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TARGET VITEEE 2019 helps in TESTING & REVISING all important concepts necessary to crack VITEEE. Target VITEEE consists of Previous 13 Years papers, 2018 - 2006 and 10 Mock tests designed as per the latest VITEEE pattern, along with detailed solutions. The previous year papers will help you in guiding about the pattern and level of questions being asked in VITEEE, whereas the Mock Tests will give you sufficient practice for the test. This book covers the entire syllabus of VIT exam. Throughout the world there is

evidence of mounting interest in marine resources and new maritime industries to create jobs, economic growth and to help in the provision of energy and food security. Expanding populations, insecurity of traditional sources of supply and the effects of climate change add urgency to a perceived need to address and overcome the serious challenges of working in the maritime environment. Four promising areas of activity for 'Blue Growth' have been identified at European Union policy level including Aquaculture; Renewable Energy (offshore wind,

wave and tide); Seabed Mining; and Blue Biotechnology. Work has started to raise the technological and investment readiness levels (TRLs and IRLs) of these prospective industries drawing on the experience of established maritime industries such as Offshore Oil and Gas; Shipping; Fisheries and Tourism. An accord has to be struck between policy makers and regulators on the one hand, anxious to direct research and business incentives in effective and efficient directions, and developers, investors and businesses on the other, anxious to reduce the risks of such potentially

profitable but innovative investments. The EU H2020 MARIBE (Marine Investment for the Blue Economy) funded project was designed to identify the key technical and non-technical challenges facing maritime industries and to place them into the social and economic context of the coastal and ocean economy. MARIBE went on to examine with companies, real projects for the combination of marine industry sectors into multi-use platforms (MUPs). The purpose of this book is to publish the detailed analysis of each prospective and established maritime business

sector. Sector experts working to a common template explain what these industries are, how they work, their prospects to create wealth and employment, and where they currently stand in terms of innovation, trends and their lifecycle. The book goes on to describe progress with the changing regulatory and planning regimes in the European Sea Basins including the Caribbean where there are significant European interests. The book includes: • Experienced chapter authors from a truly multidisciplinary team of sector specialisms • First extensive study to compare and

contrast traditional Blue Economy with Blue Growth• Complementary to EU and National policies for multi-use of maritime space Gain the knowledge and skills you need to succeed in the clinical lab! Textbook of Diagnostic Microbiology, 7th Edition uses a reader-friendly "building-block" approach to help you learn the essentials of diagnostic microbiology. Featuring full-color drawings and photos, this text helps you learn to develop the critical thinking and problem-solving skills necessary to the accurate diagnosis of infectious diseases

and the identification of infectious agents. Written by noted educators Connie R. Mahon and Donald C. Lehman, this edition adds new content on SARS-CoV-2 and COVID-19, along with the latest information on prevention, treatment modalities, and CDC guidelines. Building-block approach encourages you to use previously learned information in mastering new material. Full-color photographs and photomicrographs make it easier to understand and apply diagnostic microbiology concepts. Case studies describe clinical and laboratory findings,

offering opportunities to correlate observations with possible etiologic agents and to build critical thinking and problem-solving skills. Hands-on procedures in the appendices describe techniques used in the lab setting. Issues to Consider boxes list important points to think about while reading the chapter. Case Checks in each chapter highlight specific points in the text and show how they connect to case studies. Bolded key terms with abbreviations are listed at the beginning of each chapter, showing the most important and relevant terms in each chapter. Learning Objectives

at the beginning of each chapter supply you with a measurable learning outcome to achieve by completing the material. Points to Remember sections at the end of each chapter provide a bulleted list of key concepts. Learning Assessment Questions at the conclusion of each chapter help you to think critically and to evaluate how well you have mastered the material. Agents of Bioterror and Forensic Microbiology chapter provides the most current information about these important topics. Lab manual on the Evolve website reinforces concepts with real-life scenarios and

review questions. Glossary at the end of the book supplies you with a quick reference for looking up definitions of key terms. NEW! Information about SARS-CoV-2 and COVID-19 is added to this edition. NEW! Updated content is included throughout the book, and several chapters are reorganized and refocused. NEW! Enterobacteriaceae chapter is updated. "Detailed recounting of the first government-sponsored geological survey of the Wyoming and adjacent territories in 1868. The results of Hayden's survey provided the earliest descriptive stratigraphic-structural profile

across the Rocky Mountains and the initial discovery of dinosaur tracks in western North America"-- The study of plant cell physiology is currently experiencing a profound transformation. Novel techniques allow dynamic in vivo imaging with subcellular resolution, covering a rapidly growing range of plant cell physiology. Several basic biological questions that have been inaccessible by the traditional combination of biochemical, physiological and cell biological approaches now see major progress. Instead of grinding up tissues, destroying their organisation, or

describing cell- and tissue structure, without a measure for its function, novel imaging approaches can provide the critical link between localisation, function and dynamics. Thanks to a fast growing collection of available fluorescent protein variants and sensors, along with innovative new microscopy technologies and quantitative analysis tools, a wide range of plant biology can now be studied in vivo, including cell morphology & migration, protein localization, topology & movement, protein-protein interaction, organelle dynamics, as well as ion, ROS

& redox dynamics. Within the cell, genetic targeting of fluorescent protein probes to different organelles and subcellular locations has started to reveal the stringently compartmentalized nature of cell physiology and its sophisticated spatiotemporal regulation in response to environmental stimuli. Most importantly, such cellular processes can be monitored in their natural 3D context, even in complex tissues and organs - a condition not easily met in studies on mammalian cells. Recent new insights into plant cell physiology by functional imaging have been largely

driven by technological developments, such as the design of novel sensors, innovative microscopy & imaging techniques and the quantitative analysis of complex image data. Rapid further advances are expected which will require close interdisciplinary interaction of plant biologists with chemists, physicists, mathematicians and computer scientists. High-throughput approaches will become increasingly important, to fill genomic data with 'life' on the scale of cell physiology. If the vast body of information generated in the -omics era is to generate actual

mechanistic understanding of how the live plant cell works, functional imaging has enormous potential to adopt the role of a versatile standard tool across plant biology and crop breeding. We welcome original research papers, methodological papers, reviews and mini reviews, with particular attention to contributions in which novel imaging techniques enhance our understanding of plant cell physiology and permits to answer questions that cannot be easily addressed with other techniques. • Best Selling Book in English Edition for NDA GK Paper Exam with Previous

Year Questions. • Increase your chances of selection by 16X. • NDA GK Paper Topic wise Book comes with well-structured Content & Chapter wise Practice Tests for your self evaluation • Clear exam with good grades using thoroughly Researched Content by experts. 2013 International Conference on Electrical, Control and Automation Engineering(ECAE2013) aims to provide a forum for accessing to the most up-to-date and authoritative knowledge from both Electrical, Control and Automation Engineering. ECAE2013 features unique mixed topics of Electrical

Engineering, Automation, Control Engineering and so on. The goal of this conference is to bring researchers, engineers, and students to the areas of Electrical, Control and Automation Engineering to share experiences and original research contributions on those topics. Researchers and practitioners are invited to submit their contributions to ECAE2013 Proceedings of the 2013 International Conference on Electrical and Information Technologies for Rail Transportation (EITRT2013) collects the latest research in this field, including a

wealth of state-of-the-art research theories and applications in intelligent computing, information processing, communication technology, automatic control, etc. The objective of the proceedings is to provide a major interdisciplinary forum for researchers, engineers, academics and industrial professionals to present the most innovative research on and developments in the field of rail transportation electrical and information technologies. Contributing authors from academia, industry and the government

also offer inside views of new, interdisciplinary solutions. Limin Jia is a professor at Beijing Jiaotong University and Chief Scientist at the State Key Lab of Rail Traffic Control and Safety. Many people have great ideas. Without the necessary skills and means most never get to realize them. If they could cooperate with competent firms and entrepreneurs together both could achieve much and this is increasingly happening. Mechanisms are being established making a division of labour between inventors and implementers a reality. This is changing the nature of innovation

from an internal R&D, or purely entrepreneurial attempt, to a more cooperative innovation. An Idea Economy emerges, where anyone has the possibility to profit from their ideas, and everyone will benefit from more and better innovation. This book presents us the emergence and structure of the Idea Economy by extending the seminal concepts of Entrepreneurial Society and Open Innovation. Part I describes the big picture on how innovation is evolving, where we are today, and what an Idea Economy will look like. Part II points the way forward, discussing in detail on how cooperation in the

innovation process works, and why this is only recently becoming possible. This book provides annual data on the structure, finances, and performance of education systems in the OECD's 34 member countries, as well as a number of partner countries. Fracking - hydraulic fracturing of porous rock to enhance the extraction of fossil fuels - was first attempted in the mid-20th century, but has only recently been adopted as a viable source of hydrocarbons. This volume in the Issues series examines the technology, and its potential environmental implications. Education at a

Glance: OECD Indicators is the authoritative source for accurate and relevant information on the state of education around the world. It provides data on the structure, finances, and performance of education systems in the OECD's 34 member countries, as well as a number of ... The understanding of biological complexity has been greatly facilitated by cross-disciplinary, holistic approaches that allow insights into the function and regulation of biological processes that cannot be captured by dissecting them into their individual components. In addition, the

development of novel tools has dramatically increased our ability to interrogate information at the nucleic acid, protein and metabolite level. The integration and interpretation of disparate data sets, however, still remain a major challenge in systems biology. Roots provide an excellent model for studying physiological, developmental, and metabolic processes. The availability of genetic resources, along with sequenced genomes has allowed important discoveries in root biochemistry, development and function. Roots are

transparent, allowing optical investigation of gene activity in individual cells and experimental manipulation. In addition, the predictable fate of cells emerging from the root meristem and the continuous development of roots throughout the life of the plant, which permits simultaneous observation of different developmental stages, provide ideal premises for the analysis of growth and differentiation. Moreover, a genetically fixed cellular organization allows for studying the utilization of positional information and other non-cell-

autonomous phenomena, which are of utmost importance in plant development. Although their ontogeny is largely invariant under standardized experimental conditions, roots possess an extraordinary capacity to respond to a plethora of environmental signals, resulting in distinct phenotypic readouts. This high phenotypic plasticity allows research into acclimative and adaptive strategies, the understanding of which is crucial for germplasm enhancement and crop improvement. With the aim of providing a current snapshot on the function and development of

roots at the systems level, this Research Topic collated original research articles, methods articles, reviews, mini reviews and perspective, opinion and hypotheses articles that communicate breakthroughs in root biology, as well as recent advances in research technologies and data analysis. This book contains a selection of refereed papers presented at the "International Conference on Operations Research (OR 2013)" which took place at Erasmus University Rotterdam September 3-6, 2013. The conference was jointly organized by the German and the

Dutch OR Society. More than 800 scientists and students from over 50 countries attended OR 2013 and presented more than 600 papers in parallel topical streams, as well as special award sessions. The theme of the conference and its proceedings is "Impact on People, Business and Society". A critical look at the challenges facing international policy cooperation in the new postcrisis environment. The global financial crisis of 2007-09 highlighted the economic interdependencies between all major countries, raising the issues of international cooperation. Managing

Complexity: Economic Policy Cooperation after the Crisis looks at how, following the global financial crisis, countries have changed the way they cooperate with each other on matters of economic policy. In this volume, the result of a joint research project of Chatham House and the International Monetary Fund, researchers and policymakers who were directly involved in the crisis take a critical look at the challenges facing international policy cooperation in the new postcrisis environment and at how the theory and practice of cooperation have evolved as a result

of the crisis. This Selected Issues paper evaluates Australia's experience with its principles-based fiscal framework. A key contribution of the paper is an evaluation of whether the medium-term budget balance anchor remains suitable in the post-Global Financial Crisis (GFC) economic environment. This paper analyzes the medium-term fiscal strategy (MTFS) in the context of the principles underlying the fiscal framework and offers suggestions for reinforcement. Comparing the alternative and current fiscal policy toolkits under a downside scenario

demonstrates possible improvements to fiscal outcomes. The evaluation outlines that the operational principles of the MTFS have been consistent with the broad principles for sound fiscal policy laid out in the Charter, although implementation has involved difficult trade-offs. Options to deal with the treatment of debt, its accountability framework and its fiscal policy toolkit should help strengthen the statement and implementation of Australia's fiscal strategy and reinforce its fiscal framework in the current and prospective economic environment. 2013

International Conference on Advanced Education Technology and Management Science(AETMS2013) aims to provide a forum for accessing to the most up-to-date and authoritative knowledge from both Education Technology and Management Science. AETMS2013 features unique mixed topics of Education technology, Teaching theory, psychology, Sport Pedagogy, Management science and engineering, Finance and economics and so on. The goal of this conference is to bring researchers, engineers, and

students to the areas of Education Technology and Management Science to share experiences and original research contributions on those topics. This encyclopedia presents an all-embracing collection of analytical surface classes. It provides concise definitions and description for more than 500 surfaces and categorizes them in 38 classes of analytical surfaces. All classes are cross references to the original literature in an excellent bibliography. The encyclopedia is of particular interest to structural and civil engineers and serves as valuable reference for mathematicians.

Sea-level constitutes a critical planetary boundary for geological processes and human life. Sea-level fluctuations during major greenhouse phases are still enigmatic and strongly discussed in terms of changing climate systems. The geological record of the Cretaceous greenhouse period provides a deep-time view on greenhouse-phase Earthsystem processes that facilitates a much better understanding of the causes and consequences of global, geologically short-term, sea-level changes. In particular, Cretaceous hothouse periods

can serve as a laboratory to better understand a near-future greenhouse Earth. This volume presents high-resolution sea-level records from globally distributed sedimentary archives of the Cretaceous involving a large group of scientists from the International Geoscience Programme IGCP 609. Marine to non-marine sedimentary successions were analysed for revised age constraints, the correlation of global palaeoclimate shifts and sea-level changes, tested for climate-driven cyclicities, and correlated within a high-resolution stratigraphic framework of the

Geological Timescale. For hothouse periods, the hypothesis of significant global groundwater-related sea-level change, i.e. aquifer-eustasy as a major process, is reviewed and substantiated. The official records of the proceedings of the Legislative Council of the Colony and Protectorate of Kenya, the House of Representatives of the Government of Kenya and the National Assembly of the Republic of Kenya. This book discusses recent developments in and the latest research on mathematics, statistics and their applications. All contributing authors are

eminent academics, scientists, researchers and scholars in their respective fields, hailing from around the world. The book presents roughly 60 unpublished, high-quality and peer-reviewed research papers that cover a broad range of areas including approximation theory, harmonic analysis, operator theory, fixed-point theory, functional differential equations, dynamical and control systems, complex analysis, special functions, function spaces, summability theory, Fourier and wavelet analysis, and numerical analysis - all of which are topics of great interest to the research

community - while further papers highlight important applications of mathematical analysis in science, engineering and related areas. This conference aims at bringing together experts and young researchers in mathematics from all over the world to discuss the latest advances in mathematical analysis and at promoting the exchange of ideas in various applications of mathematics in engineering, physics and biology. This conference encourages international collaboration and provides young researchers an opportunity to learn about the current state of the

research in their respective fields. Whilst the Chinese Communist Party is one of the most powerful political institutions in the world, it is also one of the least understood, due to the party's secrecy and tight control over the archives, the press and the Internet. Having governed the People's Republic of China for nearly 70 years though, much interest remains into how this quintessentially Leninist party governs one-fifth of the world and runs the world's second-largest economy. The Routledge Handbook of the Chinese Communist Party gives a comprehensive and multi-faceted picture of the

party's traditions and values - as well as its efforts to stay relevant in the twenty-first century. It uses a wealth of contemporary data and qualitative analysis to explore the intriguing relationship between the party on the one hand, and the government, the legal and judicial establishment and the armed forces, on the other. Tracing the influence of Marx, Engels, Lenin and Stalin, as well as Mao Zedong, on contemporary leaders ranging from Deng Xiaoping and Jiang Zemin to Hu Jintao and Xi Jinping, the sections cover: the party's history and traditions; how the

party works and seeks to remain relevant; major policy arenas; the CCP in the twenty-first century. The Routledge Handbook of the Chinese Communist Party will be of interest to students and scholars of Chinese Politics, Asian Politics, Political Parties and International Relations. Go to <https://www.bookshop4u.com/lw1> to see Willy Lam introduce the book. To read a sample chapter, visit www.uapress.com. Baltimore is the birthplace of Francis Scott Key's "The Star-Spangled Banner," the incomparable Babe Ruth, and the gold medalist Michael Phelps. It's a one-of-a-kind town with

singular stories, well-publicized challenges, and also a rich sporting history. Baltimore Sports: Stories from Charm City chronicles the many ways that sports are an integral part of Baltimore's history and identity and part of what makes the city unique, interesting, and, for some people, loveable. Wide ranging and eclectic, the essays included here cover not only the Orioles and the Ravens, but also lesser-known Baltimore athletes and teams. Toots Barger, known as the "Queen of the Duckpins," makes an appearance. So do the Dunbar Poets, considered by some to be the greatest high-school basketball

team ever. Bringing together the work of both historians and journalists, including Michael Olesker, former Baltimore Sun columnist, and Rafael Alvarez, who was named Baltimore's Best Writer by Baltimore Magazine in 2014, Baltimore Sports illuminates Charm City through this fascinating exploration of its teams, fans, and athletes. Information is a critical resource for personal, economic and social development. Libraries and archives are the primary access point to information for individuals and communities with much of the information protected by

copyright or licence terms. In this complex legal environment, librarians and information professionals operate at the fulcrum of copyright's balance, ensuring understanding of and compliance with copyright legislation and enabling access to knowledge in the pursuit of research, education and innovation. This book, produced on behalf of the IFLA Copyright and other Legal Matters (CLM) Advisory Committee, provides basic and advanced information about copyright, outlines limitations and exceptions, discusses communicating

with users and highlights emerging copyright issues. The chapters note the significance of the topic; describe salient points of the law and legal concepts; present selected comparisons of approaches around the world; highlight opportunities for reform and advocacy; and help libraries and librarians find their way through the copyright maze. This volume collects original articles that address semantic and pragmatic aspects of secondary content, including expressives, various particles, adverbials, pronouns, quotations, and dogwhistle

language. This 10-chapter volume encompasses contributions from a wide spectrum of Earth science disciplines, including geophysics, geodynamics, geochemistry, and petrology, to provide an overview of the nature and evolution of the crust-mantle and lithosphere-asthenosphere boundaries in different tectonic settings, combining studies that exploit different types of data and interpretative approaches. The integration of geochemical, geophysical, and geodynamic data sets and their interpretation provides a state-of-the-art summary of

current understanding, and will serve as a blueprint for future research activities. Tobacco use represents a critical global health challenge. The World Health Organization estimates that tobacco kills nearly 6 million people a year, with the toll expected to rise to 8 million annually over the next two decades. Written by health and This edited collection analyses, from multiple disciplinary perspectives, the issue of corruption in commercial enterprise across different sectors and jurisdictions. Corruption is commonly recognised as a major 'social bad',

and is seriously harmful to society, in terms of the functioning and legitimacy of political-economic systems, and the day-to-day lives of individuals. There is nothing novel about bribes in brown envelopes and dubious backroom deals, ostensibly to grease the wheels of business. Corrupt practices like these go to the very heart of illicit transacting in both legal markets – such as kickbacks to facilitate contracts in international commerce – and illegal markets – such as payoffs to public officials to turn a blind eye to cross-border smuggling. Aside from the apparent pervasiveness and

longevity of corruption in commercial enterprise, there is now renewed policy and operational attention on the phenomenon, prompting and meriting deeper analysis. Corruption in commercial enterprise, encompassing behaviours often associated with corporate and white-collar crime, and corruption in criminal commercial enterprise, where we see corruption central to organised crime activities, are major public policy issues. This collection gives us insight into their nature, organisation and governance, and how to respond most appropriately

and effectively. Africa has experienced dozens of conflicts over a variety of issues during the past two decades. Responding to these conflicts requires concerted action to manage the crises - the violence, the political discord, and the humanitarian consequences of prolonged fighting. It is also necessary to address the long-term social and economic impacts of conflict, to rebuild communities, societies and states that have been torn apart. To accomplish this requires the involvement of institutions and groups rarely considered in

formal official African conflict management activities: schools, universities, religious institutions, media, commercial enterprises, legal institutions, civil society groups, youth, women and migrants. These groups and organizations have an important role to play in building a sense of identity, fairness, shared norms and cohesion between state and society - all critical components of the fabric of peace and security in Africa. This volume brings together leading experts from Africa, Europe and North America to examine these critical social institutions and groups, and consider how they

can either improve or impede peaceful conflict resolution. The overarching questions that are explored by the authors are: What constitutes social cohesion and resilience in the face of conflict? What are the threats to cohesion and resilience? And how can the positive elements be fostered and by whom? The second of two volumes on African conflict management capacity by the editors, *The Fabric of Peace in Africa: Looking beyond the State* opens new doors of understanding for students, scholars and practitioners focused on strengthening peace in Africa; the first volume,

Minding the Gap: African Conflict Management in a Time of change, focused on the role of mediation and peacekeeping in managing violence and political crises. While intense efforts of clarification have been made to distinguish between the concept of system and ecosystem, and between the different forms of ecosystems, very few works have addressed the issues of how these different forms of ecosystems are interacting in a dynamic perspective, or of how the notion of a dynamic ecosystem could emerge from the static frame of a system approach. The five chapters in

this volume precisely aim at adding to this literature by highlighting the interplay between different types of innovation systems. A common thread among the five chapters of the book is the recognition of the need to develop new lenses to formally account for adaptative behaviour within clusters, networks, or regional innovation systems using the ecosystem metaphor. The diversity and heterogeneity of agents, the complexity of relationships, and new forms of organisation (underground, middleground, and upperground) are

the main characteristics of innovation ecosystems, in contrast to more traditional concepts like clusters or networks. In essence, the five chapters add various complexity dimensions (relationships, knowledge, systems, etc.) to the existing knowledge on ecosystems. The chapters in this book were originally published as a special issue of the journal *Industry and Innovation*. This book constitutes the refereed proceedings of the 32nd International Conference on Conceptual Modeling, ER 2013, held in Hong Kong, China, in November 2013. The 23 full

and 17 short papers presented were carefully reviewed and selected from 148 abstracts and 126 full papers submissions. The papers are organized in topical sections on modeling and reasoning, fundamentals of conceptual modeling, business process modeling, network modeling, data semantics, security and optimization, ontology-based modeling, searching and mining, conceptual modeling and applications, demonstration papers. *Chlorides—Advances in Research and Application: 2013 Edition* is a ScholarlyEditions™ book that delivers

timely, authoritative, and comprehensive information about Cadmium Chloride. The editors have built *Chlorides—Advances in Research and Application: 2013 Edition* on the vast information databases of ScholarlyNews.™ You can expect the information about Cadmium Chloride in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of *Chlorides—Advances in Research and Application: 2013 Edition* has been produced by the world's leading scientists,

engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. We propose a toolkit for the assessment of systemic risk buildup in low income countries. We show that, due to non-linearity in the relationship between credit and financial stability, the assessment

should be conducted with different tools at different stages of financial development. In particular, when the level of financial depth is low, traditional leading indicators of banking crises have poor predictive performance and the analysis should be based on indicators that account for financial deepening while taking into consideration countries' structural limits. By using this framework, we provide a preliminary assessment of systemic risk buildup in individual SSA countries. Highlights the

human components of Remotely Piloted Aircraft Systems, their interactions with the technology and each other, and the implications of human capabilities and limitations for the larger system Considers human factors issues associated with RPAS, but within the context of a very large system of people, other vehicles, policy, safety concerns, and varying applications Chapters have been contributed by world class experts in HSI and those with operational RPAS experience Considers unintended consequences associated with taking a more myopic view of this system Examines

implications for practice, policy, and research. Consider both civil and military aspects of RPAS. The Model Rules of Professional Conduct provides an up-to-date resource for information on legal ethics. Federal, state and local courts in all jurisdictions look to the Rules for guidance in solving lawyer malpractice cases, disciplinary actions, disqualification issues, sanctions questions and much more. In this volume, black-letter Rules of Professional Conduct are followed by numbered Comments that explain each Rule's purpose and

provide suggestions for its practical application. The Rules will help you identify proper conduct in a variety of given situations, review those instances where discretionary action is possible, and define the nature of the relationship between you and your clients, colleagues and the courts. The interest in robotics has remarkably augmented over recent years. Novel solutions for complex and very diverse application fields (exploration/intervention in severe environments, assistive, social, personal services, emergency rescue operations, transportation, entertainment,

unmanned aerial vehicles, medical, etc.), has been anticipated by means of a large progress in this area of robotics. Moreover, the amalgamation of original ideas and related innovations, the search for new potential applications and the use of state of the art supporting technologies permit to foresee an important step forward and a significant socio-economic impact of advanced robot technology in the forthcoming years. In response to the technical challenges in the development of these sophisticated machines, a significant research and development effort has yet to be

undertaken. It concerns embedded technologies (for power sources, actuators, sensors, information systems), new design methods, adapted control techniques for highly redundant systems, as well as operational and decisional autonomy and human/robot co-existence. This book contains the proceedings of the ROBOT 2013: FIRST IBERIAN ROBOTICS CONFERENCE and it can be said that included both state of the art and more practical presentations dealing with implementation

problems, support technologies and future applications. A growing interest in Assistive Robotics, Agricultural Robotics, Field Robotics, Grasping and Dexterous Manipulation, Humanoid Robots, Intelligent Systems and Robotics, Marine Robotics, has been demonstrated by the very relevant number of contributions. Moreover, ROBOT2013 incorporates a special session on Legal and Ethical Aspects in Robotics that is becoming a topic of key relevance. This Conference will be held in Madrid

(28-29 November 2013), organised by the Sociedad Española para la Investigación y Desarrollo en Robótica (SEIDROB) and by the Centre for Automation and Robotics - CAR (Universidad Politécnica de Madrid (UPM) and Consejo Superior de Investigaciones Científicas (CSIC)), along with the co-operation of Grupo Temático de Robótica CEA-GTRob, Sociedade Portuguesa de Robotica (SPR), and Asociación Española de Promoción de la Investigación en Agentes Físicos (RedAF).