

## Ching Wen Chen 2009 02 26

The functionalization of nanomaterials provides them with some unique properties, making the same nanomaterial amenable for various applications by simply manipulating functional components. However, functionalized nanomaterials also face some challenges, along with some encouraging new applications in the future. This book provides a detailed account of applications of the functionalization of nanomaterials. This book can serve as a reference book for scientific investigators, including doctoral and post-doctoral scholars and undergraduate and graduate students, in context with the scope of applications of functionalized nanomaterials. It also highlights recent advances, challenges, and opportunities in the application of nanomaterials. This book will provide critical and comparative data for nanotechnologists. It may also be beneficial for multidisciplinary researchers, industry personnel, journalists, policy makers, and the common public to understand the scope of functionalized nanomaterials in detail and in depth. Features: This book covers various applications of functionalized nanomaterials. It discusses recent global research trends and future applications of functionalized nanomaterials. It highlights the need for more rigorous regulatory frameworks for the safe use of functionalized nanomaterials. It contains contributions from international experts and will be a valuable resource for researchers.

Family networks and wider personal social relationships - *guanxi* - have long been held to be a significant factor making for the success of many Chinese family businesses, and *guanxi* is often seen as a special characteristic which shapes the nature of all business in China. This book re-examines this proposition critically, bringing together the very latest research and comparing the situation in different parts of "Greater China" – mainland China, Taiwan and Hong Kong. It considers entrepreneurship, venture capital, intergenerational succession, disputes, family businesses in different sectors of the economy, and particular family businesses. Among the book's many interesting conclusions is the observation that *guanxi* capitalism has evolved in different ways in the different parts of Greater China, with the particular institutional setting having a major impact.

This book aims to bring together recent advances and applications of video coding. All chapters can be useful for researchers, engineers, graduate and postgraduate students, experts in this area, and hopefully also for people who are generally interested in video coding. The book includes nine carefully selected chapters. The chapters deal with advanced compression techniques for multimedia applications, concerning recent video coding standards, high efficiency video coding (HEVC), multiple description coding, region of interest (ROI) coding, shape compensation, error resilient algorithms for H.264/AVC, wavelet-based coding, facial video coding, and hardware implementations. This book provides several useful ideas for your own research and helps to bridge the gap between the basic video coding techniques and practical multimedia applications. We hope this book is enjoyable to read and will further contribute to video coding.

The congress's unique structure represents the two dimensions of technology and medicine: 13 themes on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research, development and application. Each of the congress themes was chaired by two leading experts. The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges.

The Yunnanese from southwestern China have for millennia traded throughout upland Southeast Asia. Burma in particular has served as a "back door" to Yunnan, providing a sanctuary for political refugees and economic opportunities for trade explorers. Since the Chinese Communist takeover in 1949 and subsequent political upheavals in China, an unprecedented number of Yunnanese refugees have fled to Burma. Through a personal narrative approach, *Beyond Borders* is the first ethnography to focus on the migration history and transnational trading experiences of contemporary Yunnanese Chinese migrants (composed of both Yunnanese Han and Muslims) who reside in Burma and those who have moved from Burma and resettled in Thailand, Taiwan, and China. Since the 1960s, Yunnanese Chinese migrants of Burma have dominated the transnational trade in opium, jade, and daily consumption goods. Wen-Chin Chang writes with deep knowledge of this trade's organization from the 1960s of mule-driven caravans to the use of modern transportation, and she reconstructs trading routes while examining embedded sociocultural meanings. These Yunnanese migrants' mobility attests to the prevalence of travel not only by the privileged but also by different kinds of people. Their narratives disclose individual life processes as well as networks of connections, modes of transportation, and differences between the experiences of men and women. Through traveling they have carried on the mobile livelihoods of their predecessors, expanding overland trade beyond its historical borderlands between Yunnan and upland Southeast Asia to journeys further afield by land, sea, and air.

Interweaving the narratives of multiple family members, including parents and siblings of her queer and trans informants, Amy Brainer analyzes the strategies that families use to navigate their internal differences. In *Queer Kinship and Family Change in Taiwan*, Brainer looks across generational cohorts for clues about how larger social, cultural, and political shifts have materialized in people's everyday lives. Her findings bring light to new parenting and family discourses and enduring inequalities that shape the experiences of queer and heterosexual kin alike. Brainer's research takes her from political marches and support group meetings to family dinner tables in cities and small towns across Taiwan. She speaks with parents and siblings who vary in whether and to what extent they have made peace with having a queer or transgender family member, and queer and trans people who vary in what they hope for and expect from their families of origin. Across these diverse life stories, Brainer uses a feminist materialist framework to illuminate struggles for personal and sexual autonomy in the intimate context of family and home.

Acute kidney injury (AKI) is a frequent clinical syndrome among hospitalized patients, independently associated with both short- and long-term mortality. Previous investigations attempted to identify effective interventions to prevent AKI or promote kidney function recovery in patients with AKI. Most were unsuccessful. Hence, additional studies are required in the field of AKI research. In this Special Issue, we are making a call to action to stimulate researchers and clinicians to submit their studies on AKI conducted in nephrology, internal medicine, critical care, and other disciplines that will provide additional knowledge and skills in the field of AKI research, ultimately to improve patient outcomes.

Can constitutional amendments be unconstitutional? The problem of 'unconstitutional constitutional amendments' has become one of the most widely debated issues in comparative constitutional theory, constitutional design, and constitutional adjudication. This book describes and analyses the increasing tendency in global constitutionalism to substantively limit formal changes to constitutions. The challenges of constitutional unamendability to constitutional theory become even more complex when constitutional courts enforce such limitations through substantive judicial review of amendments, often resulting in the declaration

that these constitutional amendments are 'unconstitutional'. Combining historical comparisons, constitutional theory, and a wide comparative study, Yaniv Roznai sets out to explain what the nature of amendment power is, what its limitations are, and what the role of constitutional courts is and should be when enforcing limitations on constitutional amendments.

Issues for 1973- cover the entire IEEE technical literature.

Mobile and Handheld Computing Solutions for Organizations and End-Users discusses a broad range of topics in order to advance handheld knowledge and apply the proposed methods to real-world issues for organizations and end users. This book brings together researchers and practitioners involved with mobile and handheld computing solutions useful for IT students, researchers, and scholars.

Even though video compression has become a mature field, a lot of research is still ongoing. Indeed, as the quality of the compressed video for a given size or bit rate increases, so does users' level of expectations and their intolerance to artefacts. The development of compression technology has enabled number of applications; key applications in television broadcast field. Compression technology is the basis for digital television. The "Video Compression" book was written for scientists and development engineers. The aim of the book is to showcase the state of the art in the wider field of compression beyond encoder centric approach and to appreciate the need for video quality assurance. It covers compressive video coding, distributed video coding, motion estimation and video quality.

This book offers a global perspective of the current state of affairs in the field of solar power engineering. In four parts, this well-researched volume informs about: Established solar PV (photovoltaic) technologies Third-generation PV technologies based on new materials with potential for low-cost large-scale production Solar cell technology based

This book explores the crisis of cultural identity which has assaulted Asian countries since Western countries began to have a profound impact on Asia in the nineteenth century. Confronted by Western 'civilization' and by 'modernity', Asian countries have been compelled to rethink their identity, and to consider how they should relate to Western 'civilization' and 'modernity'. The result, the author argues, has been a redefining by Asian countries of their own character as nations, and an adaptation of 'civilization' and 'modernity' to their own special conditions. Asian nations, the author contends, have thereby engaged with the West and with modernity, but on their own terms, occasionally, and in various inconsistent ways in which they could assert a sense of difference, forcing changes in the Western concept of civilization. Drawing on postmodern theory, the Kyoto School, Confucian and other traditional Asian thought, and the actual experiences of Asian countries, especially China and Japan, the author demonstrates that Asian countries' redefining of the concept of civilization in the course of their quest for an appropriate postmodern national identity is every bit as key a part of 'the rise of Asia' as economic growth or greater international political activity.

This book introduces the fundamental concepts, methods, and applications of Hausdorff calculus, with a focus on its applications in fractal systems. Topics such as the Hausdorff diffusion equation, Hausdorff radial basis function, Hausdorff derivative nonlinear systems, PDE modeling, statistics on fractals, etc. are discussed in detail. It is an essential reference for researchers in mathematics, physics, geomechanics, and mechanics.

This balanced and deeply informed book provides a comprehensive account of China's Asia policy since the Cold War. Lowell Dittmer traces the PRC's policy toward its Asian neighbors in the context of the country's move from a developing nation to a great power, capable of playing a role in world politics commensurate with its remarkable economic rise. The author considers China's bilateral relations with Russia, Central Asia, South and Southeast Asia, and Australia. Each of these relationships is also viewed in terms of China's rivalry with the United States, which has viewed China's rise with admiration tinged with a certain foreboding. Thus, Dittmer employs a triangular analysis to understand Beijing's attempt to expand in Asia while at the same time deterring Washington's interference. Reframing the international relations of Asia in a thought-provoking and informed manner, this important book presents a panoramic view of the dynamics at work on all sides of China.

Nanomaterials contain some unique properties due to their nanometric size and surface functionalization. Nanomaterial functionalization also affects their compatibility to biocompatibility and toxicity behaviors. environment and living organism. This makes functionalized nanomaterials a material with huge scope and few challenges. This book provides detailed information about the nanomaterial functionalization and their application. Recent advancements, challenges and opportunities in the preparation and applications of functionalized nanomaterials are also highlighted. This book can serve as a reference book for scientific investigators, doctoral and post-doctoral scholars; undergrad and grad. This book is very useful for multidisciplinary researchers, industry personnel's, journalists, and policy makers. Features: Covers all aspects of Nanomaterial functionalization and its applications Describes and methods of functionalized nanomaterials synthesis for different applications Discusses the challenges, recent findings, and cutting-edge global research trends on functionalization of nanomaterials and its applications It discusses the regulatory frameworks for the safe use of functionalized nanomaterials. It contains contributions from international experts from multiple disciplines.

In this 2012 edition of Advances in Knowledge-Based and Intelligent Information and Engineering Systems the latest innovations and advances in Intelligent Systems and related areas are presented by leading experts from all over the world. The 228 papers that are included cover a wide range of topics. One emphasis is on Information Processing, which has become a pervasive phenomenon in our civilization. While the majority of Information Processing is becoming intelligent in a very broad sense, major research in Semantics, Artificial Intelligence and Knowledge Engineering supports the domain specific applications that are becoming more and more present in our everyday living. Ontologies play a major role in the development of Knowledge Engineering in various domains, from Semantic Web down to the design of specific Decision Support Systems. Research on Ontologies and their applications is a highly active front of current Computational Intelligence science that is addressed here. Other subjects in this volume are modern Machine Learning, Lattice Computing and Mathematical Morphology. The wide scope and high quality of these contributions clearly show that knowledge engineering is a continuous living and evolving set of technologies aimed at improving the design and understanding of systems and their relations with humans. "This book focuses on information technology using sustainable green computing to reduce energy and resources used"--Provided by publisher.

In her extensively researched exploration of China in British children's literature, Shih-Wen Chen provides a sustained critique of the reductive dichotomies that have limited insight into the cultural and educative role these fictions played in disseminating ideas and knowledge about China. Chen considers a range of different genres and types of publication-travelogue storybooks, historical novels, adventure stories, and periodicals-to demonstrate the diversity of images of China in the Victorian and Edwardian imagination. Turning a critical eye on popular and prolific writers such as Anne Bowman, William Dalton, Edwin Harcourt Burrage, Bessie Marchant, G.A. Henty, and Charles Gilson, Chen shows how Sino-British relations were influential in the representation of China in children's literature, challenges the notion that nineteenth-century children's literature simply parroted the dominant ideologies of the age, and offers insights into how attitudes towards children's relationship with knowledge changed over the course of the century. Her book provides a fresh context for understanding how China was constructed in the period from 1851 to 1911 and sheds light on British cultural history and the history and uses of children's literature.

China's rapid economic growth, modernization and globalization have led to astounding social changes. Contemporary China provides a fascinating portrayal of society and social change in the contemporary People's Republic of China. This book introduces readers to key sociological perspectives, themes and debates about Chinese society. It explores topics such as family life, citizenship, gender, ethnicity, labour, religion, education, class and rural/urban inequalities. It considers China's imperial past, the social and institutional legacies of the Maoist era, and the momentous forces shaping it in the present. It also emphasises diversity and multiplicity, encouraging readers to consider new perspectives and rethink Western stereotypes about China and its people. Real-life case studies illustrate the key features of social relations and change in China. Definitions of key terms, discussion questions and lists of further reading help consolidate learning. Including full-colour maps and photographs, this book offers remarkable insight into Chinese society and social change.

From carbon fibre racing bikes to 'sharkskin' swimsuits, the application of cutting-edge design, technology and engineering has proved to be a vital ingredient in enhanced sports performance. This is the first book to offer a comprehensive survey of contemporary sports technology and engineering, providing a complete overview of academic, professional and industrial knowledge and technique. The book is divided into eight sections covering the following topics : Sustainable Sports Engineering Instrumentation Technology Summer Mobility Sports Winter Mobility Sports Apparel and Protection Equipment Sports Implements (racquets, clubs, bats, sticks) Sports Balls Sports Surfaces and Facilities Written by an international team of leading experts from industry, academia and commercial research institutes, the emphasis throughout the book is on innovation, the relationship between business and science, and the improvement of sports performance. This is an essential reference for anybody working in sports technology, sports product design, sports engineering, biomechanics, ergonomics, sports business or applied sport science.

The Chinese Research Institute of Construction Management (CRIOCM) in collaboration with Xi'an Jiaotong University proudly invites all academics, researchers and professionals to participate in the CRIOCM 2013, the 18th International Symposium on "Advancement of Construction Management and Real Estate". We will uphold and preserve the idea and tradition of pragmatism and innovation, to offer an excellent academic and communication platform for academics and professionals to exchange information on the latest developments in real estate and construction management.

In A Transnational Human Rights Approach to Human Trafficking, Yoon Jin Shin proposes an innovative and comprehensive human rights framework to human trafficking, to empower victimized individuals as rights-holders, overcoming the current regime's state-interest-driven border and crime control approach.

This study analyzes several passages in the Former Prophets (2 Sam 19:12-44; 2 Kgs 2:1-18; Judg 8:4-28) from a literary perspective, and argues that the text presents Transjordan as liminal in Israel's history, a place from which Israel's leaders return with inaugurated or renewed authority. It then traces the redactional development of Samuel-Kings that led to this literary symbolism, and proposes a hypothesis of continual updating and combination of texts, beginning early in Israel's monarchy and continuing until the final formation of the Deuteronomistic History. Several source documents ma.

These days, it's rare to pick up a newspaper and not see a story related to intelligence. From the investigations of the 9/11 commission, to accusations of illegal wiretapping, to debates on whether it's acceptable to torture prisoners for information, intelligence—both accurate and not—is driving domestic and foreign policy. And yet, in part because of its inherently secretive nature, intelligence has received very little scholarly study. Into this void comes *Reforming Intelligence*, a timely collection of case studies written by intelligence experts, and sponsored by the Center for Civil-Military Relations (CCMR) at the Naval Postgraduate School, that collectively outline the best practices for intelligence services in the United States and other democratic states. *Reforming Intelligence* suggests that intelligence is best conceptualized as a subfield of civil-military relations, and is best compared through institutions. The authors examine intelligence practices in the United States, United Kingdom, and France, as well as such developing democracies as Brazil, Taiwan, Argentina, and Russia. While there is much more data related to established democracies, there are lessons to be learned from states that have created (or re-created) intelligence institutions in the contemporary political climate. In the end, reading about the successes of Brazil and Taiwan, the failures of Argentina and Russia, and the ongoing reforms in the United States yields a handful of hard truths. In the murky world of intelligence, that's an unqualified achievement. Pivotal to Asia's future will be the robustness of its medical universities. Lessons learned in the past and the challenges facing these schools in the future are outlined in this collection, which offers valuable insights for other medical education systems as well. The populations in these rapidly growing countries rely on healthcare systems that can vigorously respond to the concerns of shifting demographics, disease, and epidemics. The collected works focus on the education of physicians and health professionals, policy debates, cooperative efforts, and medical education reform movements.

Fluorescence reporter is the key element of any sensing or imaging technology. Its optimal choice and implementation is very important for increasing the sensitivity, precision, multiplexing power, and also the spectral, temporal, and spatial resolution in different methods of research and practical analysis. Therefore, design of fluorescence reporters with advanced properties is one of the most important problems. In this volume, top experts in this field provide advanced knowledge on the design and properties of fluorescent dyes. Organic dyes were the first fluorescent materials used for analytical purposes, and we observe that they retain their leading positions against strong competition of new materials – conjugated polymers, semiconductor nanocrystals, and metal chelating complexes. Recently, molecular and cellular biology got a valuable tool of organic fluorophores synthesized by cell machinery and incorporated into green fluorescent protein and its analogs. Demands of various fluorescence techniques operating in spectral, anisotropy, and time domains require focused design of fluorescence reporters well adapted to these techniques. Near-IR spectral range becomes more and more attractive for various applications, and new dyes emitting in this range are strongly requested. Two-photon fluorescence has become one of the major tools in bioimaging, and fluorescence reporters well adapted to this technique are in urgent need. These problems cannot be solved without the knowledge of fundamental principles of dye design and of physical phenomena behind their fluorescence response.

An index to library and information science literature.

This book of text, cases and materials from Asia is designed for scholars and students of constitutional law and comparative constitutional law. The book is divided into 11 chapters, arranged thematically around key ideas and controversies, enabling the reader to work through the major facets of constitutionalism in the region. The book begins with a lengthy introduction that critically examines the study of constitutional orders in 'Asia', highlighting the histories, colonial influences, and cultural particularities extant in the region. This chapter serves both as a provisional orientation towards the major constitutional developments seen in Asia – both unique and shared with other regions – and as a guide to the controversies encountered in the study of constitutional law in Asia. Each of the following chapters is framed by an introductory essay setting out the issues and succinctly highlighting critical perspectives and themes. The approach is one of 'challenge and response', whereby questions of constitutional importance are posed and the reader is then led, by engaging with primary and secondary materials, through the way the various Asian states respond to these questions and challenges. Chapter segments are accompanied by notes, comments and questions to facilitate critical and comparative analysis, as well as recommendations for further reading. The book presents a representative range of Asian materials from jurisdictions including: Bangladesh, China, Hong Kong, India, Japan, Mongolia, Nepal, Pakistan, South Korea, Sri Lanka, Taiwan, Timor-Leste and the 10 ASEAN states.

This book highlights how terpenoids act as biological messengers and can be used as medicine against liver disease, neurodegenerative disease, cancer, infectious disease, cardiovascular disease, and inflammatory diseases. It emphasizes the metabolic engineering approach of terpenoids production and their toxicity.

Through their application in energy-efficient and environmentally friendly devices, zinc oxide (ZnO) and related classes of wide gap semiconductors, including GaN and SiC, are revolutionizing numerous areas, from lighting, energy conversion, photovoltaics, and communications to biotechnology, imaging, and medicine. With an emphasis on engineering a

This comprehensive reference on the fundamentals of hemodialysis access creation and advanced management for maintenance is designed to meet the needs of all surgeons and physicians responsible for the treatment and care of patients undergoing dialysis. The book opens by discussing every aspect of dialysis access planning, including selection of the right access for the individual patient and access strategies. Hemodialysis access techniques, from the most basic to the most complex and unconventional, are then described step by step, and guidance is provided on follow-up. Detailed attention is also devoted to the challenging management of specific complications of dialysis access surgery, including failing hemodialysis access. The book includes a wealth of informative, high-quality images and illustrations, and the authors are prominent vascular surgeons, transplant surgeons, general surgeons, nephrologists, and interventional radiologists from across the United States.

The present volumes contain selected papers in the fields of Environmental Chemistry and Biology; Environmental Materials; Environmental Safety and Health; Environmental Planning and Assessment; Environmental Analysis and Monitoring; Environmental Engineering; Pollution Control Projects (Air, Water, Solid); Waste Disposal and Recycling; Water Supply and Drainage Engineering; Sound, Noise and Vibration Control; Clean Production Processes; Hydrology and Water Resources Engineering; Architectural Environment & Equipment Engineering; Soil and Water Conservation and Desertification Control; Environmental Protection; Cultivation and Conservation of Forest; Plant Protection and Biotechnology; Geographic Information and Remote Sensing Science; Land Resources Environment and Urban Planning. This up-to-date, comprehensive and worldwide state-of-the art knowledge will be of great value to anyone working in these fields.

This proceedings is a representation of decades of research, teaching and application in the field. Image Processing, Fusion and Information Technology areas, Digital radio Communication, Wimax, Electrical engg, VLSI approach to processor design, embedded systems design are dealt in detail through models and illustrative techniques.

This collection examines the historically and geographically specific form of economic organization of the overseas Chinese in Southeast Asia and how it has adapted to the different historical and socio-political contexts of Southeast Asian countries. Moving beyond cultural explanations and traits to focus on the process of evolution and dynamism of situated practices, it argues that Chinese Capitalism is rapidly becoming a form of 'hybrid capitalism' and embodies the interdependent of culturally and institutionally specific dynamics at local and regional level, evolving and adapting to different institutional contexts and politico-economic conditions in the host Asian economies. This text also explores the social organization and political economy of the so-called overseas Chinese by examining the changing dynamism of Chinese capitalism in relation to forces of globalization.

Focusing on key actors, primarily Chinese entrepreneurs in their business practices, and situated practices as well as cultural, political, social and economic factors under globalizing conditions, it provides providing a broad understanding without fixating or homogenizing Chinese capitalism, contributing to the understanding of the contexts that give rise to the emergence and transformation of Chinese Capitalism in Southeast Asia.

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