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## **Utm X Universal Thermal Monocular Utm Home Bae Systems**

This book gathers the proceedings of the 6th International Conference and Exhibition on Sustainable Energy and Advanced Materials (ICE-SEAM 2019), held on 16–17 October 2019 in Surakarta, Indonesia. It focuses on two relatively broad areas – advanced materials and sustainable energy – and a diverse range of subtopics: Advanced Materials and Related Technologies: Liquid Crystals, Semiconductors, Superconductors, Optics, Lasers, Sensors, Mesoporous Materials, Nanomaterials, Smart Ferrous

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Materials, Amorphous Materials, Crystalline Materials, Biomaterials, Metamaterials, Composites, Polymers, Design, Analysis, Development, Manufacturing, Processing and Testing for Advanced Materials. Sustainable Energy and Related Technologies: Energy Management, Storage, Conservation, Industrial Energy Efficiency, Energy-Efficient Buildings, Energy-Efficient Traffic Systems, Energy Distribution, Energy Modeling, Hybrid and Integrated Energy Systems, Fossil Energy, Nuclear Energy, Bioenergy, Biogas, Biomass Geothermal Power, Non-Fossil Energies, Wind Energy, Hydropower, Solar Photovoltaic, Fuel Cells, Electrification, and

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### Electrical Power Systems and Controls.

With urbanization as a global phenomenon, there is a need for data and information about these terrains. Urban remote sensing techniques provide critical physical input and intelligence for preparing base maps, formulating planning proposals, and monitoring implementations. Likewise these methodologies help with understanding the biophysical properties, patterns, and process of urban landscapes, as well as mapping and monitoring urban land cover and spatial extent. Advanced sensor technologies and image processing methodologies such as deep learning, data mining, etc., facilitate the wide applications of remote

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sensing technology in urban areas. This book presents advanced image processing methods and algorithms focused on three very important roots of urban remote sensing: 3D urban modelling using different remotely sensed data, urban orthophotomap generation, and urban feature extraction, which are also today's real challenges in high resolution remote sensing. Data generated by remote sensing, with its repetitive and synoptic viewing and multispectral capabilities, constitutes a powerful tool for mapping and monitoring emerging changes in the city's urban core, as well as in peripheral areas. Features: Provides advances in emerging methods and algorithms in

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image processing and technology Uses algorithms and methodologies for handling high-resolution imagery from a ground sampling distance (GSD) less than 1.0 meter Focuses on 3D urban modelling, orthorectification methodologies, and urban feature extraction algorithms from high-resolution remotely sensed imagery Demonstrates how to apply up-to-date techniques to the problems identified and how to analyze research results Presents methods and algorithms for monitoring, analyzing, and modeling urban growth, urban planning, and socio-economic developments In this book, readers are provided with valuable research studies and applications-

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oriented chapters in areas such as urban trees, soil moisture mapping, city transportation, urban remote sensing big data, etc.

Ocular Disease—a newly introduced companion volume to the classic Adler's Physiology of the Eye—correlates basic science and clinical management to describe the how and why of eye disease processes and the related best management protocols. Editors Leonard A. Levin and Daniel M. Albert—two of the world's leading ophthalmic clinician-scientists—have recruited as contributors the most expert and experienced authorities available in each of the major areas of ophthalmic disease specific to

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ophthalmology: retina, cornea, cataract, glaucoma, uveitis, and more. The concise chapter structure features liberal use of color—with 330 full-color line artworks, call-out boxes, summaries, and schematics for easy navigation and understanding. This comprehensive resource provides you with a better and more practical understanding of the science behind eye disease and its relation to treatment. Covers all areas of disease in ophthalmology including retina, cornea, cataract, glaucoma, and uveitis for the comprehensive information you need for managing clinical cases. Presents a unique and pragmatic blend of necessary basic science and clinical application to serve as a clinical

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guide to understanding the cause and rational management of ocular disease. Features 330 full-color line artworks that translate difficult concepts and discussions into concise schematics for improved understanding and comprehension. Provides the expert advice of internationally recognized editors with over 40 years of experience together with a group of world class contributors in basic science and clinical ophthalmology. The manual describes the general strategy for the U.S. Marines but it is beneficial for not only every Marine to read but concepts on leadership can be gathered to lead a business to a family. If you want to see what make Marines



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so effective this book is a good place to start.

Proceedings of the 6th International Conference on Robot  
Intelligence Technology and Applications

New Developments and Environmental Applications of  
Drones

Materials of the workshop held May 15–June 9, 1989 in  
Hampton, Virginia Volume 2

Cruise Ship Astronomy and Astrophotography

Emerging Research in Electronics, Computer Science and  
Technology

Remote Sensing and GIS Integration: Theories, Methods,  
and Applications

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Ocular Disease: Mechanisms and Management E-Book  
**PES College of Engineering is organizing an International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT-12) in Mandya and merging the event with Golden Jubilee of the Institute. The Proceedings of the Conference presents high quality, peer reviewed articles from the field of Electronics, Computer Science and Technology. The book is a compilation of research papers from the cutting-edge technologies and it is targeted towards the scientific community actively involved in research activities.**

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**The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 - 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and**

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**microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.**

**The ability to predict and control viscous flow phenomena is becoming increasingly important in modern industrial application. The Instability and Transition Workshop at Langley was extremely important in helping the scientists community to access the state of knowledge in the area of transition from laminar to turbulent flow, to identify promising future areas of research and to build future interactions between researchers worldwide working in the areas of theoretical, experimental and**

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**computational fluid and aero dynamics. The set of two volume contains panel discussions and research contribution with the following objectives: (1) expose the academic community to current technologically important issues of instability and transitions in shear flows over the entire speed range, (2) acquaint the academic community with the unique combination of theoretical, computational and experimental capabilities at LaRC and foster interaction with these facilities. (3) review current state-of-the-art and propose future directions for instability and transition research, (4) accelerate progress in elucidating**

**basic understanding of transition phenomena and in transferring this knowledge into improved design methodologies through improved transition modeling, and (5) establish mechanism for continued interaction.**

**This state-of-the-art survey offers a renewed and refreshing focus on the progress in evolutionary computation, in neural networks, and in fuzzy systems. The book presents the expertise and experiences of leading researchers spanning a diverse spectrum of computational intelligence in these areas. The result is a balanced contribution to the research area of computational intelligence that should serve the**

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**community not only as a survey and a reference, but also as an inspiration for the future advancement of the state of the art of the field. The 13 selected chapters originate from lectures and presentations given at the IEEE World Congress on Computational Intelligence, WCCI 2012, held in Brisbane, Australia, in June 2012.**

**Advances in Visual Informatics  
Computational Science and Technology  
16th International Conference, MobiWIS 2019,  
Istanbul, Turkey, August 26-28, 2019,  
Proceedings  
Environmental Geoinformatics**

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**Shock Wave-Boundary-Layer Interactions  
Advances in Computational Intelligence  
UAV or Drones for Remote Sensing Applications**

This book constitutes the refereed proceedings of the 4th International Symposium on Ubiquitous Networking, UNet 2018, held in Hammamet, Morocco, in May 2018. The 35 full papers presented together with 5 short papers in this volume were carefully reviewed and selected from 87 submissions. The focus of UNet is on technical challenges and solutions related to such a widespread adoption of networking technologies, including broadband multimedia, machine-to-machine applications, Internet of things, security and privacy, data engineering, sensor networks and RFID technologies. Since the publication of the first edition in 2004, advances in



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mobile devices, positioning sensors, WiFi fingerprinting, and wireless communications, among others, have paved the way for developing new and advanced location-based services (LBSs). This second edition provides up-to-date information on LBSs, including WiFi fingerprinting, mobile computing, geospatial clouds, geospatial data mining, location privacy, and location-based social networking. It also includes new chapters on application areas such as LBSs for public health, indoor navigation, and advertising. In addition, the chapter on remote sensing has been revised to address advancements. This book constitutes the proceedings of the 12th Mexican Conference on Pattern Recognition, MCPR 2020, which was due to be held in Morelia, Mexico, in June 2020. The conference was held virtually due to the COVID-19 pandemic.

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The 31 papers presented in this volume were carefully reviewed and selected from 67 submissions. They were organized in the following topical sections: pattern recognition techniques; image processing and analysis; computer vision; industrial and medical applications of pattern recognition; natural language processing and recognition; artificial intelligence techniques and recognition.

This book covers the technology of inspection of metals, the main emphasis on final part inspection at the manufacturing facility or on receipt at the user's facility. The unique feature of this book is that it provides an intermediate level introduction to the different methods used to inspect metals and finished parts and a more detailed review of the specific inspection methods for important metal product forms.

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The book is divided into two parts: Part I gives the basics of the most important methods used for inspection and testing, while Part II covers the types of methods used to inspect different classes of metallic parts. The advantages and limitations of each method are discussed, including when other methods may be warranted. In particular, the chapters on specific product forms (e.g., castings) compare the different inspection methods and why they are used.

RITA 2018

Warfighting

Innovations in Electrical and Electronic Engineering  
4th International Symposium, UNet 2018, Hammamet,  
Tunisia, May 2 - 5, 2018, Revised Selected Papers

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## Integration of GIS and Remote Sensing

### Urban High-Resolution Remote Sensing

***Recently, growing interest in the use of remote sensing imagery has appeared to provide synoptic maps of water quality parameters in coastal and inner water ecosystems;, monitoring of complex land ecosystems for biodiversity conservation; precision agriculture for the management of soils, crops, and pests; urban planning; disaster monitoring, etc. However, for these maps to achieve their full potential, it is important to engage in periodic monitoring***

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*and analysis of multi-temporal changes. In this context, very high resolution (VHR) satellite-based optical, infrared, and radar imaging instruments provide reliable information to implement spatially-based conservation actions. Moreover, they enable observations of parameters of our environment at greater broader spatial and finer temporal scales than those allowed through field observation alone. In this sense, recent very high resolution satellite technologies and image processing algorithms present the opportunity to develop quantitative techniques that have the potential to improve*

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*upon traditional techniques in terms of cost, mapping fidelity, and objectivity. Typical applications include multi-temporal classification, recognition and tracking of specific patterns, multisensor data fusion, analysis of land/marine ecosystem processes and environment monitoring, etc. This book aims to collect new developments, methodologies, and applications of very high resolution satellite data for remote sensing. The works selected provide to the research community the most recent advances on all aspects of VHR satellite remote sensing. Introduces the latest developments and*

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*technologies in the area of nonlinear aeroelasticity Nonlinear aeroelasticity has become an increasingly popular research area in recent years. There have been many driving forces behind this development, increasingly flexible structures, nonlinear control laws, materials with nonlinear characteristics, etc. Introduction to Nonlinear Aeroelasticity covers the theoretical basics in nonlinear aeroelasticity and applies the theory to practical problems. As nonlinear aeroelasticity is a combined topic, necessitating expertise from different areas, the book introduces methodologies from a*

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*variety of disciplines such as nonlinear dynamics, bifurcation analysis, unsteady aerodynamics, non-smooth systems and others. The emphasis throughout is on the practical application of the theories and methods, so as to enable the reader to apply their newly acquired knowledge. Key features: Covers the major topics in nonlinear aeroelasticity, from the galloping of cables to supersonic panel flutter. Discusses nonlinear dynamics, bifurcation analysis, numerical continuation, unsteady aerodynamics and non-smooth systems. Considers the practical application of the theories and methods. Covers nonlinear*



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*dynamics, bifurcation analysis and numerical methods. Accompanied by a website hosting Matlab code. Introduction to Nonlinear Aeroelasticity is a comprehensive reference for researchers and workers in industry and is also a useful introduction to the subject for graduate and undergraduate students across engineering disciplines.*

*1. PURPOSE. This Handbook presents the approved methods and procedures for the conduct of Coast Guard boat operations. Major topics within this handbook are boat crew duties and responsibilities, towing, person in the water recovery, rescue assistance and*

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*fire fighting, and air operations. 2. DIRECTIVES AFFECTED. The Boat Crew Seamanship Manual, COMDTINST M16114.5C, is canceled. 3. DISCUSSION. This Handbook provides guidance on how to engage in safe and effective boat operations. 4. MAJOR CHANGES. First issue. The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems (ICICC 2017). The conference was held during 2–4 August 2017, Pune, India and organized communally by Dr. Vishwanath Karad MIT World Peace University, Pune, India at MIT College*

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*of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio, and video data processing.*

*Pattern Recognition*

*A Guide to Their Study, Collection, and Preservation*

*Proceedings of CVR 2021*

*Programming Robots with ROS*

*Reptile Biodiversity*

*A Practical Introduction to the Robot*

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## ***Operating System***

### ***Theory, Methods, and Applications***

*This volume presents the conference proceedings from FinDrones2020. The book highlights recent developments in drone technology by experts, academicians, and entrepreneurs for applications in agriculture, forestry, and other industries. Emphasis is placed on contextualizing the conference presentations and content to Finland and the unique challenges typical to this region. The work will be of interest to academicians and professionals involved in remote sensing applications of unmanned*

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*aerial vehicles, as well as enthusiasts of drone technological developments.*

*A text that makes the mathematical underpinnings of robot motion accessible and relates low-level details of implementation to high-level algorithmic concepts. Robot motion planning has become a major focus of robotics. Research findings can be applied not only to robotics but to planning routes on circuit boards, directing digital actors in computer graphics, robot-assisted surgery and medicine, and in novel areas such as drug design and protein folding. This text reflects the great advances that have taken*

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*place in the last ten years, including sensor-based planning, probabilistic planning, localization and mapping, and motion planning for dynamic and nonholonomic systems. Its presentation makes the mathematical underpinnings of robot motion accessible to students of computer science and engineering, relating low-level implementation details to high-level algorithmic concepts.*

*This book constitutes the refereed proceedings of the Third International Conference on Advances in Visual Informatics, IVIC 2013, held in Selangor, Malaysia, in November 2013. The four keynotes and 69*

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*papers presented were carefully reviewed and selected from various submissions. The papers focus on four tracks: computer visions and engineering; computer graphics and simulation; virtual and augmented reality; and visualization and social computing.*

*This book constitutes the thoroughly refereed post-conference proceedings of the first International Symposium on Intelligent Informatics (ISI'12) held in Chennai, India during August 4-5, 2012. The 54 revised papers presented were carefully reviewed and selected from 165 initial submissions. The papers are organized in topical sections on*

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*data mining, clustering and intelligent information systems, multi agent systems, pattern recognition, signal and image processing and, computer networks and distributed systems. The book is directed to the researchers and scientists engaged in various fields of intelligent informatics.*

*Mortar Gunnery*

*McDp 1*

*Proceedings of the 6th International Conference and Exhibition on Sustainable Energy and Advanced Materials*

*Introduction to Nonlinear Aeroelasticity  
Proceedings of International Conference,*



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*ICERECT 2012*

*Expert Consult - Online and Print*

*Volume 2*

Want to develop novel robot applications, but don't know how to write a mapping or object-recognition system? You're not alone, but you're certainly not without help. By combining real-world examples with valuable knowledge from the Robot Operating System (ROS) community, this practical book provides a set of motivating recipes for solving specific robotics use cases. Ideal for enthusiasts, from students in robotics clubs to professional

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robotics scientists and engineers, each recipe describes a complete solution using ROS open source libraries and tools. You'll learn how to complete tasks described in the recipes, as well as how to configure and recombine components for other tasks. If you're familiar with Python, you're ready to go. Learn fundamentals, including key ROS concepts, tools, and patterns Program robots that perform an increasingly complex set of behaviors, using the powerful packages in ROS See how to easily add perception and navigation abilities to your robots Integrate your own sensors,

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actuators, software libraries, and even a whole robot into the ROS ecosystem Learn tips and tricks for using ROS tools and community resources, debugging robot behavior, and using C++ in ROS Maximize a geographical information tool by incorporating it with up-to-date remotely sensed data GIS is predominantly a data-handling technology, while remote sensing is a data retrieval and analysis technology. This book addresses the need to combine remotely sensed data with cartographic, socioeconomic, and environmental data and GIS functionalities.

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Remote Sensing and GIS Integration begins with theoretical discussions, followed by a series of application areas in urban and environmental studies that employ the integration of remote sensing and GIS. Each application area is examined through analysis of state-of-the-art methods and detailed presentations of one or more case studies.

There is no doubt that today, perhaps more than ever before, humanity faces a myriad of complex and demanding challenges. These include natural resource depletion and environmental

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degradation, food and water insecurity, energy shortages, diminishing biodiversity, increasing losses from natural disasters, and climate change with its associated potentially devastating consequences, such as rising sea levels. These human-induced and natural impacts on the environment need to be well understood in order to develop informed policies, decisions, and remedial measures to mitigate current and future negative impacts. To achieve this, continuous monitoring and management of the environment to acquire data that can be soundly and rigorously

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analyzed to provide information about its current state and changing patterns, and thereby allow predictions of possible future impacts, are essential. Developing pragmatic and sustainable solutions to address these and many other similar challenges requires the use of geodata and the application of geoinformatics. This book presents the concepts and applications of geoinformatics, a multidisciplinary field that has at its core different technologies that support the acquisition, analysis and visualization of geodata for environmental monitoring and management. We depart from the

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4D to the 5D data paradigm, which defines geodata accurately, consistently, rapidly and completely, in order to be useful without any restrictions in space, time or scale to represent a truly global dimension of the digital Earth. The book also features the state-of-the-art discussion of Web-GIS. The concepts and applications of geoinformatics presented in this book will be of benefit to decision-makers across a wide range of fields, including those at environmental agencies, in the emergency services, public health and epidemiology, crime mapping, environmental

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management agencies, tourist industry, market analysis and e-commerce, or mineral exploration, among many others. The title and subtitle of this textbook convey a distinct message. Monitoring -the passive part in the subtitle - refers to observation and data acquisition, whereas management - the active component - stands for operation and performance. The topic is our environment, which is intimately related to geoinformatics. The overall message is: all the mentioned elements do interact and must not be separated. Hans-Peter Bahr, Prof. Dr.-Ing. Dr.h.c.,



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Karlsruhe Institute of Technology (KIT), Germany. From recent developments in digital image processing to the next generation of satellite systems, this book provides a comprehensive introduction to the field of remote sensing and image interpretation. This book is discipline neutral, so readers in any field of study can gain a clear understanding of these systems and their virtually unlimited applications. \* The authors underscore close interactions among the related areas of remote sensing, GIS, GPS, digital image processing, and environmental modeling. \*

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Appendices include material on sources of remote sensing data and information, remote sensing periodicals, online glossaries, and online tutorials.

Fundamentals of Flight

Sensor Performance Analysis

Volume 1

Algorithms and Modeling

ICE-SEAM 2019, 16–17 October 2019, Surakarta, Indonesia

12th Mexican Conference, MCPR 2020, Morelia, Mexico, June 24–27, 2020, Proceedings

IEEE World Congress on Computational

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Intelligence, WCCI 2012, Brisbane, Australia, June 10-15, 2012. Plenary/Invited Lectures

***This manual provides guidance for MOS 11C soldiers and their trainers on the employment of the 60-mm (M224 and M19) mortars, 81-mm (M252 and M29A1) mortars, 4.2-inch (M30) mortar, and 120-mm (M120) mortars. It discusses the practical applications of ballistics and a system combining the principals, techniques, and procedures essential to the delivery of timely and accurate mortar fire. (See FM 23-90 for information on mechanical training, crew drills, and the characteristics,***

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***components, and technical data of each mortar.) This book consists of a collection of the high-quality research articles in the field of computer vision and robotics which are presented in the International Conference on Computer Vision and Robotics (CVR 2021), organized by BBD University Lucknow, India, during 7–8 August 2021. The book discusses applications of computer vision and robotics in the fields like medical science, defence, and smart city planning. The book presents recent works from researchers, academicians, industry, and policy makers.***

***"Authoritative and comprehensive--provides an up-***

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***to-date description of the tool box of methods for inventorying and monitoring the diverse spectrum of reptiles. All biodiversity scientists will want to have it during project planning and as study progresses. A must for field biologists, conservation planners, and biodiversity managers."--Jay M. Savage, San Diego State University "Kudos to the editors and contributors to this book. From the perspective of a non-ecologist such as myself, who only occasionally needs to intensively sample a particular site or habitat, the quality and clarity of this book has been well worth the wait."--Jack W. Sites, Jr. This collection provides researchers and scientists***

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***with advanced analyses and materials design techniques in Biomaterials and presents mechanical studies of biological structures. In 16 contributions well known experts present their research on Stress and Strain Analysis, Material Properties, Fluid and Gas mechanics and they show related problems.***

***Computer Vision and Robotics***

***The Mollusks***

***Very High Resolution (VHR) Satellite Imagery***

***Remote Sensing and Image Interpretation***

***Ubiquitous Networking***

***Instability and Transition***

***7th ICCST 2020, Pattaya, Thailand, 29–30 August,***

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## **2020**

This book constitutes the refereed proceedings of the 16th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2019, held in Istanbul, Turkey, in August 2019. The 23 full papers presented together with 3 short papers were carefully reviewed and selected from 74 submissions. The papers of the MobiWIS 2019 deal with areas such as: mobile apps and services; web and mobile applications; security and privacy; wireless networks and cloud computing; intelligent mobile applications; and mobile web and practical applications.

This book includes a selection of articles from The 2019 World Conference on Information Systems and Technologies (WorldCIST'19), held from April 16 to 19, at La Toja, Spain. WorldCIST is a global forum for researchers and practitioners to

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present and discuss recent results and innovations, current trends, professional experiences and challenges in modern information systems and technologies research, together with their technological development and applications. The book covers a number of topics, including A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; and N) Technologies for



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Biomedical Applications.

This book is a printed edition of the Special Issue "UAV or Drone for Remote Sensing Applications" that was published in Sensors. In an age of unprecedented proliferation of data from disparate sources the urgency is to create efficient methodologies that optimise data combinations and at the same time solve increasingly complex application problems. Integration of GIS and Remote Sensing explores the tremendous potential that lies along the interface between GIS and remote sensing for activating interoperable databases and instigating information interchange. The book concentrates on the rigorous and meticulous aspects of analytical data matching and thematic compatibility - the true roots of all branches of GIS/remote sensing applications. However closer harmonization is tempered by numerous technical and institutional

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issues, including scale incompatibility, measurement disparities, and the inescapable notion that data from GIS and remote sensing essentially represent diametrically opposing conceptual views of reality. The first part of the book defines and characterises GIS and remote sensing and presents the reader with an awareness of many scale, taxonomical and analytical problems when attempting integration. The second part of the book moves on to demonstrate the benefits and costs of integration across a number of human environmental applications. This book is an invaluable reference for students and professionals dealing not only with GIS and remote sensing, but also computer science, civil engineering, environmental science and urban planning within the academic, governmental and commercial/business sectors.

Intelligent Computing and Information and Communication

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New Knowledge in Information Systems and Technologies  
IPB

Intelligence Preparation of the Battlefield

Proceedings of the International Symposium on Intelligent  
Informatics ISI'12 Held at August 4-5 2012, Chennai, India

Intelligent Informatics

Proceedings of FinDrones 2020

*Mollusks have been important to humans since our earliest days. Initially, when humans were primarily interested in what they could eat or use, mollusks were important as food, ornaments, and materials for tools. Over the centuries, as human knowledge branched out and individuals started to study the world around them, mollusks were important subjects for learning how things worked. In this volume, the editors and contributors have brought*

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*together a broad range of topics within the field of malacology. It is our expectation that these topics will be of interest and use to amateur and professional malacologists.*

*This book gathers the Proceedings of the 6th International Conference on Robot Intelligence Technology and Applications (RITA 2018). Reflecting the conference's main theme, "Robotics and Machine Intelligence: Building Blocks for Industry 4.0," it features relevant and current research investigations into various aspects of these building blocks. The areas covered include: Instrumentation and Control, Automation, Autonomous Systems, Biomechatronics and Rehabilitation Engineering, Intelligent Systems, Machine Learning, Robotics, Sensors and Actuators, and Machine Vision, as well as Signal and Image Processing. A valuable asset, the book offers researchers and practitioners a*

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*timely overview of the latest advances in robot intelligence technology and its applications.*

*This book gathers the proceedings of the Seventh International Conference on Computational Science and Technology 2020 (ICCST 2020), held in Pattaya, Thailand, on 29–30 August 2020. The respective contributions offer practitioners and researchers a range of new computational techniques and solutions, identify emerging issues, and outline future research directions, while also showing them how to apply the latest large-scale, high-performance computational methods.*

*Enrich your next sea vacation with this fun how-to guide to observing and doing astrophotography on water. Collecting together the author's five decades of astrophotography and teaching experience, this book shares all the practical information*

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*you will need to start on your own astronomy adventure. Part I is full of practical advice on what to pack, the best ways to enjoy the night sky from your cruise ship observatory, specific astronomical objects and events to look out for, and myriad other useful tips. Part II gives you a crash course on astrophotography at sea, teaching you the nitty-gritty details of taking pictures of the night sky. Proof that it can be done is provided by the many amazing color astrophotographs taken by the author while following the steps laid out in this book.*

*Theory, Algorithms, and Implementations*

*Mobile Web and Intelligent Information Systems*

*Proceedings of ICEEE 2020*

*Third International Visual Informatics Conference, IVIC 2013,  
Selangor, Malaysia, November 13-15, 2013, Proceedings*

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*Analysis and Design of Biological Materials and Structures  
Boat Crew Handbook - Boat Operations (BCH16114.1 -  
December 2017)*

*Advanced Location-Based Technologies and Services  
Proceedings of the 6th International Conference and  
Exhibition on Sustainable Energy and Advanced  
Materials ICE-SEAM 2019, 16–17 October 2019,  
Surakarta, Indonesia Springer Nature*

*Shock wave-boundary-layer interaction (SBLI) is a  
fundamental phenomenon in gas dynamics that is  
observed in many practical situations, ranging from  
transonic aircraft wings to hypersonic vehicles and  
engines. SBLIs have the potential to pose serious*

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*problems in a flowfield; hence they often prove to be a critical - or even design limiting - issue for many aerospace applications. This is the first book devoted solely to a comprehensive, state-of-the-art explanation of this phenomenon. It includes a description of the basic fluid mechanics of SBLIs plus contributions from leading international experts who share their insight into their physics and the impact they have in practical flow situations. This book is for practitioners and graduate students in aerodynamics who wish to familiarize themselves with all aspects of SBLI flows. It is a valuable resource for specialists because it compiles experimental, computational and theoretical*



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*knowledge in one place.*

*Understanding the Basics*

*Principles of Robot Motion*

*Standard Methods for Inventory and Monitoring*

*Proceedings of 2nd International Conference, ICICC  
2017*

*Inspection of Metals*

*Monitoring and Management*