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A compact and efficient CRISPR-Cas system, named CasMINI, could be broadly useful for cell-engineering and gene-therapy applications because it is easier to deliver into cells. The findings appear in ...

Researchers Engineer a Mini CRISPR Genetic Editing System That Could Be Easier To Deliver Into Cells

The Software Engineering Institute (SEI) is formalizing the practice of AI Engineering under the leadership of Dr. Matt Gaston, an AI veteran.

Executive Interview: Dr. Matt Gaston, CMU Software Engineering Institute
Plant managers are seeking increased intelligence in their robots, from networking to vision systems. Improving plant operations can be a matter of marrying the two worlds of robot and line control ...

Want a Smarter Robot Application? Give It Eyesight and Networking
Tendo hired two veteran software executives to lead development of its platform and applications to transform the healthcare experience.

Veteran Product and Engineering Leaders From Workday and Salesforce Join Tendo to Build Transformational Healthcare Software
An affordable and adaptable system with a scalable architecture allows for incremental

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system upgrades, minimizes obsolescence and speeds up development cycles.

Open to innovation: Why modular open systems are key to the future of DOD

PEAK6 encourages its engineers to be part of the recruitment process; for Gathof, one of the most rewarding experiences has been seeing interviewees go from application to offer ... and Airflow as key ...

Looking for a New Engineering Role? These Companies Are Hiring.

New Duke University Department of Biomedical Engineering faculty member Sharon Gerecht uses biomaterials and other engineered environments to help stem cells evolve into vascular cells, the foundation ...

Engineering stem cells for blood vessel growth is focus of new Duke bioengineering professor

A computer science and engineering professor at The University of Texas at Arlington is using a grant from the National Science Foundation (NSF) to determine how to detect and eliminate biases in web ...

UTA researchers combatting bias in web

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database applications

Solar panels near Slovakia's Mochovce Nuclear Power Plant, 2014. Through flexible operation, nuclear power plants can enhance the efficiency of renewables. (Photo: A. Evrensel/IAEA) On the path to ...

Nuclear and Renewables: Modelling Tool to Evaluate Hybrid Energy Systems

MIT engineers have developed anew method to remove toxic lead from drinking water without getting rid of crucial minerals.

MIT engineers develop new method to remove lead from drinking water

Firms relying on cloud computing never know the total costs of these resources until their billing cycle completes. Infracost provides developers with cloud cost estimates based on changes they make ...

Infracost Raises \$2.2m From Sequoia To Help Engineers Lower Their Cloud Computing Costs

It was only last January that Trive Capital—a Dallas-based PE firm—formed Karman in a partnership with AMRO Fabricating and Aerospace Engineering. The Systima acquisition is the fifth transaction ...

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Trive-Backed Karman Systems Acquires Systema Technologies, Speeding Its Push Into Space and Hypersonic Markets

Tech in Petroleum Engineering (Regular) and M. Tech (Research) in Petroleum Engineering that create industry-ready professionals in production engineering, drilling engineering, refining and transport ...

Admissions open for 2021 Petroleum Engineering Programs

A new research project at Rowan University's Center for Research and Education in Advanced Transportation Engineering Systems (CREATES) aims to teach students real-world geotechnical engineering ...

Gaming to improve geotechnical engineering education—and broaden diversity

The Command Control Systems Market research report added by MarketInsightsReports is an in depth analysis of the latest trends market size status upcoming technologies industry drivers challenges ...

Command and Control Systems Market Growing Demands, Supply and Business Outlook 2021 to 2027| Lockheed Martin, Raytheon, Thales (NYSE: SAIC) and By Light Professional IT Services have formed a team to compete for an

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architecture, engineering and integration contract in support of the U.S. Air Force's Mission Partner ...

BAE-SAIC-By Light Team to Pursue USAF MPE Engineering Support Contract; Lisa Hand Quoted

SAKOR Technologies provided the University of Houston's Department of Electrical and Computer Engineering with a dynamometer test system designed to test motor and inverter designs for use in hybrid ...

SAKOR Technologies provides new dynamometer system to U of Houston for testing electric motor, inverter & control system designs Exclusive collaboration brings together polymers excellence from both worlds: Borealis in polypropylene (PP) capacitor film, and TOPAS Advanced Polymers in cyclic ...

Borealis and TOPAS Advanced Polymers currently developing new class of engineering material for film capacitor applications Global "Architectural Engineering and Construction Market" research report presents a detailed analysis of the industry ...

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Architectural Engineering and Construction Market Share, Future Growth, Industry Size, Key Players, Market Segments and Forecast 2021-2026

The Packaged Water Treatment System Market report provides a brief picture with opinion by the enhanced data related to Packaged Water Treatment System market. The Packaged Water Treatment System ...

Mechatronics is a blend of mechanical engineering, electrical engineering, computer control and information technology.

Mechatronics is a design process to create more functional and adaptable products. By integrating the best design practices with the most advanced technologies, mechatronics aims at comprehending high-quality products, promising at the same time a substantial reduction of time and costs of manufacturing. Mechatronic systems are manifold and range from machine components, motion generators, and power producing machines to more complex devices, such as robotic systems and transportation vehicles. Over the years mechatronics has come to mean a methodology for designing products that exhibit fast, precise performance. These characteristics can be achieved by considering not only the mechanical design, but also the use of servo controls, sensors, and electronics.

Mechatronics has been popular in Japan and

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Europe for many years but has been slow to gain industrial and academic acceptance as a field and practice in Great Britain and the United States. In the past, machine and product design has been the domain of mechanical engineers. After the machine was designed by mechanical engineers, solutions to control and programming problems were added by software and computer engineers. This sequential-engineering approach usually resulted in less-than-optimal designs and is now recognized as less than optimal itself. The prime role of mechatronics is one of initiation and integration throughout the entire design process, with the mechatronics engineer as the leader. Mechatronic Systems Applications delivers an excellent review of contemporary work in the sphere of mechatronics with applications in numerous fields, like robotics, medical and assistive technology, human-machine interaction, unmanned vehicles, manufacturing, and education. Experts in the interdisciplinary mechatronics field must be able to use the special knowledge resources of other people and the particular blend of technologies that will provide the most economic, innovative, elegant, and appropriate solution to the problem at hand. Industry needs mechatronics engineers to continue to rapidly develop innovative products with performance, quality and low cost.

This book constitutes the refereed

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proceedings of the 8th International Conference on Object-Oriented Information Systems, OOIS 2002, held in Montpellier, France, in September 2002. The 34 revised full papers and 17 short papers presented were carefully reviewed and selected from 116 submissions. The papers are organized in topical sections on developing web services, object databases, XML and web, component and ontology, UML modeling, object modeling and information systems adaptation, e-business models and workflow, performance and method evaluation, programming and tests, software engineering metrics, web-based information systems, architecture and Corba, and roles and evolvable objects.

The primary purpose of systems engineering is to organize information and knowledge to assist those who manage, direct, and control the planning, development, production, and operation of the systems necessary to accomplish a given mission. However, this purpose can be compromised or defeated if information production and organization becomes an end unto itself. Systems engineering was developed to help resolve the engineering problems that are encountered when attempting to develop and implement large and complex engineering projects. It depends upon integrated program planning and development, disciplined and consistent allocation and control of design and development requirements and functions, and

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systems analysis. The key thesis of this report is that proper application of systems analysis and systems engineering will improve the management of tank wastes at the Hanford Site significantly, thereby leading to reduced life cycle costs for remediation and more effective risk reduction. The committee recognizes that evidence for cost savings from application of systems engineering has not been demonstrated yet.

Systems. Microwave transmission, control, detection, and generation. Microwave measurements. Microwave subsystems.

A comprehensive, integrated guide to engineering and manufacturing applications of expert systems.

In system design (in particular, industrial control systems), there is, and has been, a continuous need to sense real-world analog quantities (such as temperature, pressure, or humidity), make computations with them, and then perform some action with the result. In today's systems, the computations need to be made at increased speeds and the accuracy with which the computations must be made, even as the speed increases, must be the same or higher as time progresses. The advent of the microcontroller, and its extensive use in all types of control applications, many of them battery powered, has led to new control system design approaches. Rather than

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computing using analog quantities, the analog quantities are sensed, conditioned, and converted to digital, processed digitally, and then converted back to an analog output, which is then used to perform the necessary output action. This practical textbook covers the latest techniques in microcontroller-based control system design. It is aimed at engineering students and engineers new to working with microcontrollers. It covers the fundamentals of: 1. Sensors and the electrical signals they output. 2. The design and application of the electronic circuits that receive and condition (change or modify) the sensor analog signals. 3. The design and application of the circuits that convert analog signals to digital and digital signals to analog. 4. The makeup and operation of a microcontroller and how to program it. 5. The application of electronic circuits for system power control. The book, written by an experienced microcontroller engineer and textbook author, is suitable for community college students, technical school students, technicians and engineers just being introduced to microcontroller system design. It is an introductory book, focusing on real-world implementation of a basic control system, with real-world circuit examples. Readers will find clearly written discussion coupled with lots of illustrations. They will also find worked-out examples that illustrate principles within each chapter and quizzes to aid understanding. Besides these specifics, a

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hands-on project, suitable for an electronics microcontroller laboratory course, using the popular and low-cost TI MSP430 microcontroller, is discussed in detail. The accompanying CD-ROM contains microcontrollers application notes, code for the software examples, and problem solutions. * Seasoned Texas Instruments designer provides a ground-up perspective on embedded control systems * Pedagogical style provides a self-learning approach with examples, quizzes and review features * CD-ROM contains source code and more!

Software Engineering for Embedded Systems: Methods, Practical Techniques, and Applications, Second Edition provides the techniques and technologies in software engineering to optimally design and implement an embedded system. Written by experts with a solution focus, this encyclopedic reference gives an indispensable aid on how to tackle the day-to-day problems encountered when using software engineering methods to develop embedded systems. New sections cover peripheral programming, Internet of things, security and cryptography, networking and packet processing, and hands on labs. Users will learn about the principles of good architecture for an embedded system, design practices, details on principles, and much more. Provides a roadmap of key problems/issues and references to their solution in the text Reviews core methods and

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how to apply them Contains examples that demonstrate timeless implementation details Users case studies to show how key ideas can be implemented, the rationale for choices made, and design guidelines and trade-offs

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