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David Brobst, partner with Solutions Cubed, a Chico, CA embedded design firm, replaced a mechanical timer in a lawn sprinkler system with a Microchip 8-pin microcontroller. "Microcontrollers open up a ...

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The eBOX565 is Axiomtek's latest and most advanced compact fanless embedded computer. The new system's compact dimensions and durability make it ...

Axiomtek Presents an Ultra-Compact Fanless Embedded Computer for Applications in Warehouse Automation and Intelligent Manufacturing – eBOX565

Parasoft, a global leader in automated software testing for over 30 years, partnered with medical industry leaders, Smiths Medical and Inovytec, to help

streamline the delivery of life-saving medical ...

Leading Medical Device Companies Leverage Parasoft to Continuously Evolve Embedded Software Development Workflow
OEMs play key roles in the company’s strategic initiatives, including edge computing and Dell APEX-as-a-Service offerings.

Dell and the OEM Roots of Edge Computing
The Global Wireless Phone Charging market accounted for US$ 11.9 billion in 2020 and is estimated to be US$ 79.0 million by 2030 and is anticipated to register a CAGR of 20.9%. The delivery of energy ...

Global Wireless Phone Charging Market is estimated to be US$ 79.0 billion by 2030 with a CAGR of 20.9% during the forecast period - by PMI
Velodyne Lidar, Inc. (Nasdaq: VLDR, VLDRW) today announced it has joined the NVIDIA Metropolis program for Velodyne's Intelligent Infrastructure Solution for traffic monitoring and analytics. NVIDIA (...

Velodyne Lidar Partners with NVIDIA Metropolis for Intelligent Infrastructure Solutions
Memory module is integrated within a sub-system, enabling customers to fast-track their development and release new productsHOD HASHARON, Israel, (GLOBE NEWSWIRE) -- Weebit Nano Limited (ASX:WBT), a ...

Weebit completes design and tape-out of embedded ReRAM module
SANTA CLARA, Calif., June 22, 2021 (GLOBE NEWSWIRE) -- Borqs Technologies, Inc. (Nasdaq: BRQS), (the “Company”, or “Borqs”), a global leader in embedded software and products for the ...

Borqs Technologies Begins Delivery of Cellular CTA-2045 Products to SkyCentrics for Use by Utility Companies for Smart City Deployment
Danfoss Power Solutions has partnered with Carnegie Robotics to strengthen its portfolio of autonomous products and solutions. The company's first autonomous vehicle controller, the PLUS+1® XM100 and ...

Danfoss Power Solutions and Carnegie Robotics partner to enhance autonomous solutions for the off-highway market
Alcatraz AI discusses what an autonomous access control platform can do as COVID-19 continues to muddy the security scene ...

How to plan for a future-proofed access control system
Selim Aissi, Industry Veteran CISO & information security leader, joins FundingShield Advisory Board as part of continued growth & expansion efforts.

Selim Aissi, Industry Veteran CISO and Information Security Leader, Joins FundingShield Advisory Board
City of Industry, CA, June 23, 2021 --(PR.com ... a wide range of industrial computer solutions such as single board computers, embedded systems, IoT gateway devices, touch panel computers ...

Axiomtek Introduces the AI-Powered Box PC with NVIDIA® Jetson Xavier™ NX for 5G and AMR Applications – AIE900A-NX
Socionext is a global, innovative enterprise that designs, develops and delivers System-on-Chip solutions to customers worldwide ... Flex Logix is headquartered in Mountain View, California with ...

Socionext Licenses Flex Logix's Embedded FPGA (eFPGA) for 5G Wireless Base Station Platform
Users deploy the platform to transform videos into rich, interactive media with embedded ... Systems Ltd. is a Canadian publicly traded company (TSX:ENGH), which provides enterprise software ...

Enghouse Systems Acquires Momindum SAS
DesignCon’s content will be joined by Drive World and the Embedded Systems Conference ... Its automotive and energy solutions efficiently test cells, batteries, and power train components to optimize ...

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and security to flash storage solutions in the data center. The company, headquartered in Santa Clara, California, said the Bravera SC5 family of flash controllers are designed for bandwidth- and ...

Marvell Introduces First Family of PCIe Gen 5 Flash Memory Controllers
The goal of the partnership is to integrate Carbon Upcycling’s CO2-embedded concrete additive ... showing leadership by providing real solutions that fit with our objectives.

Member of Parliament Supports Western Canadian Low Carbon Concrete Innovation
About APOLLO Insurance Apollo Insurance Solutions Ltd. ("APOLLO Insurance ... Through traditional agents and embedded finance partnerships APOLLO is redefining the distribution of insurance.

APOLLO Insurance and LowestRates.ca Partner to Offer Access to Embedded Digital Insurance via an API
PLANO, Texas, July 1, 2021 /PRNewswire/ -- Cardo Systems has announced ... industry – www.cardosystems.com HARMAN Embedded Audio, a business unit of HARMAN International, designs and engineers Audio ...

Cardo Systems and HARMAN enter into a five year Sound by JBL collaboration
Along with our top Secure Hardware Silicon partners, Valid will be able to provide the perfect assets for the embedded system security ... provides tailored solutions that integrate emerging ...

An introduction to the engineering principles of embedded systems, with a focus

on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

Until the late 1980s, information processing was associated with large mainframe computers and huge tape drives. During the 1990s, this trend shifted toward information processing with personal computers, or PCs. The trend toward miniaturization continues and in the future the majority of information processing systems will be small mobile computers, many of which will be embedded into larger products and interfaced to the physical environment. Hence, these kinds of systems are called embedded systems. Embedded systems together with their physical environment are called cyber-physical systems. Examples include systems such as transportation and fabrication equipment. It is expected that the total market volume of embedded systems will be significantly larger than that of traditional information processing systems such as PCs and mainframes. Embedded systems share a number of common characteristics. For example, they must be dependable, efficient, meet real-time constraints and require customized user interfaces (instead of generic keyboard and mouse interfaces). Therefore, it makes sense to consider common principles of embedded system design. Embedded System Design starts with an introduction into the area and a survey of specification models and languages for embedded and cyber-physical systems. It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems, like real-time operating systems. The book also discusses evaluation and validation techniques for embedded systems. Furthermore, the book presents an overview of techniques for mapping applications to execution platforms. Due to the importance of resource efficiency, the book also contains a selected set of optimization techniques for embedded systems, including special compilation techniques. The book closes with a brief survey on testing. Embedded System Design can be used as a text book for courses on embedded systems and as a source which provides pointers to relevant material in the area for PhD students and teachers. It assumes a basic knowledge

of information processing hardware and software. Courseware related to this book is available at http://ls12-www.cs.tu-dortmund.de/~marwedel.

Evolutionary Algorithms for Embedded System Design describes how Evolutionary Algorithm (EA) concepts can be applied to circuit and system design - an area where time-to-market demands are critical. EAs create an interesting alternative to other approaches since they can be scaled with the problem size and can be easily run on parallel computer systems. This book presents several successful EA techniques and shows how they can be applied at different levels of the design process. Starting on a high-level abstraction, where software components are dominant, several optimization steps are demonstrated, including DSP code optimization and test generation. Throughout the book, EAs are tested on real-world applications and on large problem instances. For each application the main criteria for the successful application in the corresponding domain are discussed. In addition, contributions from leading international researchers provide the reader with a variety of perspectives, including a special focus on the combination of EAs with problem specific heuristics. Evolutionary Algorithms for Embedded System Design is an excellent reference for both practitioners working in the area of circuit and system design and for researchers in the field of evolutionary concepts.

Considered a standard industry resource, the Embedded Systems Handbook provided researchers and technicians with the authoritative information needed to launch a wealth of diverse applications, including those in automotive electronics, industrial automated systems, and building automation and control. Now a new resource is required to report on current developments and provide a technical reference for those looking to move the field forward yet again. Divided into two volumes to accommodate this growth, the Embedded Systems Handbook, Second Edition presents a comprehensive view on this area of computer engineering with a currently appropriate emphasis on developments in networking and applications. Those experts directly involved in the creation and evolution of the ideas and technologies presented offer tutorials, research surveys, and technology overviews that explore cutting-edge developments and deployments and identify potential trends. This first self-contained volume of the handbook, Embedded Systems Design and Verification, is divided into three sections. It begins with a brief introduction to embedded systems design and verification. It then provides a comprehensive overview of embedded processors and various aspects of system-on-chip and FPGA, as well as solutions to design challenges. The final section explores power-aware embedded computing, design issues specific to secure embedded systems, and web services for embedded devices. Those interested in taking their work with embedded systems to the network level should complete their study with the second volume: Network Embedded Systems.

Embedded systems have an increasing importance in our everyday lives. The growing complexity of embedded systems and the emerging trend to interconnections between them lead to new challenges. Intelligent solutions are necessary to overcome these challenges and to provide reliable and secure systems to the customer under a strict time and financial budget. Solutions on Embedded Systems documents results of several innovative approaches that

provide intelligent solutions in embedded systems. The objective is to present mature approaches, to provide detailed information on the implementation and to discuss the results obtained.

The IFIP TC-10 Working Conference on Distributed and Parallel Embedded Systems (DIPES 2004) brings together experts from industry and academia to discuss recent developments in this important and growing field in the splendid city of Toulouse, France. The ever decreasing price/performance ratio of microcontrollers makes it economically attractive to replace more and more conventional mechanical or electronic control systems within many products by embedded real-time computer systems. An embedded real-time computer system is always part of a well-specified larger system, which we call an intelligent product. Although most intelligent products start out as stand-alone units, many of them are required to interact with other systems at a later stage. At present, many industries are in the middle of this transition from stand-alone products to networked embedded systems. This transition requires reflection and architecting: The complexity of the evolving distributed artifact can only be controlled, if careful planning and principled design methods replace the - hoc engineering of the first version of many standalone embedded products.

Embedded systems are becoming one of the major driving forces in computer science. Furthermore, it is the impact of embedded information technology that dictates the pace in most engineering domains. Nearly all technical products above a certain level of complexity are not only controlled but increasingly even dominated by their embedded computer systems. Traditionally, such embedded control systems have been implemented in a monolithic, centralized way. Recently, distributed solutions are gaining increasing importance. In this approach, the control task is carried out by a number of controllers distributed over the entire system and connected by some interconnect network, like fieldbuses. Such a distributed embedded system may consist of a few controllers up to several hundred, as in today's top-range automobiles. Distribution and parallelism in embedded systems design increase the engineering challenges and require new development methods and tools. This book is the result of the International Workshop on Distributed and Parallel Embedded Systems (DIPES'98), organized by the International Federation for Information Processing (IFIP) Working Groups 10.3 (Concurrent Systems) and 10.5 (Design and Engineering of Electronic Systems). The workshop took place in October 1998 in Schloss Eringerfeld, near Paderborn, Germany, and the resulting book reflects the most recent points of view of experts from Brazil, Finland, France, Germany, Italy, Portugal, and the USA. The book is organized in six chapters: `Formalisms for Embedded System Design': IP-based system design and various approaches to multi-language formalisms. `Synthesis from Synchronous/Asynchronous Specification': Synthesis techniques based on Message Sequence Charts (MSC), StateCharts, and Predicate/Transition Nets. `Partitioning and Load-Balancing': Application in simulation models and target systems. `Verification and Validation': Formal techniques for precise verification and more pragmatic approaches to validation. `Design Environments' for distributed embedded systems and their impact on the industrial state of the art. `Object Oriented Approaches': Impact of OO-techniques on distributed embedded systems. £/LIST£ This volume will be essential reading for computer science researchers and application developers.