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Written and edited
by a global team of
experts in the field,
this groundbreaking
new volume
presents the

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Concepts and fundamentals of using artificial intelligence in renewable energy and climate change, while also covering the practical applications that can be utilized across multiple disciplines and industries, for the engineer, the

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Student, and other professionals and scientists.

Renewable energy and climate change are two of the most important and difficult issues facing the world today. The state of the art in these areas is changing rapidly, with new techniques and

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theories coming online seemingly every day. It is important for scientists, engineers, and other professionals working in these areas to stay abreast of developments, advances, and practical applications, and

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this volume is an outstanding reference and tool for this purpose. The paradigm in renewable energy and climate change shifts constantly. In today ' s international and competitive environment, lean and green practices are important

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determinants to increase performance. Corresponding production philosophies and techniques help companies diminish lead times and costs of manufacturing, improve delivery on time and quality, and at the same

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time become more ecological by reducing material use and waste, and by recycling and reusing. Those lean and green activities enhance productivity, lower carbon footprint and improve consumer satisfaction, which in reverse makes firms competitive

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and sustainable.

This practical, new groundbreaking volume: Features coverage on a wide range of topics such as classical and nature-inspired optimization and optimal control, hybrid and stochastic systems
Is ideally designed for engineers,

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academicians,
researchers,
computer and
information
technologists,
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makers, business leaders and students Is useful as a practical tool for practitioners in the fields of sustainable and renewable energy sustainability Includes wide coverage of how artificial intelligence can be used to impact the struggle

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Against global
warming and
climate change

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The future is going

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to be better, and science and technology are the driving forces that will help make it better.

Shrinking pixel sizes along with improvements in image sensors, optics, and electronics have elevated DSCs to

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Sensors of

performance that match, and have the potential to surpass, that of silver-halide film cameras. Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing

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technology and takes an all-inclusive look at the field, from the history of DSCs to future possibilities. The first chapter outlines the evolution of DSCs, their basic structure, and their major application classes. The next few chapters

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discuss high-quality optics that meet the requirements of better image sensors, the basic functions and performance parameters of image sensors, and detailed discussions of both CCD and CMOS image sensors. The book then discusses how

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color theory affects
the uses of DSCs,
presents basic
image processing
and camera control
algorithms and
examples of
advanced image
processing
algorithms,
explores the
architecture and
required
performance of

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Signal processing engines, and explains how to evaluate image quality for each component described. The book closes with a look at future technologies and the challenges that must be overcome to realize them.

With contributions

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Sensor from many active DSC experts, Image Sensors and Image Processing for Digital Still Cameras offers unparalleled real-world coverage and opens wide the door for future innovation.

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The future national security environment will present the naval forces with operational challenges that can best be met through the development of military capabilities that effectively leverage rapidly advancing technologies in

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many areas. The panel envisions a world where the naval forces will perform missions in the future similar to those they have historically undertaken. These missions will continue to include sea control, deterrence, power projection, sea lift,

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and so on. The missions will be accomplished through the use of platforms (ships, submarines, aircraft, and spacecraft), weapons (guns, missiles, bombs, torpedoes, and information), manpower, materiel, tactics,

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Sensor processes (acquisition, logistics, and so on.). Accordingly, the Panel on Technology attempted to identify those technologies that will be of greatest importance to the future operations of the naval forces and to project trends in

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their development out to the year 2035. The primary objective of the panel was to determine which are the most critical technologies for the Department of the Navy to pursue to ensure U.S. dominance in future naval operations and to determine

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the future trends in these technologies and their impact on Navy and Marine Corps superiority. A vision of future naval operations ensued from this effort. These technologies form the base from which products, platforms, weapons, and capabilities are

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built. By combining multiple technologies with their future attributes, new systems and subsystems can be envisioned.

Technology for the United States Navy and Marine Corps, 2000-2035

Becoming a 21st-Century

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Force: Volume 2:
Technology
identifies those
technologies that
are unique to the
naval forces and
whose development
the Department of
the Navy clearly
must fund, as well
as commercially
dominated
technologies that
the panel believes

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Senior the Navy and Marine Corps must learn to adapt as quickly as possible to naval applications. Since the development of many of the critical technologies is becoming global in nature, some consideration is given to foreign capabilities and

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trends as a way to assess potential adversaries' capabilities. Finally, the panel assessed the current state of the science and technology (S&T) establishment and processes within the Department of the Navy and makes recommendations that would improve

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the efficiency and effectiveness of this vital area. The panel's findings and recommendations are presented in this report.

This two-volume set LNCS 12239-12240 constitutes the refereed proceedings of the

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6th International
Conference on
Artificial
Intelligence and
Security, ICAIS
2020, which was
held in Hohhot,
China, in July 2020.
The conference
was formerly called
“ International
Conference on
Cloud Computing
and Security ” with

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the acronym ICCCS.

The total of 142 full papers presented in this two-volume proceedings was carefully reviewed and selected from 1064 submissions.

The papers were organized in topical sections as follows:

Part I: Artificial intelligence and internet of things.

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Part II: Internet of things, information security, big data and cloud computing, and information processing.

This book encapsulates over three decades of the author ' s work

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on comparative functional respiratory morphology. It provides insights into the mechanism(s) by which respiratory means and processes originated and advanced to their modern states. Pertinent cross-

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disciplinary details and facts have been integrated and reexamined in order to arrive at more robust answers to questions regarding the basis of the functional designs of gas exchangers. The utilization of oxygen for energy production is an ancient process, the

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development and progression of which were underpinned by dynamic events in the biological, physical, and chemical worlds. Many books that have broached the subject of comparative functional respiratory biology

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have only described the form and function of the ' end-product, ' the gas exchanger; they have scarcely delved into the factors and the conditions that motivated and steered the development from primeval to modern respiratory means

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and processes. This book addresses and answers broad questions concerning the critical synthesis of multidisciplinary data, and clarifies previously cryptic aspects of comparative respiratory biology.

This book is a

Page 41/49

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printed edition of
the Special Issue
"Sensors and
Actuators in Smart
Cities" that was
published in JSAN

High Performance
Silicon Imaging
covers the
fundamentals of
silicon image
sensors, with a
focus on existing

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performance issues and potential solutions. The book considers several 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 established, and emerging

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Applications include web, security, automotive, and digital cinema cameras. Part one begins with a review of the fundamental principles of photosensing and the operational principles of silicon image sensors. It then focuses in on

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Sensor coupled device (CCD) image sensors and complementary metal oxide semiconductor (CMOS) image sensors. The performance issues considered include image quality, sensitivity, data transfer rate, system level

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integration, rate of power consumption, and the 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, sensors for several

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Sensors of scientific imaging, and sensors for medical applications. High Performance Silicon Imaging is an excellent resource for both academics and engineers working in the optics, photonics, semiconductor, and electronics industries. Covers

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the fundamentals of silicon-based image sensors and technical advances, focusing on performance issues Looks at image sensors in applications such as mobile phones, scientific imaging, TV broadcasting, automotive, and biomedical

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