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The term "neuromechanics" defines an integrative approach that combines the neuromuscular control and the biomechanical aspects of physical behavior in humans and animals. Crucial to this approach is a detailed description and modeling of the interaction between the nervous system and the controlled biomechanical plant. Only then do we have the broader context within which to understand evolution, movement mechanics, neural control, energetics, disability and rehabilitation. In addition to enabling new basic science directions, understanding the interrelations between movement neural and mechanical

function should also be leveraged for the development of personalized wearable technologies to augment or restore the motor capabilities of healthy or impaired individuals. Similarly, this understanding will empower us to revisit current approaches to the design and control of robotic and humanoid systems to produce truly versatile human-like physical behavior and adaptation in real-world environments. This Research Topic is therefore poised at an opportune moment to promote understanding of apparently disparate topics into a coherent focus. "This book consists of one hundred and nine selected papers presented at the 2015 International Conference on Materials Engineering and Environmental Science (MEES2015), which was successfully held in Wuhan, China during September 25-27, 2015. All papers selected for this proceedings were subjected to a rigorous peer-review process by at least two independent peers. The papers were selected based on innovation, organization, and quality of presentation. The MEES2015 covered a wide spectrum of research topics, ranging from fundamental studies, technical innovations, to industrial applications in Chemical Material and Chemical Processing Technology, Composite Materials, Alloy Materials and Metal Materials, Characteristics of Materials, Building Material and Construction Technology, Ecology and Environment, Technology for Environmental Protection, Economy and Environment, Mechanical and Control Engineering, and Manufacturing Technology. The MEES2015 brought together more than one hundred researchers from China, South Korea, Taiwan, Japan, Malaysia, and Saudi Arabia, and provided them with a forum to share, exchange and discuss new scientific development and future directions of Materials Engineering and Environmental Science."--Provided by publisher This book gathers outstanding research papers presented at the 5th International Joint Conference on Advances in Computational Intelligence (IJCACI 2021), held online during October 23-24, 2021. IJCACI 2021 is jointly organized by Jahangirnagar University (JU), Bangladesh, and South Asian University (SAU), India. The book presents the novel contributions in areas of computational intelligence and it serves as a reference material for advance research. The topics covered are collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing. "Examines the air power experience of a selected range of European countries since the collapse of the Soviet Union and the Gulf War of 1991. The study offers an assessment of key issues influencing the evolution of air power in continental Europe. Amongst the main challenges are deployed operations, the intellectual grasp of air power doctrine, and the imbalance between combat aircraft and force enablers. Regarding the latter, the development of common capabilities that are equally available to both NATO and the European

Union is crucial."--P. [4] of cover. In *Making Dystopia*, distinguished architectural historian James Stevens Curl tells the story of the advent of architectural Modernism in the aftermath of the First World War, its protagonists, and its astonishing, almost global acceptance after 1945. He argues forcefully that the triumph of architectural Modernism in the second half of the twentieth century led to massive destruction, the creation of alien urban landscapes, and a huge waste of resources. Moreover, the coming of Modernism was not an inevitable, seamless evolution, as many have insisted, but a massive, unparalleled disruption that demanded a clean slate and the elimination of all ornament, decoration, and choice. Tracing the effects of the Modernist revolution in architecture to the present, Stevens Curl argues that, with each passing year, so-called 'iconic' architecture by supposed 'star' architects has become more and more bizarre, unsettling, and expensive, ignoring established contexts and proving to be stratospherically remote from the aspirations and needs of humanity. In the elite world of contemporary architecture, form increasingly follows finance, and in a society in which the 'haves' have more and more, and the 'have-nots' are ever more marginalized, he warns that contemporary architecture continues to stack up huge potential problems for the future, as housing costs spiral out of control, resources are squandered on architectural bling, and society fractures. This courageous, passionate, deeply researched, and profoundly argued book should be read by everyone concerned with what is around us. Its combative critique of the entire Modernist architectural project and its apologists will be highly controversial to many. But it contains salutary warnings that we ignore at our peril. And it asks awkward questions to which answers are long overdue. This second edition of *Increasing Multicultural Understanding* has been revised and updated. Locke presents a model which helps counsellors understand culturally different groups and the role culture plays in shaping the way people think, feel and act. This handbook gathers together the state of the art on mathematical models and algorithms for imaging and vision. Its emphasis lies on rigorous mathematical methods, which represent the optimal solutions to a class of imaging and vision problems, and on effective algorithms, which are necessary for the methods to be translated to practical use in various applications. Viewing discrete images as data sampled from functional surfaces enables the use of advanced tools from calculus, functions and calculus of variations, and nonlinear optimization, and provides the basis of high-resolution imaging through geometry and variational models. Besides, optimization naturally connects traditional model-driven approaches to the emerging data-driven approaches of machine and deep learning. No other framework can provide comparable accuracy and precision to imaging and vision. Written by leading researchers in imaging and vision, the chapters in this handbook all start with gentle introductions, which make this work accessible to graduate students. For newcomers to the field, the book provides a comprehensive and fast-track introduction to the content, to save time and get on with tackling new and emerging

challenges. For researchers, exposure to the state of the art of research works leads to an overall view of the entire field so as to guide new research directions and avoid pitfalls in moving the field forward and looking into the next decades of imaging and information services. This work can greatly benefit graduate students, researchers, and practitioners in imaging and vision; applied mathematicians; medical imagers; engineers; and computer scientists. Revises and updates the *Directory of Energy Information Administration Models 1995*. Contains descriptions about each model, including the title, acronym, purpose, followed by more detailed information on characteristics, uses and requirements. The models are: market penetration model for ground-water heat pump systems; market penetration model for residential rooftop PV systems; market penetration model for active and passive solar technologies; and revenue requirements modeling system. This book constitutes the thoroughly revised selected papers from the 18th International Symposium, FACS 2022, which was held online in November 2022. The 12 full papers and 1 short paper were carefully reviewed and selected from 25 submissions. FACS 2021 is focusing on the areas of component software and formal methods in order to promote a deeper understanding of how formal methods can or should be used to make component-based software development succeed. This book proposes a new capital asset pricing model dubbed the ZCAPM that outperforms other popular models in empirical tests using US stock returns. The ZCAPM is derived from Fischer Black's well-known zero-beta CAPM, itself a more general form of the famous capital asset pricing model (CAPM) by 1990 Nobel Laureate William Sharpe and others. It is widely accepted that the CAPM has failed in its theoretical relation between market beta risk and average stock returns, as numerous studies have shown that it does not work in the real world with empirical stock return data. The upshot of the CAPM's failure is that many new factors have been proposed by researchers. However, the number of factors proposed by authors has steadily increased into the hundreds over the past three decades. This new ZCAPM is a path-breaking asset pricing model that is shown to outperform popular models currently in practice in finance across different test assets and time periods. Since asset pricing is central to the field of finance, it can be broadly employed across many areas, including investment analysis, cost of equity analyses, valuation, corporate decision making, pension portfolio management, etc. The ZCAPM represents a revolution in finance that proves the CAPM as conceived by Sharpe and others is alive and well in a new form, and will certainly be of interest to academics, researchers, students, and professionals of finance, investing, and economics. Drawing the attention of tourists to different destinations around the world assists in the overall economic health of the targeted region by increasing revenue and attracting investment opportunities, as well as increasing cultural awareness of the area's population. *Strategic Branding Methodologies and Theory for Tourist Attraction* investigates international perspectives and promotional strategies in the

topic area of place branding. Highlighting theoretical concepts and marketing techniques being utilized in the endorsement of various destinations, regions, and cities around the world, this publication is a pivotal reference source for researchers, practitioners, policy makers, students, and professionals. The chapters in this book deal with different, though related, topics concerning the tense relationship between democracy and diversity. On the one hand, social diversity represents an opportunity, widening the horizon of social options and perspectives of innovation, but, on the other hand, it creates problems for the social cohesion and peaceful coexistence of many groups, be they majority or minority. The chapters depart from the intrinsic connection between democracy and diversity - and the unavoidable challenges that pluralism poses to decision-making procedures - investigating, from different perspectives, how the normative requirement of fully respecting agents' reflexive agency impacts the revision of democratic decision-making procedures and the way in which institutions react to citizens' justice-based claims. All the contributions share the theoretical insight that diversity is one of the *raison d'être* of democracy, and, still, all acknowledge that the fact of pluralism poses challenges to the legitimacy of democratic procedures of decision-making. Indeed, if citizens had the same values and preferences, collective decisions would be easily achieved and the institution of democratic procedures would be redundant. Yet the wide pluralism of doctrines, habits, social standards, and conceptions of the goods typical of contemporary societies has often led citizens to challenge the legitimacy of democratic decisions because these choices do not fit their preferences or values. To address these challenges following recent accounts of democratic decision-making, in this volume, different strategies are introduced, defended, and criticized in order to outline a perspective that is able to guide actual decision-making processes (guidance), define standards that everyone has equal opportunity to fulfil (inclusion), and grant that citizens exercise their reflexive control on the whole democratic system (reflexivity). The chapters in this book were originally published as a special issue of the *Critical Review of International Social and Political Philosophy*. This volume provides the reader with an overview of the diverse functions of the RUNX family of genes. As highlighted in the introduction and several of the 29 chapters, humans and other mammals have three RUNX genes that are known to play specific roles in blood, bone and neuronal development. However, their evolutionary history has recently been traced back to unicellular organisms and their involvement in many well-known signaling pathways (Wnt, TGF β , Notch, Hippo) is indicative of a more general function in cell biology. Their documented roles in cell fate decisions include control of proliferation, differentiation, survival, senescence and autophagy. The pleiotropic effects of RUNX in development are mirrored in cancer, where RUNX genes can function as oncogenes that collaborate strongly with Myc family oncogenes or as tumour suppressor genes. In the latter role, they display hallmarks of both 'gatekeepers' that modulate p53

responses and 'caretakers' that protect the genome from DNA damage. Several chapters focus on the importance of these genes in leukemia research, where RUNX1 and CBFβ are frequently affected by chromosomal translocations that generate fusion oncoproteins, while recent studies suggest wider roles for RUNX modulation in solid cancers. Moreover, RUNX genes are intimately involved in the development and regulation of the immune system, while emerging evidence suggests a role in innate immunity to infectious agents, including HIV. At the biochemical level, the RUNX family can serve as activators or repressors of transcription and as stable mediators of epigenetic memory through mitosis. Not surprisingly, RUNX activity is controlled at multiple levels, this includes miRNAs and a plethora of post-translational modifications. Several chapters highlight the interplay between the three mammalian RUNX genes, where cross-talk and partial functional redundancies are evident. Finally, structural analysis of the RUNX/CBFβ interaction has led to the development of small molecule inhibitors that provide exciting new tools to decipher the roles of RUNX in development and as targets for therapy. This volume provides a compendium and reference source that will be of broad interest to cancer researchers, developmental biologists and immunologists. Makes performance analysis and queuing theory concepts simple to understand and available to anyone with a background in high school algebra Presents the practical application of these concepts in the context of modern, distributed, computer system designs Packed with helpful examples that are based on the author's experience analyzing the performance of large-scale systems over the past 20 years. This book describes procedures for determining the total hydrocarbon (petroleum) resource or resource potential in a region. Statistical concepts and methods employed in petroleum resource assessment are the subject of the manuscript, extensively illustrated by numerous real case studies. Although the PETRIMES methodology is so widely used, there is no 'user's guide' to it, and this book will be the definitive resource for PETRIMES users. The vintage motorcycle market is alive and vibrant, with more and more enthusiasts buying and selling vintage bikes - some for investment and some for pure enjoyment. The Price Guide, published every two years, includes comprehensive data for dozens of brands worldwide. It covers all models for the years 1901 through 1996. Designed by enthusiasts for enthusiasts, the Guide opens with an overview of which bikes are hot and which are not, with commentary by vintage motorcycle experts on why prices are changing as they are. It also includes a guide to show how each price grade is defined and how to recognize which grade a particular bike belongs in. Prices are derived from actual sales between knowledgeable enthusiasts and are given for six quality grades, ranging from rat-bike to like-new. Unlike price guides used by insurance companies to establish motorcycle values, this Guide is based on actual purchase prices tallied from recent auctions, major motorcycle exchange meets, and internet sales. Printed in a handy pocket-size, this is the perfect companion to have with you at the next

motorcycle auction you attend or when you find that rare specimen in the back of the neighbor's barn. Just one insight gained from this price guide on your next sale or purchase will earn back many times the book's cost. Parallaxic Praxis is a research framework utilized by interdisciplinary teams to collect, interpret, transmediate, analyze, and mobilize data generatively. The methodology leverages the researchers' personal strengths and the collective expertise of the team including the participants and community when possible. Benefits include the use of multi-perspective analyses, multi-modal investigations, informal and directed dialogic conversations, innovative knowledge creation, and models of residual and reparative research. Relying on difference, dialogue, and creativity propulsion processes; and drawing on post-qualitative, new materiality, multiliteracies, and combinatorial, even juxtaposing theoretical frames; this model offers extensive research possibilities across disciplines and content areas to mobilize knowledge to broad audiences. This book explains methods, theories, and perspectives, and provides examples for developing creative research design in order to innovate new understandings. This model is especially useful for interdisciplinary partnerships or cross-sector collaborations. This book specifically addresses issues of research design, methodology, knowledge generation, knowledge mobilization, and dissemination for academics, students, and community partners. Examples include possibilities for scholars interested in doing projects in social justice, community engagement, teacher education, Indigenous research, and health and wellness. ASR Index is a complete and detailed index of everything that has appeared in the Antique Studebaker Review magazine since its inception in 1971. Of greatest importance are the advice items that are indexed by subject (engines, brakes, steering, etc.). Historical items are also indexed by subject as well as by the vehicle (model and year) they relate to. If you own, for instance, a 1939 Champion, ASR Index will give you instant access to everything that has been published about your car and much more. Indexed by model, year, AND subject matter, ASR Index is detailed and comprehensive, making it easy to find the information you need. Each listing, of course, refers you to the specific issue of Antique Studebaker Review and cites the page on which the item begins. ASR Index includes issues of Antique Studebaker Review from 1971 through 2019 by subject, model, and year. It contains more than 4,300 references on 55 pages. This book discusses the impact of climate change, land use and land cover, and socio-economic dynamics on landslides in Asian countries. Scholars recently have brought about a shift in their focus regarding triggering factors for landslides, from rainfall or earthquake to claiming rapid urbanization, extreme population pressure, improper land use planning, illegal hill cutting for settlements and indiscriminate deforestation. This suggests that the occurrence or probabilities of landslides are shaped by both climate-related and non-climate-related anthropogenic factors. Among these issues, land use and land cover change or improper land use planning is one of the key factors. Further climate change shapes the

rainfall pattern and intensity in different parts of the world, and consequently rainfall-triggered landslides have increased. These changes cause socio-economic changes. Conversely, socio-economic and lifestyle changes enhance inappropriate land use and climate change. All these changes in land use, climate and socio-economic aspects are dynamics in nature and shape landslide risks in Asian countries, where they are given serious attention by governments, disaster management professionals, researchers and academicians. This book comprises 21 chapters divided into three major sections highlighting the effect of climate change on landslide incidence with the influence on vegetation and socio-economic aspects. The sections address how climate change and extreme events have triggered landslides. The advances in geospatial techniques with the focus on land use and land cover change along with the effect on socio-economic aspects are also explored. Groundwater resources are facing increasing pressure from consuming and contaminating activities. There is a growing awareness that the quantitative and qualitative preservation of groundwater resources is a global need, not only to safeguard their future use for public supply and irrigation, but also to protect those ecosystems that depend partial If you are seeking a comprehensive reference for collectible gun values, the Gun Trader's Guide is the only book you need. For more than half a century, this guide has been the standard reference for collectors, curators, dealers, shooters, and gun enthusiasts. Updated annually, it remains the definitive source for making informed decisions on used firearms purchases. Included are extensive listings for handguns, shotguns, and rifles from some of the most popular manufacturers, including Beretta, Browning, Colt, Remington, Savage, Smith & Wesson, Winchester, and many more. This thirty-eighth edition boasts dozens of new entries since last year's edition and includes a complete index and a guide on how to properly and effectively use this book in order to find the market value for your collectible modern firearm. Determine the new prices for any firearm you want to sell or trade, whether its condition is in box, excellent, or good. With new introductory materials that every gun collector and potential buyer should read, this book is the ultimate guide to purchasing classic or discontinued firearms. No matter what kind of modern firearm you own or collect, the Gun Trader's Guide should remain close at hand. Skyhorse Publishing is proud to publish a broad range of books for hunters and firearms enthusiasts. We publish books about shotguns, rifles, handguns, target shooting, gun collecting, self-defense, archery, ammunition, knives, gunsmithing, gun repair, and wilderness survival. We publish books on deer hunting, big game hunting, small game hunting, wing shooting, turkey hunting, deer stands, duck blinds, bowhunting, wing shooting, hunting dogs, and more. While not every title we publish becomes a New York Times bestseller or a national bestseller, we are committed to publishing books on subjects that are sometimes overlooked by other publishers and to authors whose work might not otherwise find a home. Uri Savir has an ambitious, indispensable goal: to bring peacemaking into

the 21st century. "Little in today's world," writes Savir, "is more progressive than modern warfare. Yet little is more archaic than peacemaking." We remain trapped in a centuries-old mindset, with leaders bargaining warily for concessions and signing treaties that collapse because no one on the ground has any real stake in them. Drawing on his experiences negotiating the Oslo Peace Accords as well as on trenchant examples from Ethiopia, Eritrea, Rwanda, Sierra Leone, Afghanistan, India, Pakistan, Northern Ireland, and the former Yugoslavia, Savir argues that an enduring peace is built from the bottom up, not from the top down. He describes a new model based on establishing and nurturing mutually beneficial forms of cooperation beginning on the local level, city to city and organization to organization. This process of "glocalization"—involving local actors in global issues—is the first step toward constructing a peace ecology: a comprehensive transnational culture dedicated to breaking down the psychological and social barriers between former enemies. These efforts are furthered through the establishment of joint ventures that give each side a tangible stake in maintaining peace. Diplomacy still has a role, but it must reject maneuvering for gain and instead emphasize the advantages both sides will gain with the cultivation of lasting peace. Throughout Savir provides concrete examples of how these concepts have been put into practice. And he ends with a detailed vision of how this model could bring an enduring peace in one of the world's most war-torn areas: the Mediterranean Basin. *Peace First* offers a pragmatic yet revolutionary new approach that promises to end our most intractable conflicts. When governments impose stringent regulations that impede domestic competition and international trade, should we conclude that this is a deliberate attempt to protect industry or an honest effort to protect the population? *Regulating Risk* offers a third possibility: that these regulations reflect producers' ability to exploit private information. Combining extensive data and qualitative evidence from the pesticide, pharmaceutical, and chemical sectors, the book demonstrates how companies have exploited product safety information to win stricter standards on less profitable products for which they offer a more profitable alternative. Companies have additionally supported regulatory institutions that, while intended to protect the public, also help companies use information to eliminate less profitable products more systematically, creating barriers to commerce that disproportionately disadvantage developing countries. These dynamics play out not only domestically but also internationally, under organizations charged with providing objective regulatory recommendations. The result has been the global legitimization of biased regulatory rules. This edited collection on international commercial and investment disputes in, and with, India examines past and present landmark legislative and regulatory reforms initiated by the Indian government, including the 2015 new Bilateral Investment Treaty (BIT) model, the 2015 amendments to the 1996 Arbitration Act and the 2013 amendments to Section 135 of the Companies Act on Corporate Social Responsibility (CSR),

as well as the most recent amendments to the same. The book also includes recent developments in the dispute resolution arena, regional, and international negotiations involving India, the legal profession's response to these developments, and civil society's comments. In addition, it addresses contemporary problems of key importance and at the centre of today's discussions, from the legitimacy and relevance of Investor-State Dispute Settlement (ISDS) to the denunciation of Bilateral Investment Treaties (BITs), and the role arbitration should play in emerging economies now leaders in world trade. In creating bridges between commercial and investment arbitration, it also renews the conceptual approach to these too often artificially isolated fields of law. The volume provides an accurate and updated account of the many fascinating conceptual and practical evolutions, which already impact the world of international dispute resolution far beyond the borders of India. This unique and exhaustive study will be of great appeal to a vast range of readers from practitioners to academia. This volume puts forth an original theoretical framework, the ludonarrative model, for studying video games which foregrounds the empirical study of the player experience. The book provides a comprehensive introduction to and description of the model, which draws on theoretical frameworks from multimodal discourse analysis, game studies, and social semiotics, and its development out of participant observation and qualitative interviews from the empirical study of a group of players. The volume then applies this approach to shed light on how players' experiences in a game influence how they understand and make use of game components in order to progress its narrative. The book concludes with a frame by frame analysis of a popular game to demonstrate the model's principles in action and its subsequent broader applicability to analyzing video game interaction and design. Offering a new way forward for video game research, this volume is key reading for students and scholars in multimodality, discourse analysis, game studies, interactive storytelling, and new media. Analysing political discourse in the British press during a time of crisis and austerity, this book examines how the concept of the welfare state has been constructed between 2008 and 2015. At a time when the financial crisis and government policies have put the welfare state under increased pressure, a corpus from four British newspapers from across the political spectrum - the Guardian, Daily Mirror, Daily Mail, and Daily Telegraph - is brought together to investigate the political debate on its evaluation and the ambiguity about its exact definition. Combining two theoretical approaches, Malgorzata Paprota outlines the figurative models and scenarios relevant to this element of the political system. The discourse-historical approach to discourse analysis is used to establish what the welfare state is, tracing the boundaries of the concept and which elements of political reality are explicitly associated with it. Conceptual metaphor theory is then used to explore the figurative conceptualisations of the welfare state. Together, this book shows the discursive construction, and shifting boundaries and

metaphors, of the welfare state by the British press and its use in current political debates. This handbook focuses on the enormous literature applying statistical methodology and modelling to environmental and ecological processes. The 21st century statistics community has become increasingly interdisciplinary, bringing a large collection of modern tools to all areas of application in environmental processes. In addition, the environmental community has substantially increased its scope of data collection including observational data, satellite-derived data, and computer model output. The resultant impact in this latter community has been substantial; no longer are simple regression and analysis of variance methods adequate. The contribution of this handbook is to assemble a state-of-the-art view of this interface. Features: An internationally regarded editorial team. A distinguished collection of contributors. A thoroughly contemporary treatment of a substantial interdisciplinary interface. Written to engage both statisticians as well as quantitative environmental researchers. 34 chapters covering methodology, ecological processes, environmental exposure, and statistical methods in climate science. *Identity in Animation: A Journey into Self, Difference, Culture and the Body* uncovers the meaning behind some of the most influential characters in the history of animation and questions their unique sense of who they are and how they are formed. Jane Batkin explores how identity politics shape the inner psychology of the character and their exterior motivation, often buoyed along by their questioning of 'place' and 'belonging' and driven by issues of self, difference, gender and the body. Through this, *Identity in Animation* illustrates and questions the construction of stereotypes as well as unconventional representations within American, European and Eastern animation. It does so with examples such as the strong gender tropes of Japan's Hayao Miyazaki, the strange relationships created by Australian director Adam Elliot and Nick Park's depiction of Britishness. In addition, this book discusses Betty Boop's sexuality and ultimate repression, Warner Bros' anarchic, self-aware characters and Disney's fascinating representation of self and society. *Identity in Animation* is an ideal book for students and researchers of animation studies, as well as any media and film studies students taking modules on animation as part of their course. Addressing the need for marshaling the resources of education to help promote a more civil society, this book argues that education has a critical role to play in challenging the dominant views of politics and education. Service learning, or academically based community service, is seen as a promising educational pedagogy that can help students acquire civic virtue and serve as a mechanism to enable institutions of higher education become stronger community partners. However, there is currently a lack of theoretical grounding for the service-learning movement; consequently, service learning is in danger of being co-opted by academic traditionalism, which could vitiate service learning's social transformative potential and in fact undermine efforts at democratic revitalization. The author provides a basic explanation of service learning and how it

is connected to promoting civic virtue. It examines the underlying public philosophy debate between weak and strong democracy theorists, or procedural and civic republicanism. This book argues that certain

approaches to service learning, such as the voluntarist or charity model, the experiential education model, and the justice model are ineffective because of their association with weak democracy theory or procedural republicanism. The central argument of this

book is that a progressive communitarian public philosophy maintaining that individuals attain meaning and significance in the context of community is the most appropriate grounding for service learning.