

Digital Image Processing Eng Abeer

Public places are places where all citizens, irrespective of their race, age, religion, or class level (social or economic), cannot be excluded. It serves to improve the lifestyle experience of its inhabitants, as well as promote social connections. All citizens are responsible for it and are interested in it, and the intervention for change must be the responsibility of all without exception. As such, bottom-up urban planning is essential for urban environments and for transforming nightlife in public places in order to create more meaningful experiences and instill a greater sense of identity and community. Transforming Urban Nightlife and the Development of Smart Public Spaces analyzes the patterns of transformations of nightlife in public life. The book investigates urban nightlife transformations and the challenge of enhancing the sense of belonging in sensitive areas such as local communities and historical sites. The chapters present new insights to control the chaotic intervention related to the elements of traditional or digital technology, whether from citizens themselves or local authorities. The objective also is to document urban nightlife transformations that enhance the sense of belonging in historical sites. Important topics covered include urban-gamification, digital urban art, urban socio-ecosystems, and reimagining space in the urban nightlife. This book is ideal for urban planners, developers, social scientists, technologists, civil engineers, architects, policymakers, government officials, practitioners, researchers, academicians, and students who are interested in urban nightlife and nightscape and the smart technologies used for transformation.

In *The Most Notorious Jailbreakers*, journalist Abeer Kapoor helps you meet some really 'infamous' people, all of them criminals, who have escaped the gated walls of prisons all over India. From a math and computer teacher who is actually a rapist on parole, to a backward caste gangster famous for his bloodshedding escapade, and a former PM of a princely state who will do anything to con the authorities; Abeer pieces together the escape plans of 16 such notorious convicts who gave authorities hell, every time.

This contribution book collects reviews and original articles from eminent experts working in the interdisciplinary arena of novel drug delivery systems and their uses. From their direct and recent experience, the readers can achieve a wide vision on the new and ongoing potentialities of different smart drug delivery systems. Since the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges, there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery. On the other hand, this reference discusses advances in the design, optimization, and adaptation of gene delivery systems for the treatment of cancer, cardiovascular, diabetic, genetic, and infectious diseases, and considers assessment and review procedures involved in the development of gene-based pharmaceuticals.

The life of high school student Arnie Alvarez is changed forever after a near fatal encounter with a creature he had only read about in books leaves him for dead changing his life and the life of others close to him. In the attack a dark curse is passed and a new bloodline is born. With each passing day he struggles within himself to ignore the terrible instincts bequeathed upon him as each new cycle of the moon he finds himself slipping farther and farther away from who he was. Childhood friend Jay Summer's is the only one to discover Arnie's terrifying secret. A secret that will soon surround the two friends in an unscapable shroud of death.

The Luxor Museum houses a fine collection of Egyptian antiquities that is beautifully exhibited. This illustrated volume highlights some of the masterpieces found in ancient Thebes. There are glorious examples of ancient artifacts from tombs and temples in Karnak and Luxor, and the Deir al-Bahari mummy cache. Middle Kingdom statues depict the pharaohs who made Thebes their political capital and Amun the king of the gods. The New Kingdom brings statues and artifacts from the time of the great pharaohs such as Ahmose, Hatshepsut, and Thutmose III. Akhenaten and the revolutionary Amarna art, and the famous boy king Tutankhamun, are present too.

Optical methods of measurements are the most sensitive techniques of noncontact investigations, and at the same time, they are fast as well as accurate which increases reproducibility of observed results. In recent years, the importance of optical interferometry methods for research has dramatically increased, and applications range from precise surface testing to finding extrasolar planets. This book covers various aspects of optical interferometry including descriptions of novel apparatuses and methods, application interferometry for studying biological objects, surface qualities, materials characterization, and optical testing. The book includes a series of chapters in which experts share recent progress in interferometry through original research and literature reviews.

Visualization in Medicine is the first book on visualization and its application to problems in medical diagnosis, education, and treatment. The book describes the algorithms, the applications and their validation (how reliable are the results?), and the clinical evaluation of the applications (are the techniques useful?). It discusses visualization techniques from research literature as well as the compromises required to solve practical clinical problems. The book covers image acquisition, image analysis, and interaction techniques designed to explore and analyze the data. The final chapter shows how visualization is used for planning liver surgery, one of the most demanding surgical disciplines. The book is based on several years of the authors' teaching and research experience. Both authors have initiated and lead a variety of interdisciplinary projects involving computer scientists and medical doctors, primarily radiologists and surgeons. * A core field of visualization and graphics missing a dedicated book until now * Written by pioneers in the field and illustrated in full color * Covers theory as well as practice

In *Nietzsche's Coming God*, the author demonstrates that the "destructive" and "nihilistic" side of Nietzsche's thought was in fact only a hammer that Nietzsche used in order to destroy the "millenarian lies" of Judeo-Christianity, a necessary - albeit transitory - stage that preceded his ultimate creation: the Superman, an incarnation of the god in the making... the coming god. Contrary to popular belief, Nietzsche was both a free spirit and a deeply spiritual thinker who welcomed the death of the false god - the god who curses and denies life - not as an end in itself, but as a prelude to the rebirth of the divine. Indeed, although Nietzsche was an avowed atheist, he was also "the most pious of the godless," as he described himself in *Thus Spoke Zarathustra*. Nietzsche dreamt of, and augured, a new mode of divinity and a new hope for mankind which, having rejected both religious obscurantist dogma as well as Cartesian rationalist dogma, would be the search for eternal self-perfection and self-overcoming. The death of the god of monotheism thus paved the way for a new, pantheistic and pagan vision of the divine, heralding a "god to come" beyond good and evil, a god who affirms and blesses life. Nietzsche's coming god is none other than Dionysus reborn, or the redemption of the divine. Abir Taha holds a postgraduate degree in Philosophy from the Sorbonne, and is a career diplomat for the government of Lebanon, having previously served as the Consul at the Lebanese embassy in Paris. A thinker and a poet as well, she has spent years conducting in-depth research and analysis into Nietzsche's thought, which has led her to assert the importance of the spiritual dimension of his philosophy, derived from the Vedic tradition of India as well as ancient Greek philosophy. Unlike other Nietzsche scholars, who treat him as a purely secular philosopher, Taha believes that this spirituality lies at the very heart of his thought. In English she has previously published *Nietzsche, Prophet of Nazism: The Cult of the Superman* (2005) and *The Epic of Arya: In Search of the Sacred Light* (2009).

This book explores the challenges of cross-cultural translation of American literary works into Arabic which, I argue, have prevented many nineteenth-century literary works from being translated into Arabic. I have used the Arabic translations of Harriet Beecher Stowe's "*Uncle Tom's Cabin*"> and an abridged English text accompanying one of the translations as a case

study. Since most of the Arabic translations of English and especially American literary works are merely linguistic oriented ones, I reinforce the importance of adopting a period-specific cultural-oriented approach that maintains the cultural context of American literary works, including the historical, cultural, religious, geopolitical, and gender-based elements, during the literary translation into the Arabic culture. I start with discussing the internationalization of American works and the importance of a cultural reading of these works. Reviewing many translations of English and American works in general, I categorize the challenges of cross-cultural literary translation from English into Arabic into the following: cultural, religious, geopolitical, and gender-based ones. While I am not calling for accurate cross-cultural literary translations since it is impossible, however, I am advocating for faithful translations which maintain the literary text's cultural and historical contexts. The accuracy of a literary translation depends on the amount of linguistic skill a translator has while the faithfulness of a literary translation is based upon the translator's sincere effort to include the literary text's entire cultural context including the historical, cultural, religious, geopolitical, and gender-based elements. Using Uncle Tom's Cabin as a case study, I discuss how the previous challenges had negatively affected the translation process of the work. Despite the fact the work has been translated seven times into Arabic, due to the linguistic-oriented approach, the historical and cultural significance of Stowe's novel has not yet been introduced to Arab readers through translation. Due to the current era of globalization that demands individuals to have multicultural knowledge and understanding and due to the recent cultural and translation projects of literary works from English into Arabic, this book reinforces the importance and possibility of addressing the cultural, religious, geopolitical, and gender-based challenges while using "Uncle Tom's Cabin" as an example.

Reflects a truly grandiose project of the Aga Khan Foundation,

This supplement to any standard DSP text is one of the first books to successfully integrate the use of MATLAB® in the study of DSP concepts. In this book, MATLAB® is used as a computing tool to explore traditional DSP topics, and solve problems to gain insight. This greatly expands the range and complexity of problems that students can effectively study in the course. Since DSP applications are primarily algorithms implemented on a DSP processor or software, a fair amount of programming is required. Using interactive software such as MATLAB® makes it possible to place more emphasis on learning new and difficult concepts than on programming algorithms. Interesting practical examples are discussed and useful problems are explored. This updated second edition includes new homework problems and revises the scripts in the book, available functions, and m-files to MATLAB® V7.

This book provides information on nomenclature, tooth numbering systems, tooth morphology, and anatomy and stages of tooth formation. It continues with root canal morphology and anatomy of incisors, canines, premolars, and molars. External and internal anatomies of mandibular permanent incisors and maxillary permanent first molars are presented according to a literature review. Orofacial structures affecting tooth morphology are discussed in detail. The book ends with the evolution of dental implant shapes and today's custom root analog implants. As modern technologies continue to develop and evolve, the ability of users to adapt with new systems becomes a paramount concern. Research into new ways for humans to make use of advanced computers and other such technologies through artificial intelligence and computer simulation is necessary to fully realize the potential of tools in the 21st century. Advanced Methodologies and Technologies in Artificial Intelligence, Computer Simulation, and Human-Computer Interaction provides emerging research in advanced trends in robotics, AI, simulation, and human-computer interaction. Readers will learn about the positive applications of artificial intelligence and human-computer interaction in various disciplines such as business and medicine. This book is a valuable resource for IT professionals, researchers, computer scientists, and researchers invested in assistive technologies, artificial intelligence, robotics, and computer simulation.

This two-volume-set (CCIS 188 and CCIS 189) constitutes the refereed proceedings of the International Conference on Digital Information Processing and Communications, ICDIPC 2011, held in Ostrava, Czech Republic, in July 2011. The 91 revised full papers of both volumes presented together with 4 invited talks were carefully reviewed and selected from 235 submissions. The papers are organized in topical sections on network security; Web applications; data mining; neural networks; distributed and parallel processing; biometrics technologies; e-learning; information ethics; image processing; information and data management; software engineering; data compression; networks; computer security; hardware and systems; multimedia; ad hoc network; artificial intelligence; signal processing; cloud computing; forensics; security; software and systems; mobile networking; and some miscellaneous topics in digital information and communications.

Polyhedral Oligomeric Silsesquioxane (POSS) Polymer Nanocomposites: From Synthesis to Applications offers extensive coverage of polyhedral oligomeric silsesquioxanes and their nanocomposites, including their synthesis, characterization, interfacial interactions and advanced applications. Sections introduce essentials, information on their preparation and discussions on polymeric materials, including elastomers, thermoplastics, thermosetting polymers, polymer blends and IPNs. Further sections cover the latest analysis techniques, examine the properties of POSS-polymer nanocomposites, and discuss key application areas, such as biological, energy, defense, and space. Finally, issues surrounding industry implementation and lifecycle are explored. This is a valuable reference for researchers, scientists and advanced students in the areas of polymer composites and nanocomposites, polymer chemistry, polymer physics, polymer science, and materials science and engineering. In an industrial setting, this book will be of great interest to scientists, R&D professionals, and engineers across industries and disciplines. Covers all aspects of polyhedral oligomeric silsesquioxanes (POSS) and their nanocomposites, including synthesis and characterization techniques, properties, analysis, applications and trends Targets POSS nanocomposites, describing synthesis, characterization and the selection of POSS filler types according to polymeric material Explains the preparation and utilization of POSS polymer nanocomposites for cutting-edge applications, including biological, energy, and defense field applications

'Told with vivid lyricism yet unflinching in its gaze, Abeer Hoque's memoir is the tender coming-of-age story of migration on three continents, and about the pain, rupture, and redemptive possibilities of displacement.' - Tahmima Anam, author of The Bones of Grace 'Engrossing ... Hoque's writing is an elegant melange of candor and a strange sense of calmness, which she maintains throughout ... An evocative examination of identity and what it means to be true to yourself.' - Booklist, review, 2/1/2017 'Told with vivid lyricism yet unflinching in its gaze, Abeer Hoque's memoir is the coming-of-age story of migration on three continents, and about the pain, rupture, and redemptive possibilities of displacement.' - Tahmima Anam, author of The Bones of Grace 'I saw Abeer Y. Hoque - and bought Olive Witch - when she captivated audiences at this past year's Jaipur Literature Festival. Her work was among that which I came back to the

U.S. hoping there would be a home over here for. This is a vivid, moving coming-of-age story.' - Rick Simonson, Elliott Bay Book Company 'Raw, unblinking, urgent-in-these-times...Olive Witch is ultimately an encouraging, timely story for the masses, an inspiration to live - authentically, globally, with urgent immediacy.' - Christian Science Monitor In the 1970s, Nigeria is flush with oil money, building new universities, and hanging on to old colonial habits. Abeer Hoque is a Bangladeshi girl growing up in a small sunlit town, where the red clay earth, corporal punishment and running games are facts of life. At thirteen she moves with her family to suburban Pittsburgh and finds herself surrounded by clouded skies and high schoolers who speak in movie quotes and pop culture slang. Finding her place as a young woman in America proves more difficult than she can imagine. Disassociated from her parents, and laid low by academic pressure and spiralling depression, she is committed to a psychiatric ward in Philadelphia. When she moves to Bangladesh on her own, it proves to be yet another beginning for someone who is only just getting used to being an outsider - wherever she is. Arresting and beautifully written, with poems and weather conditions framing each chapter, Olive Witch is an intimate memoir about taking the long way home.

This book explores the changing role of Muslim women in the economy in the twenty-first century. Sociological developments such as secular education, female-focused policies, national and global commitments to gender equality as well as contemporary technological advances have all served to shift and redefine the domestic and public roles of Muslim women, leading in many places to increases in workplace participation and entrepreneurship. The volume investigates the contexts of these shifts and the experiences of women balancing faith and other commitments to actively engage in the economy in vastly different countries. The book looks at how family codes and the understandings of Muslim male and female roles sit alongside social and economic advances and the increases in women partaking in the economy. Within a globalised world, it also highlights the importance of the implementation of the current sustainable development priorities in the context of Muslim societies, including Sustainable Development Goal 5 that focuses on the vital role of women and their full participation in all areas of sustainable development. With cases ranging from Saudi Arabia, Iran, Bangladesh, Pakistan, Indonesia, Nigeria, Kenya through to Spain, Bulgaria and Australia, Muslim Women in the Economy will be of considerable interest to those studying, researching and interested in gender, development and religious studies.

Machine Dreaming and Consciousness is the first book to discuss the questions raised by the advent of machine dreaming. Artificial intelligence (AI) systems meeting criteria of primary and self-reflexive consciousness are often utilized to extend the human interface, creating waking experiences that resemble the human dream. Surprisingly, AI systems also easily meet all human-based operational criteria for dreaming. These "dreams are far different from anthropomorphic dreaming, including such processes as fuzzy logic, liquid illogic, and integration instability, all processes that may be necessary in both biologic and artificial systems to extend creative capacity. Today, multi-linear AI systems are being built to resemble the structural framework of the human central nervous system. The creation of the biologic framework of dreaming (emotions, associative memories, and visual imagery) is well within our technical capacity. AI dreams potentially portend the further development of consciousness in these systems. This focus on AI dreaming raises even larger questions. In many ways, dreaming defines our humanity. What is humanly special about the states of dreaming? And what are we losing when we limit our focus to its technical and biologic structure, and extend the capacity for dreaming into our artificial creations? Machine Dreaming and Consciousness provides thorough discussion of these issues for neuroscientists and other researchers investigating consciousness and cognition. Addresses the function and role of dream-like processing in AI systems Describes the functions of dreaming in the creative process of both humans and machines Presents an alternative approach to the philosophy of machine consciousness Provides thorough discussion of machine dreaming and consciousness for neuroscientists and other researchers investigating consciousness and cognition

Alia takes matters into her own hands when government officials refuse to listen to her concerns about the books in the Baòsrah Central Library.

A timely work describing how localized hospital-based health technology assessment (HB-HTA) complements general, 'arms-length' HTA agency efforts, and what has been the collective global impact of HB-HTA across the globe. While HB-HTA has gained significant momentum over the past few years, expertise in the field, and information on the operation and organization of HB-HTA, has been scattered. This book serves to bring this information together to inform those who are currently working in the field of HTA at the hospital, regional, national or global level. In addition, this book is intended for decision-makers and policy-makers with a stake in determining the uptake and decommissioning of new and established technologies in the hospital setting. HTA has traditionally been performed at the National/Regional level by HTA Agencies, typically linked to governments. Yet hospitals are the main entry door for most health technologies (HTs). Hospital decision-makers must undertake multiple high stakes investment and disinvestment decisions annually for innovative HTs, usually without adequate information. Despite the existence of arms-length HTA Agencies, inadequate information is available to hospital decision-makers either because relevant HTA reports are not yet released at the time of entry of new technologies to the field, or because even when the report exists, the information contained is insufficient to clarify the contextualized informational needs of hospital decision makers. Therefore, there has recently been a rising trend toward hospital-based HTA units and programs. These units/programs complement the work of National/Regional HTA Agencies by providing the key and relevant evidence needed by hospital decision makers in their specific hospital context, and within required decision-making timelines. The emergence of HB-HTA is creating a comprehensive HTA ecosystem across health care levels, which creates better bridges for knowledge translation through relevance and timeliness.

The volume contains 75 papers presented at International Conference on Communication and Networks (COMNET 2015) held during February 19–20, 2016 at Ahmedabad Management Association (AMA), Ahmedabad, India and organized by Computer Society of India (CSI), Ahmedabad Chapter, Division IV and Association of Computing

Machinery (ACM), Ahmedabad Chapter. The book aims to provide a forum to researchers to propose theory and technology on the networks and services, share their experience in IT and telecommunications industries and to discuss future management solutions for communication systems, networks and services. It comprises of original contributions from researchers describing their original, unpublished, research contribution. The papers are mainly from 4 areas – Security, Management and Control, Protocol and Deployment, and Applications. The topics covered in the book are newly emerging algorithms, communication systems, network standards, services, and applications.

New technologies have the power to augment many aspects of society, including public spaces and art. The impact of smart technology on urban design is vast and filled with opportunity and has profound implications on the everyday urban environment. Only by starting new conversations can we develop further contemporary insights that will affect how we move through the world. *Reconstructing Urban Ambiance in Smart Public Places* is a pivotal reference source that provides contemporary insights into a comprehensive interpretation of urban ambiances in smart places as it relates to the development of cities or to various levels of intervention in extant urban environments. The book also examines the impact of architectural design on the creation of urban ambience in artworks and how to reflect this technique in the fields of professional architectural practice.

While covering a wide range of topics including wellbeing, quality-related artistry, and atmosphere, this publication combines smart technological innovation with creative design principles. This book is ideally designed for civil engineers, urban designers, architects, entrepreneurs, policymakers, researchers, academicians, and students.

This proceedings addresses the challenges of urbanization that gravely affect the world's ecosystems. To become efficiently sustainable and regenerative, buildings and cities need to adopt smart solutions. This book discusses innovations of the built environment while depicting how such practices can transform future buildings and urban areas into places of higher value and quality. The book aims to examine the interrelationship between people, nature and technology, which is essential in pursuing smart environments that optimize human wellbeing, motivation and vitality, as well as promoting cohesive and inclusive societies: Urban Sociology - Community Involvement - Place-making and Cultural Continuity - Environmental Psychology - Smart living - Just City. The book presents exemplary practical experiences that reflect smart strategies, technologies and innovations, by established and emerging professionals, provides a forum of real-life discourse. The primary audience for the work will be from the fields of architecture, urban planning and built-environment systems, including multi-disciplinary academics as well as professionals.

A comprehensive and up-to-date textbook and reference for computational imaging, which combines vision, graphics, signal processing, and optics. Computational imaging involves the joint design of imaging hardware and computer algorithms to create novel imaging systems with unprecedented capabilities. In recent years such capabilities include cameras that operate at a trillion frames per second, microscopes that can see small viruses long thought to be optically irresolvable, and telescopes that capture images of black holes. This text offers a comprehensive and up-to-date introduction to this rapidly growing field, a convergence of vision, graphics, signal processing, and optics. It can be used as an instructional resource for computer imaging courses and as a reference for professionals. It covers the fundamentals of the field, current research and applications, and light transport techniques. The text first presents an imaging toolkit, including optics, image sensors, and illumination, and a computational toolkit, introducing modeling, mathematical tools, model-based inversion, data-driven inversion techniques, and hybrid inversion techniques. It then examines different modalities of light, focusing on the plenoptic function, which describes degrees of freedom of a light ray. Finally, the text outlines light transport techniques, describing imaging systems that obtain micron-scale 3D shape or optimize for noise-free imaging, optical computing, and non-line-of-sight imaging. Throughout, it discusses the use of computational imaging methods in a range of application areas, including smart phone photography, autonomous driving, and medical imaging. End-of-chapter exercises help put the material in context.

The efficient usage, investigation, and promotion of new methods, tools, and technologies within the field of architecture, particularly in urban planning and design, is becoming more critical as innovation holds the key to cities becoming smarter and ultimately more sustainable. In response to this need, strategies that can potentially yield more realistic results are continually being sought. *The Handbook of Research on Digital Research Methods and Architectural Tools in Urban Planning and Design* is a critical reference source that comprehensively covers the concepts and processes of more than 20 new methods in both planning and design in the field of architecture and aims to explain the ways for researchers to apply these methods in their works. Pairing innovative approaches alongside traditional research methods, the physical dimensions of traditional and new cities are addressed in addition to the non-physical aspects and applied models that are currently under development in new settlements such as sustainable cities, smart cities, creative cities, and intercultural cities. Featuring a wide range of topics such as built environment, urban morphology, and city information modeling, this book is essential for researchers, academicians, professionals, technology developers, architects, engineers, and policymakers.

Edited by and featuring contributions from world-class researchers, *Ophthalmological Imaging and Applications* offers a unified work of the latest human eye imaging and modeling techniques that have been proposed and applied to the diagnosis of ophthalmologic problems, including inflammation, cataracts, diabetic retinopathy, and glaucoma. With a foc

The narrator of *Always Coca-Cola*, Abeer Ward (fragrant rose, in Arabic), daughter of a conservative family, admits wryly that her name is also the name of her father's flower shop. Abeer's bedroom window is filled by a view of a Coca-Cola sign featuring the image of her sexually adventurous friend, Jana. From the novel's opening paragraph—"When my mother was pregnant with me, she had only one craving. That craving was for Coca-Cola"—first-time novelist Alexandra Chreiteh asks us to see, with wonder, humor, and dismay, how inextricably confused naming and desire, identity and branding are. The names—and the novel's edgy, cynical humor—might be recognizable across languages, but

Chreiteh's novel is first and foremost an exploration of a specific Lebanese milieu. Critics in Lebanon have called the novel "an electric shock."

It is essential that differently oriented specialists and students involved in image processing have a firm grasp of the necessary concepts and principles. A single-source reference that can provide this foundation, as well as a thorough explanation of the techniques involved, particularly those found in medical image processing, would be an

A successor to the popular Artech House title Information Hiding Techniques for Steganography and Digital Watermarking, this comprehensive and up-to-date new resource gives the reader a thorough review of steganography, digital watermarking and media fingerprinting with possible applications to modern communication, and a survey of methods used to hide information in modern media. This book explores Steganography, as a means by which two or more parties may communicate using invisible or subliminal communication. "Steganalysis" is described as methods which can be used to break steganographic communication. This comprehensive resource also includes an introduction to watermarking and its methods, a means of hiding copyright data in images and discusses components of commercial multimedia applications that are subject to illegal use. This book demonstrates a working knowledge of watermarking's pros and cons, and the legal implications of watermarking and copyright issues on the Internet.

Palestinian prisoners charged with security-related offences are immediately taken as a threat to Israel's security. They are seen as potential, if not actual, suicide bombers. This stereotype ignores the political nature of the Palestinian prisoners' actions and their desire for liberty. By highlighting the various images of Palestinian prisoners in the Israel-Palestine conflict, Abeer Baker and Anat Matar chart their changing fortunes. Essays written by prisoners, ex-prisoners, Human rights defenders, lawyers and academic researchers analyze the political nature of imprisonment and Israeli attitudes towards Palestinian prisoners. These contributions deal with the prisoners' status within Palestinian society, the conditions of their imprisonment and various legal procedures used by the Israeli military courts in order to criminalize and de-politicize them. Also addressed are Israel's breaches of international treaties in its treatment of the Palestinian prisoners, practices of torture and solitary confinement, exchange deals and prospects for release. This is a unique intervention within Middle East studies that will inspire those working in human rights, international law and the peace process.

Next Generation CAD/CAM/CAE Systems Visualization in Medicine Theory, Algorithms, and Applications Elsevier

Regulation of the Power Sector is a unified, consistent and comprehensive treatment of the theories and practicalities of regulation in modern power-supply systems. The need for generation to occur at the time of use occasioned by the impracticality of large-scale electricity storage coupled with constant and often unpredictable changes in demand make electricity-supply systems large, dynamic and complex and their regulation a daunting task. Arranged in four parts, this book addresses both traditional regulatory frameworks and also liberalized and re-regulated environments. First, an introduction gives a full characterization of power supply including engineering, economic and regulatory viewpoints. The second part presents the fundamentals of regulation and the third looks at the regulation of particular components of the power sector in detail. Advanced topics and subjects still open or subject to dispute form the content of Part IV. In a sector where regulatory design is the key driver of both the industry efficiency and the returns on investment, Regulation of the Power Sector is directed at regulators, policy decision makers, business managers and researchers. It is a pragmatic text, well-tested by the authors' quarter-century of experience of power systems from around the world. Power system professionals and students at all levels will derive much benefit from the authors' wealth of blended theory and real-world-derived know-how.

This book constitutes the refereed proceedings of the International Conference Eco-friendly Computing and Communication Systems, ICECCS 2012, held in Kochi, Kerala, India, in August 2012. The 50 revised full papers presented were carefully reviewed and selected from 133 submissions. The papers are organized in topical sections on energy efficient software system and applications; wireless communication systems; green energy technologies; image and signal processing; bioinformatics and emerging technologies; secure and reliable systems; mathematical modeling and scientific computing; pervasive computing and applications.

Feature Extraction for Image Processing and Computer Vision is an essential guide to the implementation of image processing and computer vision techniques, with tutorial introductions and sample code in MATLAB and Python. Algorithms are presented and fully explained to enable complete understanding of the methods and techniques demonstrated. As one reviewer noted, "The main strength of the proposed book is the link between theory and exemplar code of the algorithms." Essential background theory is carefully explained. This text gives students and researchers in image processing and computer vision a complete introduction to classic and state-of-the art methods in feature extraction together with practical guidance on their implementation. The only text to concentrate on feature extraction with working implementation and worked through mathematical derivations and algorithmic methods A thorough overview of available feature extraction methods including essential background theory, shape methods, texture and deep learning Up to date coverage of interest point detection, feature extraction and description and image representation (including frequency domain and colour) Good balance between providing a mathematical background and practical implementation Detailed and explanatory of algorithms in MATLAB and Python

"This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.

Introduction to Digital Speech Processing highlights the central role of DSP techniques in modern speech communication research and applications. It presents a comprehensive overview of digital speech processing that ranges from the basic nature of the speech signal, through a variety of methods of representing speech in digital form, to applications in voice communication and automatic synthesis and recognition of speech. Introduction to Digital Speech Processing provides the reader with a practical introduction to the wide range of important concepts that comprise the field of digital speech processing. It serves as an invaluable reference for students embarking on speech research as well as the experienced researcher already working in the field, who can utilize the book as a reference guide.

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