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This illuminating collection
offers a fresh look at the

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very latest advances in the field of embedded computer vision. Emerging areas covered by this comprehensive text/reference include the embedded realization of 3D vision technologies for a variety

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of applications, such as stereo cameras on mobile devices. Recent trends towards the development of small unmanned aerial vehicles (UAVs) with embedded image and video processing algorithms are

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also examined. Topics and features: discusses in detail three major success stories – the development of the optical mouse, vision for consumer robotics, and vision for automotive safety; reviews state-of-the-

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art research on embedded 3D vision, UAVs, automotive vision, mobile vision apps, and augmented reality; examines the potential of embedded computer vision in such cutting-edge areas as the Internet of Things, the

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mining of large data streams, and in computational sensing; describes historical successes, current implementations, and future challenges.

Embedded vision is the

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integration of "computer vision" into machines that use algorithms to decode meaning from observed images or video. It has a wide range of applications to machine learning, artificial intelligence, industrial,

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medical, driverless cars, drones, smart phones, aerospace, defense, agriculture, consumer, surveillance, robotics and security. This book is an introductory guide for anyone who is interested in

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designing machines that have vision-enabled, embedded products. It covers a large number of topics encountered in hardware architecture, software algorithms, applications, advancements in camera, processors, and

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sensors in the field of embedded vision. Features: Includes a wide range of applications to artificial intelligence, machine learning, industry, science, medicine, transportation, civil infrastructure, and

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security Covers a large number of topics encountered in hardware architecture, software algorithms, applications, advancements in processors and sensors. Based on the successful Modelling and Control of

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Robot Manipulators by Sciavicco and Siciliano (Springer, 2000), Robotics provides the basic know-how on the foundations of robotics: modelling, planning and control. It has been expanded to include

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coverage of mobile robots, visual control and motion planning. A variety of problems is raised throughout, and the proper tools to find engineering-oriented solutions are introduced and explained.

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The text includes coverage of fundamental topics like kinematics, and trajectory planning and related technological aspects including actuators and sensors. To impart practical skill, examples and case

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studies are carefully worked out and interwoven through the text, with frequent resort to simulation. In addition, end-of-chapter exercises are proposed, and the book is accompanied by an electronic solutions

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manual containing the MATLAB® code for computer problems; this is available free of charge to those adopting this volume as a textbook for courses. This innovative new collection opens a door into

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the rich history of animals in China. This title is also available as Open Access. Everyone wants safety on the road. Can advancements in sensing and decision-making technologies help drivers, passengers and vulnerable

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road users?Advanced driver-assistance system (ADAS) and autonomous vehicles (AV) are still works in progress that rely on constantly evolving technologies. This book, with contributions from leading thinkers of the

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automotive industry, marks and heralds the industry's progress, identify the remaining challenges, and examine with an unbiased eye what it will take to overcome them.

I-Byte Technology March 2021

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The Economics of Global
Turbulence

The Automotive Mirror-
Replacement Technology based
on ISO 16505

8th International
Conference, AVR 2021,
Virtual Event, September

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7–10, 2021, Proceedings
The Origin and Evolution of
Arm Processors in Our
Devices
Modelling, Planning and
Control
Computer Vision Metrics
In spite of all the

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assistance offered by electronic control systems, the latest generation of passenger car chassis still relies on conventional chassis elements. With a view towards driving dynamics, this book examines

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these conventional elements and their interaction with mechatronic systems. First, it describes the fundamentals and design of the chassis and goes on to examine driving dynamics with a particularly

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practical focus. This is followed by a detailed description and explanation of the modern components. A separate section is devoted to the axles and processes for axle development. With its revised illustrations

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and several updates in the text and list of references, this new edition already includes a number of improvements over the first edition.

This book presents a selection of papers

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representing current research on using field programmable gate arrays (FPGAs) for realising image processing algorithms. These papers are reprints of papers selected for a Special Issue of the Journal

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of Imaging on image processing using FPGAs. A diverse range of topics is covered, including parallel soft processors, memory management, image filters, segmentation, clustering, image analysis, and image

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compression. Applications include traffic sign recognition for autonomous driving, cell detection for histopathology, and video compression. Collectively, they represent the current state-of-the-art on image

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**processing using FPGAs.
Amadeus announces it has
acquired the airline network
planning software business
of Optym, a leader in
network optimization. The
two companies have been
partners for more than three**

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years, jointly delivering solutions to Southwest Airlines, easyJet, and LATAM Airlines. The Amadeus Sky Suite will be further integrated into the Amadeus Airline Platform, including software for network

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optimization and simulation, frequency and capacity planning, network planning and forecasting, and a flight scheduling development platform. As a result of this transaction, 90 employees will be

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dedicated to the Amadeus Sky Suite. These employees join the Airlines R&D unit, reporting to Christophe Bousquet, Senior Vice President, Airlines R&D; the Amadeus Sky Suite is part of Amadeus' Airlines Offer

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Suite of solutions. The acquisition is effective immediately, and the companies have begun integration and employee onboarding, continuing to serve customers with a focus on business as usual.

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Financial details are confidential. Optym will continue to operate as a separate entity focused on other areas of business. Learn how automotive Ethernet is revolutionizing in-car networking from the

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experts at the core of its development. Providing an in-depth account of automotive Ethernet, from its background and development, to its future prospects, this book is ideal for industry professionals and

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academics alike.

This book provides an in-depth overview of on chip instrumentation technologies and various approaches taken in adding instrumentation to System on Chip (ASIC, ASSP, FPGA, etc.) design that are

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collectively becoming known as Design for Debug (DfD). On chip instruments are hardware based blocks that are added to a design for the specific purpose and improving the visibility of internal or embedded

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portions of the design (specific instruction flow in a processor, bus transaction in an on chip bus as examples) to improve the analysis or optimization capabilities for a SoC. DfD is the methodology and

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infrastructure that surrounds the instrumentation. Coverage includes specific design examples and discussion of implementations and DfD tradeoffs in a decision to design or select

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instrumentation or SoC that include instrumentation.

Although the focus will be on hardware implementations, software and tools will be discussed in some detail.

LTE for UMTS

Survey, Taxonomy, and

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Analysis

I-Bytes Technology

Living conditions and quality of life among Inuit, Saami and indigenous peoples of Chukotka and the Kola Peninsula

Healing With Hemp CBD Oil

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Photon-Counting Image Sensors

Practical Raspberry Pi

Explore a complex mechanical system where electronics and mechanical engineers

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work together as a cross-functional team. Using a working example, this book is a practical “how to” guide to designing a drone system. As system design becomes more and

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more complicated,
systematic, and
organized, there is an
increasingly large gap
in how system design
happens in the industry
versus what is taught in

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academia. While the system design basics and fundamentals mostly remain the same, the process, flow, considerations, and tools applied in

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industry are far different than that in academia. Designing Drone Systems takes you through the entire flow from system conception to design to production,

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bridging the knowledge gap between academia and the industry as you build your own drone systems. What You'll LearnGain a high level understanding of drone

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systems Design a drone systems and elaborating the various aspects and considerations of design Review the principles of the industrial system design process/flow, and

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the guidelines for drone systems Look at the challenges, limitations, best practices, and patterns of system design Who This Book Is For Primarily for

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beginning or aspiring system design experts, recent graduates, and system design engineers. Teachers, trainers, and system design mentors can also benefit from

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this content.

This study, based on a lifelong involvement with New Guinea, compares the culture of the Kamoro (18,000 people) with that of

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their eastern neighbours, the Asmat (40,000), both living on the south coast of West Papua, Indonesia. The comparison, showing substantial differences

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as well as striking similarities, contributes to a deeper understanding of both cultures.

This book features original papers from

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International Conference on Expert Clouds and Applications (ICOECA 2021), organized by GITAM School of Technology, Bangalore, India during February

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18-19, 2021. It covers new research insights on artificial intelligence, big data, cloud computing, sustainability, and knowledge-based expert

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systems. The book discusses innovative research from all aspects including theoretical, practical, and experimental domains that pertain to the

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expert systems,
sustainable clouds, and
artificial intelligence
technologies.

The first of two volumes
in the Electronic Design
Automation for

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Integrated Circuits Handbook, Second Edition, Electronic Design Automation for IC System Design, Verification, and Testing thoroughly

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examines system-level design, microarchitectural design, logic verification, and testing. Chapters contributed by leading

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experts authoritatively discuss processor modeling and design tools, using performance metrics to select microprocessor cores for integrated circuit (IC)

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designs, design and verification languages, digital simulation, hardware acceleration and emulation, and much more. New to This Edition: Major updates

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appearing in the initial phases of the design flow, where the level of abstraction keeps rising to support more functionality with lower non-recurring

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engineering (NRE) costs
Significant revisions
reflected in the final
phases of the design
flow, where the
complexity due to
smaller and smaller

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geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting-edge applications and approaches realized in

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the decade since publication of the previous edition—these are illustrated by new chapters on high-level synthesis, system-on-chip (SoC) block-based

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design, and back-annotating system-level models Offering improved depth and modernity, Electronic Design Automation for IC System Design, Verification,

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and Testing provides a valuable, state-of-the-art reference for electronic design automation (EDA) students, researchers, and professionals.

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I-Bytes TechnologyEGBG
Services LLC
Automotive Ethernet
Advances in Embedded
Computer Vision
SLiCA: Arctic living
conditions

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Williams Hematology,
10th Edition

Gender, Ritual and
Social Formation in West
Papua

Chassis Handbook

Principles, Methodology,

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Advances, Applications,
and Practice

The Department of Defense recently highlighted intelligence, surveillance, and reconnaissance (ISR) capabilities as a top priority for

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U.S. warfighters. Contributions provided by ISR assets in the operational theaters in Iraq and Afghanistan have been widely documented in press reporting. While the United States continues to increase

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investments in ISR capabilities, other nations not friendly to the United States will continue to seek countermeasures to U.S. capabilities. The Technology Warning Division of the Defense Intelligence Agency's (DIA)

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Defense Warning Office (DWO) has the critical responsibility, in collaborations with other components of the intelligence community (IC), for providing U.S. policymakers insight into technological developments that

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may impact future U.S. warfighting capabilities. To this end, the IC requested that the National Research Council (NRC) investigate and report on key visible and infrared detector technologies, with potential

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military utility, that are likely to be developed in the next 10-15 years. This study is the eighth in a series sponsored by the DWO and executed under the auspices of the NRC TIGER (Technology Insight-Gauge, Evaluate, and

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Review) Standing Committee.
The landmark text that has guided generations of hematologists and related practitioners?updated with the latest research findings and improved format and

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presentation Long revered for its comprehensiveness and extraordinary depth of detail, Williams Hematology provides essential coverage of the origins, pathophysiological mechanisms, and management of benign and

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malignant disorders of blood and marrow cells and coagulation proteins. The text contains a wealth of basic science and translational pathophysiology for optimal, lifelong learning. Experts in research and clinical

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hematology, the editors are known worldwide for their contributions to the field. This new edition contains everything that has made Williams Hematology the go-to resource for decades and has been

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updated with new chapters and critical new research into the molecular mechanisms responsible for hematological disorders and the impact on diagnosis and treatment. And the new format enables you to

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access each chapter via content modules covering key topics, with summaries, infographics, and cases?all linked to review questions for self-assessment. The full-color presentation integrates images of blood and

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tissue findings where they are cited in the text. NEW TO THIS EDITION: Updated and revised content reflecting the latest research and developments
Convenient format that streamlines the learning process

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and improves retention

Additional chapters added on:

Immune Checkpoint Inhibitors

Immune Cell Therapy: Chimeric

Antigen Receptor T Cell Therapy

Immune Cell Therapy Dendritic

Cell and Natural Killer Cell

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Therapy The processes of cell death and survival Application of Big Data and Deep Learning in Hematology Williams Hematology Cases with multiple-choice questions including detailed explanations—perfect

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preparation for the boards
Continuously updated online
content with comprehensive drug
therapy database and other
resources

The purpose of this book is to
illustrate the magnificence of the

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fabless semiconductor ecosystem, and to give credit where credit is due. We trace the history of the semiconductor industry from both a technical and business perspective. We argue that the development of

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the fabless business model was a key enabler of the growth in semiconductors since the mid-1980s. Because business models, as much as the technology, are what keep us thrilled with new gadgets year

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after year, we focus on the evolution of the electronics business. We also invited key players in the industry to contribute chapters. These “In Their Own Words” chapters allow the heavyweights of the

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industry to tell their corporate history for themselves, focusing on the industry developments (both in technology and business models) that made them successful, and how they in turn drive the further evolution of the

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semiconductor industry.

ITShades.com has been founded with singular aim of engaging and enabling the best and brightest of businesses, professionals and students with opportunities, learnings, best

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practices, collaboration and innovation from IT industry. This document brings together a set of latest data points and publicly available information relevant for Technology Industry. We are very excited to share this content

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and believe that readers will benefit from this periodic publication immensely.

The health benefits of marijuana are now getting a good deal of attention. Yet hemp—a close relative of marijuana—is actually a

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far richer source of CBD, the compound responsible for effectively treating dozens of disorders, and contains very little THC, the substance responsible for marijuana's highs. Sounds like growing and using hemp is a

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win-win situation, right? Not quite, because the US government, which holds the patent for CBD specifically because of its healing abilities, has unfairly classified hemp as a Class 1 drug, thereby banning

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people in the United States from growing it commercially. If you find this confusing, you're not alone. That's why best-selling author Earl Mindell has written *Healing with Hemp CBD Oil*, a straightforward book that will first

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help you understand what's going on with hemp oil in the United States, and then teach you how to use this valuable natural remedy to improve your health. The book begins by looking at the important role the

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hemp plant has played in both Eastern and Western societies as a source for paper, textiles, rope, and so much more. This is followed by a discussion of the science behind CBD's medical benefits. The author then

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provides a consumer's guide to buying hemp products—especially its oil and its CBD supplements—and offers an eye-opening examination of hemp's legal status in the United States, from the 1900s to now. Finally,

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based on up-to-date studies, Dr. Mindell presents an A-to-Z guide to the many uses of hemp oil and CBD for various health conditions, from arthritis to depression to heart disease. Although the United States has

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given CBD-rich hemp a problematic legal status, fortunately, this product—sourced from other countries—is readily available. Healing with Hemp CBD Oil guides you in using this all-natural substance as a safe,

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side effect-free remedy.

The Transformation of the
Semiconductor Industry
Design and Debug for Systems
on Chip

Raspberry Pi User Guide
A Simple Guide to Using

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Powerful and Proven Health
Benefits of CBD

Robotics

The Advanced Capitalist
Economies from Long Boom to
Long Downturn, 1945-2005

On-Chip Instrumentation

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In this book, a global team of experts from academia, research institutes and industry presents their vision on how new nano-chip architectures will enable the performance and energy efficiency needed

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for AI-driven advancements in autonomous mobility, healthcare, and man-machine cooperation. Recent reviews of the status quo, as presented in CHIPS 2020 (Springer), have prompted the need for an

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urgent reassessment of opportunities in nanoelectronic information technology. As such, this book explores the foundations of a new era in nanoelectronics that will drive progress in intelligent chip

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systems for energy-efficient information technology, on-chip deep learning for data analytics, and quantum computing. Given its scope, this book provides a timely compendium that hopes to

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inspire and shape the future of nanoelectronics in the decades to come.

This book constitutes the refereed proceedings of the 8th International Conference on Augmented Reality, Virtual

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Reality, and Computer Graphics, AVR 2021, held in Italy, in September 2021. Due to COVID-19 pandemic the conference was held virtually. The 38 full and 14 short papers were carefully reviewed and

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selected from 69 submissions. The papers discuss key issues, approaches, ideas, open problems, innovative applications and trends in virtual reality, augmented reality, mixed reality,

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applications in cultural heritage, in medicine, in education, and in industry.

It is a pleasure to present you the proceedings of the 12th International Symposium on Automotive Lighting, which

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takes place in Darmstadt on September 25-27, 2017. This conference is the document of a series of successful conferences since the first PAL-conference in 1995 and shows the latest innovative potentials of the

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automotive industry in the application of lighting technologies.

This handbook offers a comprehensive overview of Camera Monitor Systems (CMS), ranging from the ISO

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16505-based development aspects to practical realization concepts. It offers readers a wide-ranging discussion of the science and technology of CMS as well as the human-interface factors of such systems. In

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addition, it serves as a single reference source with contributions from leading international CMS professionals and academic researchers. In combination with the latest version of UN Regulation No.

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46, the normative framework of ISO 16505 permits CMS to replace mandatory rearview mirrors in series production vehicles. The handbook includes scientific and technical background information to

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further readers' understanding of both of these regulatory and normative texts. It is a key reference in the field of automotive CMS for system designers, members of standardization and regulation

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committees, engineers, students and researchers. Learn the Raspberry Pi 3 from the experts! Raspberry Pi User Guide, 4th Edition is the "unofficial official" guide to everything Raspberry Pi 3.

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Written by the Pi's creator and a leading Pi guru, this book goes straight to the source to bring you the ultimate Raspberry Pi 3 manual. This new fourth edition has been updated to cover the Raspberry

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Pi 3 board and software, with detailed discussion on its wide array of configurations, languages, and applications. You'll learn how to take full advantage of the mighty Pi's full capabilities, and then expand

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those capabilities even more with add-on technologies. You'll write productivity and multimedia programs, and learn flexible programming languages that allow you to shape your Raspberry Pi into

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whatever you want it to be. If you're ready to jump right in, this book gets you started with clear, step-by-step instruction from software installation to system customization. The Raspberry Pi's tremendous

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popularity has spawned an entire industry of add-ons, parts, hacks, ideas, and inventions. The movement is growing, and pushing the boundaries of possibility along with it—are you ready to be a

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part of it? This book is your ideal companion for claiming your piece of the Pi. Get all set up with software, and connect to other devices Understand Linux System Admin nomenclature and conventions

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Write your own programs using Python and Scratch Extend the Pi's capabilities with add-ons like Wi-Fi dongles, a touch screen, and more The credit-card sized Raspberry Pi has become a global phenomenon.

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Created by the Raspberry Pi Foundation to get kids interested in programming, this tiny computer kick-started a movement of tinkerers, thinkers, experimenters, and inventors. Where will your

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Raspberry Pi 3 take you? The Raspberry Pi User Guide, 3rd Edition is your ultimate roadmap to discovery.

*Progress and Limits of Visible and Infrared Sensor Arrays
Basic Information, Components*

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*and Systems for Active Safety
and Comfort*

*Handbook of Camera Monitor
Systems*

*A Guide with Best Practices for
Designing*

Electronic Design Automation

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*for IC System Design,
Verification, and Testing*

*Proceedings of ICDMAI 2021,
Volume 2*

The SLiCA anthology probes into the theoretical and methodological

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background of the SLiCA project, the research design, the ethical principles applied and introduces examples of the wealth of information available on the livelihoods and living conditions of the Inuit, Saami and the indigenous

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peoples of Chukotka and the Kola Peninsula, measured with quality of life criteria they themselves chose. Furthermore the anthology provides samples of analyses – including comparative and contextual studies – that can be accomplished using

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SLiCA data. Examples of living conditions and topics analysed are: "suicidal thoughts"; impacts of oil development on living conditions and quality of life; economic stratification; objective and subjective living conditions;

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education; gender based differences in productive activities; impacts of societal development on men's and women's perceptions of their contributions to their households; factors affecting migration, identity, ethnicity, and herding rights.

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This fundamental work explains in detail systems for active safety and driver assistance, considering both their structure and their function.

These include the well-known standard systems such as Anti-lock braking system (ABS), Electronic

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Stability Control (ESC) or Adaptive Cruise Control (ACC). But it includes also new systems for protecting collisions protection, for changing the lane, or for convenient parking. The book aims at giving a complete picture focusing on the entire

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system. First, it describes the components which are necessary for assistance systems, such as sensors, actuators, mechatronic subsystems, and control elements. Then, it explains key features for the user-friendly design of human-

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machine interfaces between driver and assistance system. Finally, important characteristic features of driver assistance systems for particular vehicles are presented: Systems for commercial vehicles and motorcycles.

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The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to

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major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-

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event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations

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researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from experimental design to data analysis and more * Recent advances, such as object-oriented simulation, on-line

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simulation, and parallel and distributed simulation * Applications across a full range of manufacturing and service industries * Guidelines for successful simulations and sound simulation project management * Simulation software

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and simulation industry vendors

This book is a printed edition of the Special Issue "Photon-Counting Image Sensors" that was published in Sensors

Written by experts actively involved in the 3GPP standards and product

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development, LTE for UMTS, Second Edition gives a complete and up-to-date overview of Long Term Evolution (LTE) in a systematic and clear manner. Building upon on the success of the first edition, LTE for UMTS, Second

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Edition has been revised to now contain improved coverage of the Release 8 LTE details, including field performance results, transport network, self optimized networks and also covering the enhancements done in 3GPP Release 9. This new

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edition also provides an outlook to Release 10, including the overview of Release 10 LTE-Advanced technology components which enable reaching data rates beyond 1 Gbps. Key updates for the second edition of LTE for UMTS are focused

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on the new topics from Release 9 & 10, and include: LTE-Advanced; Self optimized networks (SON); Transport network dimensioning; Measurement results.

12th International Symposium on Automotive Lightning – ISAL 2017 –

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Proceedings of the Conference
Fundamentals, Driving Dynamics,
Components, Mechatronics,
Perspectives
Embedded Vision
Embedded Firmware Solutions
High Performance Silicon Imaging:

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Fundamentals and Applications of
CMOS and CCD Sensors
NANO-CHIPS 2030
Handbook of Simulation
*Embedded Firmware
Solutions is the perfect
introduction and daily-use*

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field guide--for the thousands of firmware designers, hardware engineers, architects, managers, and developers--to Intel's new firmware direction

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(including Quark coverage), showing how to integrate Intel® Architecture designs into their plans. Featuring hands-on examples and exercises using Open

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Source codebases, like Coreboot and EFI Development Kit (tianocore) and Chromebook, this is the first book that combines a timely and thorough

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overview of firmware solutions for the rapidly evolving embedded ecosystem with in-depth coverage of requirements and optimization.

A commanding survey of the

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world economy from 1950 to the present, from the author of the acclaimed The Boom and the Bubble. Dr Donald Bailey starts with introductory material considering the problem of

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embedded image processing, and how some of the issues may be solved using parallel hardware solutions. Field programmable gate arrays (FPGAs) are introduced as

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a technology that provides flexible, fine-grained hardware that can readily exploit parallelism within many image processing algorithms. A brief review of FPGA programming

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languages provides the link between a software mindset normally associated with image processing algorithms, and the hardware mindset required for efficient

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utilization of a parallel hardware design. The design process for implementing an image processing algorithm on an FPGA is compared with that for a conventional

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software implementation, with the key differences highlighted. Particular attention is given to the techniques for mapping an algorithm onto an FPGA implementation,

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considering timing, memory bandwidth and resource constraints, and efficient hardware computational techniques. Extensive coverage is given of a range of low and

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intermediate level image processing operations, discussing efficient implementations and how these may vary according to the application. The techniques are illustrated

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with several example applications or case studies from projects or applications he has been involved with. Issues such as interfacing between the FPGA and peripheral

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devices are covered briefly, as is designing the system in such a way that it can be more readily debugged and tuned. Provides a bridge between algorithms and

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hardware Demonstrates how to avoid many of the potential pitfalls Offers practical recommendations and solutions Illustrates several real-world applications and case

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studies Allows those with software backgrounds to understand efficient hardware implementation Design for Embedded Image Processing on FPGAs is ideal for researchers and

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engineers in the vision or image processing industry, who are looking at smart sensors, machine vision, and robotic vision, as well as FPGA developers and application engineers.

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The book can also be used by graduate students studying imaging systems, computer engineering, digital design, circuit design, or computer science. It can also be

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used as supplementary text for courses in advanced digital design, algorithm and hardware implementation, and digital signal processing and applications.

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Companion website for the book: www.wiley.com/go/bailey/fpga

Computer Vision Metrics provides an extensive survey and analysis of over 100 current and

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historical feature description and machine vision methods, with a detailed taxonomy for local, regional and global features. This book provides necessary

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background to develop intuition about why interest point detectors and feature descriptors actually work, how they are designed, with observations about tuning

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the methods for achieving robustness and invariance targets for specific applications. The survey is broader than it is deep, with over 540 references provided to dig

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deeper. The taxonomy includes search methods, spectra components, descriptor representation, shape, distance functions, accuracy, efficiency, robustness and invariance

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attributes, and more. Rather than providing 'how-to' source code examples and shortcuts, this book provides a counterpoint discussion to the many fine opencv community

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source code resources available for hands-on practitioners.

This book presents the latest findings in the areas of data management and smart computing,

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machine learning, big data management, artificial intelligence, and data analytics, along with advances in network technologies. The book is a collection of peer-

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reviewed research papers presented at Fifth International Conference on Data Management, Analytics and Innovation (ICDMAI 2021), held during January 15-17, 2021, in a

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virtual mode. It addresses state-of-the-art topics and discusses challenges and solutions for future development. Gathering original, unpublished contributions by

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scientists from around the globe, the book is mainly intended for a professional audience of researchers and practitioners in academia and industry.

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Volume 17

Industrial System

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Animals Through Chinese

History

Aspencore Guide to SENSORS

in AUTOMOTIVE

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Comparing Kamoro and Asmat
Augmented Reality, Virtual
Reality, and Computer
Graphics*

*On-Chip AI for an
Efficient Data-Driven*

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World

Practical Raspberry Pi takes you quickly through the hardware and software basics of the Raspberry Pi. Author Brendan Horan then gets you started on a series of fun and practical projects, including a simple temperature sensor, a

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media center, a real-time clock, and even a security monitoring device, all of which require minimal programming experience. Along with these projects, you'll learn all about the Raspberry Pi hardware, including how it can be so powerful and still so small and

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inexpensive, why it's so suitable as a video player, and how you can customize it for different tasks, including running different operating systems on it, including Android and RISC OS. The Raspberry Pi is an inexpensive but relatively powerful little computer. It was

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designed to get kids interested in computing and programming, but it's also a great platform for hardware hackery. The projects in this book will get you deep into the hardware to show you what the Raspberry Pi can really do. Many African Americans living along the

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banks of North Florida's Suwannee River still refuse to eat catfish caught from its murky waters, knowing that these bottom feeders had at some point dined on the decaying corpses of their lynched relatives. This book chronicles how bolita, from its birth in segregationist

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Suwannee County in the 1930s to its death in the 1950s, spilled Blood on the Suwannee. Bolita's first casualty was the surreptitious murder of a prominent white bolita queen in the 1930s that inadvertently led to the expansion of bolita and bootleg liquor in the

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county. The second casualty- the untimely drowning death of fifteen-year-old Willie James Howard at the hands of Klansmen for the crime of sending a Christmas card to a white girl- is the little-known legacy of an African American Everyman in the segregationist

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South. The third casualty is the nationally publicized 1952 murder of Dr. C. LeRoy Adams, a white physician and state senator-elect, by Ruby McCollum, the black wife of the county's bolita king. Combines in one volume the basics of evolving radio access technologies and

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their implementation in mobile phones
Reviews the evolution of radio access technologies (RAT) used in mobile phones and then focuses on the technologies needed to implement the LTE (Long term evolution) capability
Coverage includes the architectural

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aspects of the RF and digital baseband parts before dealing in more detail with some of the hardware implementation Unique coverage of design parameters and operation details for LTE-A phone transceiver Discusses design of multi-RAT Mobile with the consideration of

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cost and form factors Provides in one book a review of the evolution of radio access technologies and a good overview of LTE and its implementation in a handset Unveils the concepts and research updates of 5G technologies and the internal hardware and software of a

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5G phone

This book introduces the technological innovations of robotic vehicles. It presents the concepts required for self-driving cars on the road. Besides, readers can gain invaluable knowledge in the construction, programming, and control

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of the six-legged robot. The book also presents the controllers and aerodynamics of several different types of rotorcrafts. It includes the simulation and flight of the various kinds of rotor-propelled air vehicles under each of their different aerodynamics environment.

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The book is suitable for academia, educators, students, and researchers who are interested in autonomous vehicles, robotics, and rotor-propelled vehicles. This is the origin story of technology super heroes: the creators and founders of ARM, the company that is responsible

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for the processors found inside 95% of the world's mobile devices today. This is also the evolution story of how three companies - Apple, Samsung, and Qualcomm - put ARM technology in the hands of billions of people through smartphones, tablets, music players, and

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more. It was anything but a straight line from idea to success for ARM. The story starts with the triumph of BBC Micro engineers Steve Furber and Sophie Wilson, who make the audacious decision to design their own microprocessor - and it works the first

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time. The question becomes, how to sell it? Part I follows ARM as its founders launch their own company, select a new leader, a new strategy, and find themselves partnered with Apple, TI, Nokia, and other companies just as digital technology starts to unleash

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mobile devices. ARM grows rapidly, even as other semiconductor firms struggle in the dot com meltdown, and establishes itself as a standard for embedded RISC processors. Apple aficionados will find the opening of Part II of interest the moment Steve Jobs

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returns and changes the direction toward fulfilling consumer dreams. Samsung devotees will see how that firm evolved from its earliest days in consumer electronics and semiconductors through a philosophical shift to innovation. Qualcomm followers will learn much of

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their history as it plays out from satellite communications to development of a mobile phone standard and emergence as a leading fabless semiconductor company. If ARM could be summarized in one word, it would be "collaboration." Throughout this story, from Foreword to

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Epilogue, efforts to develop an ecosystem are highlighted. Familiar names such as Google, Intel, Mediatek, Microsoft, Motorola, TSMC, and others are interwoven throughout. The evolution of ARM's first 25 years as a company wraps up with a shift to its next

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strategy: the Internet of Things, the ultimate connector for people and devices. Research for this story is extensive, simplifying a complex mobile industry timeline and uncovering critical points where ARM and other companies made fateful and sometimes surprising

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decisions. Rare photos, summary diagrams and tables, and unique perspectives from insiders add insight to this important telling of technology history.

Seeing Photons

Making Cars See and Think Ahead

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Proceedings of ICOECA 2021

An Introduction

Blood on the Suwannee

Expert Clouds and Applications

Development Best Practices for the

Internet of Things

"High Performance Silicon

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Imaging" covers the fundamentals of silicon image sensors, with a focus on existing performance issues and potential solutions. The book considers several

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applications for the technology as well. Silicon imaging is a fast growing area of the semiconductor industry. Its use in cell phone cameras is already well

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established, and emerging applications include web, security, automotive, and digital cinema cameras.

Part one begins with a review of the fundamental principles of photosensing

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and the operational principles of silicon image sensors. It then focuses in on charged coupled device (CCD) image sensors and complementary metal oxide semiconductor

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(CMOS) image sensors. The performance issues considered include image quality, sensitivity, data transfer rate, system level integration, rate of power consumption, and the

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potential for 3D imaging. Part two then discusses how CMOS technology can be used in a range of areas, including in mobile devices, image sensors for automotive applications,

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sensors for several forms of scientific imaging, and sensors for medical applications. "High Performance Silicon Imaging" is an excellent resource for both

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academics and engineers working in the optics, photonics, semiconductor, and electronics industries. Covers the fundamentals of silicon-based image sensors and

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technical advances, focusing on performance issues Looks at image sensors in applications such as mobile phones, scientific imaging, TV broadcasting, automotive,

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and biomedical applications

Mobile Unleashed

Design for Embedded Image

Processing on FPGAs

Fabless

Mobile Terminal Receiver

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Design

LTE and LTE-Advanced
Evolution to LTE-Advanced
Data Management, Analytics
and Innovation