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This timely volume combines experimental and theoretical research on big data recommender systems to help computer scientists develop new concepts and methodologies for complex applications. It includes original scientific contributions in the form of theoretical foundations, comparative analysis, surveys, case studies, techniques and tools. The authors give special attention to key topics such as data filtering and cleaning techniques for recommendations, novelty and diversity, privacy issues, security threats and their mitigation, trust, cold start, sparsity, scalability, application domains, and recommender system evaluations.

Peter Brett (1918–1975), Alice Erh-Soon Tay (1934–2004) and Geoffrey Sawer (1910–1996) are key, yet largely overlooked, members of Australia's first community of legal scholars. This book is a critical study of how their ideas and endeavours contributed to Australia's discipline of law and the first Australian legal theories. It examines how three marginal figures – a Jewish man (Brett), a Chinese woman (Tay), and a war orphan (Sawer) – rose to prominence during a transformative period for Australian legal education and scholarship. Drawing on in-depth interviews with former colleagues and students, extensive archival research, and an appraisal of their contributions to scholarship and teaching, this book explores the three professors' international networks and broader social and historical milieux. Their pivotal leadership roles in law departments at the University of Melbourne, University of Sydney, and the Australian National University are also critically assessed. Ranging from local experiences and the concerns of a nascent Australian legal academy to the complex transnational phenomena of legal scholarship and theory, Free Hands and Minds makes a compelling case for contextualising law and legal culture within society. At a time of renewed crisis in legal education and research in the common law world, it also offers a vivid, nuanced and critical account of the enduring liberal foundations of Australia's discipline of law.

While applied epistemology has been neglected for much of the twentieth century, it has seen emerging interest in recent years, with key thinkers in the field helping to put it on the philosophical map. Although it is an old tradition, current technological and social developments have dramatically changed both the questions it faces and the methodology required to answer those questions. Recent developments also make it a particularly important and exciting area for research and teaching in the twenty-first century. The Routledge Handbook of Applied Epistemology is an outstanding reference source to this exciting subject and the first collection of its kind. Comprising entries by a team of international contributors, the Handbook is divided into six main parts: The Internet Politics Science Epistemic institutions Individual investigators Theory and practice in philosophy. Within these sections, the core topics and debates are presented, analyzed, and set into broader historical and disciplinary contexts. The central topics covered include: the prehistory of applied epistemology, expertise and scientific authority, epistemic aspects of political and social philosophy, epistemology and the law, and epistemology and medicine. Essential reading for students and researchers in epistemology, political philosophy, and applied ethics the Handbook will also be very useful for those in related fields, such as law, sociology, and politics.

This book presents a contemporary focus on significant issues in STEM teaching, learning and research that are valuable in preparing students for a digital 21st century. The book chapters cover a wide spectrum of issues and topics using a wealth of research methodologies and methods.

WMNC 2017 provides a forum for discussion for researchers, practitioners and students interested in new developments in mobile and wireless networks, services, applications and mobile computing WMNC combines PWC (Personal Wireless Communications conference), MWCN (Mobile and Wireless Communication Networks conference), and WSAN (Wireless Sensors and Actor Networks conference) into one event

The book is a collection of papers about indigenous, aboriginal, ethnic and fugitive groups from different countries, regions and areas. The book's chapters are written by scholars from different disciplines who exemplify these groups' way of life, problems, etc. from educational aspects, governmental aspects, aspects of human rights, economic statues, legal statues etc. The chapters describe their difficulties, but also their will to preserve their culture and language, and make their life better.

The Manual of Hypertension of the European Society of Hypertension reflects emerging concepts that have the potential to impact diagnostic and therapeutic approaches to hypertension. Updating all material, this new edition also delves into a number of areas that have received heightened interest in recent years or have become a matter of debate due to the controversial interpretation of the available data. FEATURES Reflects emerging concepts impacting diagnostic and therapeutic approaches Explores background, history, epidemiology, and risk factors Describes pharmacological, nonpharmacological, and medical treatments Examines hypertension in special populations and treatment

A practical guide to modern image processing techniques and applications in forensic investigations Featuring more than 100 images, Forensic Image Processing provides criminalists with information on how to apply the latest image processing techniques. Forensic image processing (FIP) involves computer restoration and enhancement of surveillance imagery. The goal of FIP is to maximize information extraction from surveillance imagery, especially imagery that is noisy, incomplete, or over/under exposed. With digital filtering, image restoration, de-noising, and enhancement techniques, information can be extracted from low-quality imagery. Using step-by-step examples, this unique resource describes, in detail, how to master the latest FIP technologies. Forensic Image Processing Describes digital image fundamentals Includes step-by-step coverage of image processing—from image acquisitions to object recognition Discusses the integration of traditional security video and computer/internet protocol technology Introduces new products that have led to IP surveillance Contains more than 100 images presenting applications in FIP Explains how to apply modern image processing techniques to forensic science Comprehensive coverage: Introduction to Forensic Image Processing; Digital Image Fundamentals; Image Enhancement in the Spatial Domain; Image Enhancement in the Frequency Domain; Image Restoration; Image Compression; Principles of Digital and Analog Video; Digital Video Processing; Surveillance Technology; Integrating Surveillance and IT

This book explores the importance of compassion and empathy within educational contexts. While compassion and empathy are widely recognised as key to living a happy and healthy life, there is little written about how these qualities can be taught to children and young people, or how teachers can model these traits in their own practice. This book shares several models of compassion and empathy that can be implemented in schooling contexts, also examining how these qualities are presented in children's picture books, films and games. The editors and contributors share personal insights and practical approaches to improve both awareness and use of compassionate and empathetic approaches to others. This book will be of interest and value to all those

interested in promoting compassion and empathy within education.

Ecocriticism and environmental communication studies have for many years co-existed as parallel disciplines, occasionally crossing paths but typically operating in separate academic spheres. These fields are now rapidly converging, and this handbook aims to reinforce the common concerns and methodologies of the sibling disciplines. The Routledge Handbook of Ecocriticism and Environmental Communication charts the history of the relationship between ecocriticism and environmental communication studies, while also highlighting key new paradigms in information studies, diverse examples of practical applications of environmental communication and textual analysis, and the patterns and challenges of environmental communication in non-Western societies. Contributors to this book include literary, film and religious studies scholars, communication studies specialists, environmental historians, practicing journalists, art critics, linguists, ethnographers, sociologists, literary theorists, and others, but all focus their discussions on key issues in textual representations of human–nature relationships and on the challenges and possibilities of environmental communication. The handbook is designed to map existing trends in both ecocriticism and environmental communication and to predict future directions. This handbook will be an essential reference for teachers, students, and practitioners of environmental literature, film, journalism, communication, and rhetoric, and well as the broader meta-discipline of environmental humanities.

This handbook provides a comprehensive and cutting-edge analysis of ethnicity through diverse multidisciplinary lenses. It explores numerous aspects of ethnicity and how it is linked to a range of contemporary political, economic and social issues at the global, regional as well as local levels. In a world where globalization has enveloped and transformed societies through economic and financial integration, social media networks, knowledge transfer, transnational travel, technology and education, there is a tendency to frame issues largely from the standpoint of economic, political and strategic interests of the dominant powers. Issues such as ethnic and cultural identity are often ignored partly because they are too complex to deal with. In this regard, the study of ethnicity is critical in delving deeper into people's worldviews, perceptions of each other, relationships and sense of identification to help us uncover some of the deeper perceptions and meanings of social change as seen and shared by cultural groups as they adapt to the fast-changing world. To better inform ourselves of the complexities of ethnicity and relationship to contemporary global developments and challenges, an approach which is people-centered, balanced, comprehensive and research-based is needed. The multidisciplinary approach of this handbook provides conceptual and empirical narratives across different disciplines such as anthropology, sociology, political studies, cultural studies, media studies, literature, law, development studies and economics, to name a few. It includes comparative case studies from different parts of the world to enrich our understanding of the diverse experiences. The chapters focus on contemporary issues and situations while drawing from historical reflections and lessons. The idea is not only to illuminate the intricacies of ethnic identity, but also to provide innovative ideas to help understand and address some of the contemporary challenges associated with these in our world today.

John Gower's poetry offers an important and immediate response to the turbulent events of his day. The essays here examine his life and his works from an historical angle, bringing out fresh new insights.

List of members in each volume.

This volume develops the concept of intimate economies by showing how contemporary historical archaeologists apply the perspective to their research. The chapters in this volume address intimate economies across multiple historical contexts, and through various case studies provide the reader with a rich, evocative exploration of a concept of topical importance to current concerns and issues.

Artificial Intelligence, Autonomous Systems, Big Data Processing, Biomedical Technologies, Biotechnology, Building Technologies, Chemical, Biological, Radiological and Nuclear Defense, Criminal and Forensic Science, Cognitive Systems, Current Issues and Challenges in Innovation, Environmental Chemistry and Toxicology, Fuel Cell and Water Splitter, Geographic Information System, Green Energy and Green Technology, Grid and Cloud Computing, Intellectual Property Rights, Intelligent Communications and Networks, Laser and Photonic, Lean Manufacturing Technologies, Machine Learning Technologies, Material Technologies and Secondary Process, Microfluidics, Nanotechnology and Material Sciences, Nano and Micro Electro Mechanical Systems, Nuclear Science and Techiniques, Polymer Science, Recycling Technologies, Simulation Technologies, Smart Grid, Space Application, Terahertz Spectroscopy and Applications, Weapon and Ammunition Systems, Unmanned Aerial Vehicle, Virtual Reality

The latest knowledge on mineral ore genesis and the exploration of ore deposits Global demand for metals has risen considerably over the past decade. Geologists are developing new approaches for studying ore deposits and discovering new sources. Ore Deposits: Origin, Exploration, and Exploitation is a compilation of diverse case studies on new prospects in ore deposit geology including atypical examples of mineral deposits and new methods for ore exploration. Volume highlights include: Presentation of the latest research on a range of ore deposit types Application of ore deposits to multiple areas of geology and geophysical exploration Emphasis on diverse methods and tools for the study of ore deposits Useful case studies for geologists in both academia and industry Ore Deposits: Origin, Exploration, and Exploitation is a valuable resource for economic geologists, mineralogists, petrologists, geochemists, mining engineers, research professionals, and advanced students in relevant areas of academic study.

The first comprehensive and detailed presentation of techniques for authenticating digital images.

This book features selected research papers presented at the First International Conference on Computing, Communications, and Cyber-Security (IC4S 2019), organized by Northwest Group of Institutions, Punjab, India, Southern Federal University, Russia, and IAC Educational Trust, India along with KEC, Ghaziabad and ITS, College Ghaziabad as an academic partner and held on 12–13 October 2019. It includes innovative work from researchers, leading innovators and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

In Everyone Lies by AD Garrett, DCI Kate Simms is on the fast track to nowhere. Five years ago she helped a colleague when she shouldn't have. She's been clawing her way back from a demotion ever since. Professor Nick Fennimore is a failed genetics student, successful gambler, betting agent, crime scene officer, chemistry graduate, toxicology specialist and one-time scientific advisor to the National Crime Faculty. He is the best there is, but ever since his wife and daughter disappeared he's been hiding away in Scotland, working as a forensics lecturer. In Manchester, drug addicts are turning up dead and Simms' superior is only too pleased to hand the problem to her. Then a celebrity dies and the media gets interested. Another overdose victim shows up, but this time the woman has been systematically beaten and all identifying features removed. The evidence doesn't add up; Simms' superiors seem to be obstructing her investigation; and the one person she can't afford to associate with is the one man who can help: Fennimore.

Raised in a family of four, Kylila thinks she has the most ideal family. After her village has been burnt down, her deep, dark secret in her life begins to unfold. Having the powers to save or destroy the world, which would Kylila choose?

The book addresses issues related to the education of ethnic minority individuals in the multilingual Asian region. It features recent

research and practices of scholars aiming to rethink educational policy and practice surrounding the education of ethnic minority students with a variety of language scenarios in Hong Kong and other Asian contexts. It documents how ethnicity and inequality are played out at policy, school, and individual levels, and how these affect the education of ethnic minorities in their host societies. Using a range of methods, from surveys to interviews and document analysis, this book describes the links between language, identity and educational inequality related to ethnic minorities in Asian contexts.

Liquid Phase Extraction thoroughly presents both existing and new techniques in liquid phase extraction. It not only provides all information laboratory scientists need for choosing and utilizing suitable sample preparation procedures for any kind of sample, but also showcases the contemporary uses of sample preparation techniques in the most important industrial and academic project environments, including countercurrent chromatography, pressurized-liquid extraction, single-drop Microextraction, and more. Written by recognized experts in their respective fields, it serves as a one-stop reference for those who need to know which technique to choose for liquid phase extraction. Used in conjunction with a similar release, Solid Phase Extraction, it allows users to master this crucial aspect of sample preparation. Defines the current state-of-the-art in extraction techniques and the methods and procedures for implementing them in laboratory practice Includes extensive referencing that facilitates the identification of key information Aimed at both entry-level scientists and those who want to explore new techniques and methods

This book provides the first comprehensive study of diverse migrant memories and what they mean for Australia in the twenty-first century. Drawing on rich case studies, it captures the changing political and cultural dimensions of migration memories as they are negotiated and commemorated by individuals, communities and the nation. Remembering Migration is divided into two sections, the first on oral histories and the second examining the complexity of migrant heritage, and the sources and genres of memory writing. The focused and thematic analysis in the book explores how these histories are re-remembered in private and public spaces, including museum exhibitions, heritage sites and the media. Written by leading and emerging scholars, the collected essays explore how memories of global migration across generations contribute to the ever-changing social and cultural fabric of Australia and its place in the world.

Ecological restoration is as essential as sustainable development for the health of the biosphere. Restoration, however, has been a low priority of most countries' environmental laws, which tend to focus narrowly on rehabilitation of small, discrete sites rather than the more ambitious recovery of entire ecosystems and landscapes. Through critical theoretical perspectives and topical case studies, this book's diverse contributors explore a more ambitious agenda for ecological restoration law. Not only do they investigate current laws and other governance mechanisms; they also consider the philosophical and methodological bases for the law to take ecological restoration more seriously. Through exploration of themes relating to time, space, geography, semiotics, social justice, and scientific knowledge, this book offers innovative and critical insights into ecological restoration law.

Edited by an international team of leading scholars, The Routledge Handbook of Social Epistemology is the first major reference work devoted to this growing field. The Handbook's 46 chapters, all appearing in print here for the first time, and written by philosophers and social theorists from around the world, are organized into eight main parts: Historical Backgrounds The Epistemology of Testimony Disagreement, Diversity, and Relativism Science and Social Epistemology The Epistemology of Groups Feminist Epistemology The Epistemology of Democracy Further Horizons for Social Epistemology With lists of references after each chapter and a comprehensive index, this volume will prove to be the definitive guide to the burgeoning interdisciplinary field of social epistemology.

Matrix-analytic and related methods have become recognized as an important and fundamental approach for the mathematical analysis of general classes of complex stochastic models. Research in the area of matrix-analytic and related methods seeks to discover underlying probabilistic structures intrinsic in such stochastic models, develop numerical algorithms for computing functionals (e.g., performance measures) of the underlying stochastic processes, and apply these probabilistic structures and/or computational algorithms within a wide variety of fields. This volume presents recent research results on: the theory, algorithms and methodologies concerning matrix-analytic and related methods in stochastic models; and the application of matrix-analytic and related methods in various fields, which includes but is not limited to computer science and engineering, communication networks and telephony, electrical and industrial engineering, operations research, management science, financial and risk analysis, and bio-statistics. These research studies provide deep insights and understanding of the stochastic models of interest from a mathematics and/or applications perspective, as well as identify directions for future research.

Prepares readers to become high-quality humanities and social sciences educators for early childhood and primary contexts.

This book features selected research papers presented at the Second International Conference on Computing, Communications, and Cyber-Security (IC4S 2020), organized in Krishna Engineering College (KEC), Ghaziabad, India, along with Academic Associates; Southern Federal University, Russia; IAC Educational, India; and ITS Mohan Nagar, Ghaziabad, India during 3 October 2020. It includes innovative work from researchers, leading innovators, and professionals in the area of communication and network technologies, advanced computing technologies, data analytics and intelligent learning, the latest electrical and electronics trends, and security and privacy issues.

Networks of Invasion bridges a conceptual gap between ecological network studies and invasion biology studies. This book contains chapters detailing pressing concerns regarding invasive species in food webs, but also extends the idea of networks of invasion to other systems, such as mutualistic networks or even the human microbiome. Chapters describe the tools, models, and empirical methods adapted for tackling invasions in ecological networks. Contains chapters detailing pressing concerns regarding invasive species in food webs Deals with topical and important reviews on the physiology, populations, and communities of plants and animals

It's been ten years since open data first broke onto the global stage. Over the past decade, thousands of programmes and projects around the world have worked to open data and use it to address a myriad of social and economic challenges. Meanwhile, issues related to data rights and privacy have moved to the centre of public and political discourse. As the open data movement enters a new phase in its evolution, shifting to target real-world problems and embed open data thinking into other existing or emerging communities of practice, big questions still remain. How will open data initiatives respond to new concerns about privacy, inclusion, and artificial intelligence? And what can we learn from the last decade in order to deliver impact where it is most needed? The State of Open Data brings together over 60 authors from around the world to address these questions and to take stock of the real progress made to date across sectors and around the world, uncovering the issues that will shape the future of open data in the years to come.