, optimization in civil engineering and computational intelligence. Review of the latest development of metaheuristics in engineering. Detailed algorithm descriptions with focus on practical implementation. Uses practical case studies as examples and applications.

The two volumes IFIP AICT 397 and 398 constitute the thoroughly refereed post-conference proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2012, held in Rhodes, Greece, in September 2012. The 182 revised full papers were carefully reviewed and selected for inclusion in the two volumes. They are organized in 6 parts: sustainability; design, manufacturing and production management; human factors, learning and innovation; ICT and emerging technologies in production management; product and asset lifecycle management; and services, supply chains and operations.

Owners and managers rely on today's accounting professional to identify and monitor enterprise risks and to provide quality assurance for a company's information systems. ACCOUNTING INFORMATION SYSTEMS, 10E focuses on three critical accounting information systems in use today: enterprise systems, e-Business systems, and controls for maintaining those systems. The text fully explores the integrated nature of AIS with its foundations in information technology, business processes, strategic management, security, and internal controls. Students will easily grasp even the most challenging subjects as they explore today's most intriguing AIS topics discussed in a conversational and relaxed tone rather than complex technical language. The tenth edition provides students with the necessary tools for organizing and managing information to help them succeed and protect the integrity of their employer's information system. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This two volume set LNCS 10438 and LNCS 10439 constitutes the refereed proceedings of the 28th International Conference on Database and Expert Systems Applications, DEXA 2017, held in Lyon, France, August 2017. The 37 revised full papers presented together with 40 short papers were carefully reviewed and selected from 166 submissions. The papers discuss a range of topics including: Semantic Web and Semantics; Graph Matching; Data Modeling, Data Abstraction, and Uncertainty; Preferences and Query Optimization; Data Integration and RDF Matching; Security and Privacy; Web Search; Data Clustering; Top-K and Skyline Queries; Data Mining and Big Data; Service Computing; Continuous and Temporal Data, and Continuous Query Language; Text Processing and Semantic Search; Indexing and Concurrency Control Methods; Data Warehouse and Data Stream Warehouse; Data Mining and Machine Learning; Recommender Systems and Query Recommendation; Graph Algorithms; Semantic Clustering and Data Classification.

February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index