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~~Week In Review: Auto, Security, Pervasive Computing~~

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~~Auto Clock Generation in a SoC~~

~~How sticky is a design win, and how long will it ... right performance - but they also have to get the SoC around that right, " says Ni. " In addition, to get into markets such as robotics or automotive ...~~

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~~1) shows where the analog microphone signal is converted to digital, decimated in the audio codec, and transmitted to the Bluetooth system-on-chip (SoC ... PSAP algorithm design and tuning.~~

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The CV5S and CV52S SoC families are expected to be available for sampling in October. Ambarella was founded in 2005. It has evolved over the years from a video processor chip design firm to a ...

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equip and empower women in the automotive and autotech space to become leaders and change-makers in the industry. DesignCon is the world's premier conference for chip, board, and systems design ...

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A little while ago, there was a fear-mongering fad about theoretical ' trolley problems ' (choosing actions in a car accident scenario ... structural racism or sexism pervading society is more a ...

## ~~3. Cross-cutting and novel statements~~

Oppo has gone with a pretty basic design for the Oppo A54 5G ... brighter than the gloomy Redmi Note 10 5G, though Oppo ' s auto brightness system continues to be a little too aggressive for ...

## ~~Oppo A54 5G Review~~

The freshly minted Poco X3 Pro, likewise, is the first phone with Qualcomm Snapdragon 860 SoC. More than the chip ... If the Poco X3 was a race car, the Poco X3 Pro with its more powerful hardware ...

## ~~Poco X3 Pro review: More power to you~~

Today, he works at the bleeding edge of an industry working to design imitation minds ... the racial bias of its algorithms and development teams; the anxieties over intellectual freedom and ...

## ~~Meet the scientist teaching AI to police human speech~~

He has been chair of IEEE Computer Society and IEEE Education Society, India Council. His research is in Reinforcement Learning, Deep Learning, Data Science, and Algorithms. He is passionate about ...

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" [The study is] saying for every dollar value created—and this is created to the miner, it ' s like my personal value from mining this to society ... an electric car, your home, a business ...

## ~~Renewable energy can ' t cure Bitcoin ' s environmental woes~~

I mean, Thomas Piketty did a paper recently that talked about the Brahmin Left and the Merchant Right, where the traditional picture is the wealthy people in society tend to support the right ...

An emerging trend in the automobile industry is its convergence with information technology (IT). Indeed, it has been estimated that almost 90% of new automobile technologies involve

IT in some form. Smart driving technologies that improve safety as well as green fuel technologies are quite representative of the convergence between IT and automobiles. The smart driving technologies include three key elements: sensing of driving environments, detection of objects and potential hazards and the generation of driving control signals including warning signals. Although radar-based systems are primarily used for sensing the driving environments, the camera has gained importance in advanced driver assistance systems (ADAS). This book covers system-on-a-chip (SoC) designs—including both algorithms and hardware—related with image sensing and object detection by using the camera for smart driving systems. It introduces a variety of algorithms such as lens correction, super resolution, image enhancement and object detections from the images captured by low-cost vehicle camera. This is followed by implementation issues such as SoC architecture, hardware accelerator, software development environment and reliability techniques for automobile vision systems. This book is aimed for the new and practicing engineers in automotive and chip-design industries to provide some overall guidelines for the development of automotive vision systems. It will also help graduate students understand and get started for the research work in this field.

This book constitutes the refereed proceedings of the 12th Latin American Robotics Symposium and Third Brazilian Symposium on Robotics, LARS 2015 / SBR 2015, held in Uberlândia, Brazil, in October/November 2015. The 17 revised full papers presented were carefully reviewed and selected from 80 submissions. The selected papers present a complete and solid reference of the state-of-the-art of intelligent robotics and automation research, covering the following areas: autonomous mobile robots, tele-operated and telepresence robots, human-robot interaction, trajectory control for mobile robots, autonomous vehicles, service-oriented robotic systems, semantic mapping, environment mapping, visual odometry, applications of RGB-D sensors, humanoid and biped robots, Robocup soccer robots, robot control, path planning, multiple vehicles and teams of robots. /div

Better Understand the Relationship between Powertrain System Design and Its Control Integration While powertrain system design and its control integration are traditionally divided into two different functional groups, a growing trend introduces the integration of more electronics (sensors, actuators, and controls) into the powertrain system.

Acts as single source reference providing readers with an overview of how computer vision can contribute to the different applications in the field of road transportation This book presents a survey of computer vision techniques related to three key broad problems in the roadway transportation domain: safety, efficiency, and law enforcement. The individual chapters present significant applications within those problem domains, each presented in a tutorial manner, describing the motivation for and benefits of the application, and a description of the state of the art. Key features: Surveys the applications of computer vision techniques to road transportation system for the purposes of improving safety and efficiency and to assist law enforcement. Offers a timely discussion as computer vision is reaching a point of being useful in the field of transportation systems. Available as an enhanced eBook with video demonstrations to further explain the concepts discussed in the book, as well as links to publically available software and data sets for testing and algorithm development. The book will benefit the many researchers, engineers and practitioners of computer vision, digital imaging, automotive and civil engineering working in intelligent transportation systems. Given the breadth of topics covered, the text will present the reader with new and yet unconceived possibilities for application within their communities.

This book contains selected papers from the 7th International Conference on Information Science and Applications (ICISA 2016) and provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology. It explores how information science is core to most current research, industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing, Networks and Information Systems, Multimedia and Visualization, Middleware and Operating Systems, Security and Privacy, Data Mining and Artificial Intelligence, Software Engineering, and Web Technology. The contributions describe the most recent developments in information technology and ideas, applications and problems related to technology convergence, illustrated through case studies, and reviews converging existing security techniques. Through this volume, readers will gain an understanding of the current state-of-the-art information strategies and technologies of convergence security. The intended readers are researchers in academia, industry and other research institutes focusing on information science and technology.

This book is a printed edition of the Special Issue "Imaging: Sensors and Technologies" that was published in Sensors

This book contains extended and revised versions of the best papers presented at the 20th IFIP WG 10.5/IEEE International Conference on Very Large Scale Integration, VLSI-SoC 2012, held in Santa Cruz, CA, USA, in October 2012. The 12 papers included in the book were carefully reviewed and selected from the 33 full papers presented at the conference. The papers cover a wide range of topics in VLSI technology and advanced research. They address the current trend toward increasing chip integration and technology process advancements bringing about stimulating new challenges both at the physical and system-design levels, as well as in the test of these systems.

Course book introducing advanced control systems for vehicles, including advanced automotive concepts and the next generation of vehicles for ITS.

These two volumes constitute the Proceedings of the 7th International Workshop on Soft Computing Applications (SOFA 2016), held on 24–26 August 2016 in Arad, Romania. This edition was organized by Aurel Vlaicu University of Arad, Romania, University of Belgrade, Serbia, in conjunction with the Institute of Computer Science, Iasi Branch of the Romanian Academy, IEEE Romanian Section, Romanian Society of Control Engineering and Technical Informatics (SRAIT) - Arad Section, General Association of Engineers in Romania - Arad Section, and BTM Resources Arad. The soft computing concept was introduced by Lotfi Zadeh in 1991 and serves to highlight the emergence of computing methodologies in which the accent is on exploiting the tolerance for imprecision and uncertainty to achieve tractability, robustness and lower costs. Soft computing facilitates the combined use of fuzzy logic, neurocomputing, evolutionary computing and probabilistic computing, leading to the concept of hybrid intelligent systems. The rapid emergence of new tools and applications calls for a

synergy of scientific and technological disciplines in order to reveal the great potential of soft computing in all domains. The conference papers included in these proceedings, published post-conference, were grouped into the following areas of research: • Methods and Applications in Electrical Engineering • Knowledge-Based Technologies for Web Applications, Cloud Computing, Security Algorithms and Computer Networks • Biomedical Applications • Image, Text and Signal Processing • Machine Learning and Applications • &nb sp; Business Process Management • Fuzzy Applications, Theory and Fuzzy Control • Computational Intelligence in Education • Soft Computing & Fuzzy Logic i n Biometrics (SCFLB) • Soft Computing Algorithms Applied in Economy, Industry and Communication Technology • Modelling and Applications in Textiles The book helps to disseminate advances in selected active research directions in the field of soft computing, along with current issues and applications of related topics. As such, it provides valuable information for professors, researchers and graduate students in the area of soft computing techniques and applications.

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