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Probabilistic Finite Element Model Updating Using Bayesian Statistics - Tshilidzi Marwala
2016-09-23

Probabilistic Finite Element Model Updating Using Bayesian Statistics: Applications to Aeronautical and Mechanical Engineering Tshilidzi Marwala and Ilyes Boulkaibet, University of Johannesburg, South Africa Sondipon Adhikari, Swansea University, UK Covers the probabilistic finite element model based on Bayesian statistics with applications to aeronautical and mechanical engineering Finite element models are used widely to model the dynamic behaviour of many systems including in electrical, aerospace and mechanical engineering. The book covers probabilistic finite element model updating, achieved using Bayesian statistics. The Bayesian framework is employed to estimate the probabilistic finite element models which take into account of the uncertainties in the measurements and the modelling procedure. The Bayesian formulation achieves this by formulating the finite element model as the posterior distribution of the model given the measured data within the context of computational statistics and applies these in aeronautical and mechanical engineering. Probabilistic Finite Element Model Updating Using Bayesian Statistics contains simple explanations of computational statistical techniques such as Metropolis-Hastings Algorithm, Slice sampling, Markov Chain Monte Carlo method, hybrid Monte Carlo as well as Shadow Hybrid Monte Carlo and their relevance in engineering. Key features: Contains several contributions in the area of model updating

using Bayesian techniques which are useful for graduate students. Explains in detail the use of Bayesian techniques to quantify uncertainties in mechanical structures as well as the use of Markov Chain Monte Carlo techniques to evaluate the Bayesian formulations. The book is essential reading for researchers, practitioners and students in mechanical and aerospace engineering.

ECCWS 2020 20th European Conference on Cyber Warfare and Security - Dr Thaddeus Eze 2020-06-25

These proceedings represent the work of contributors to the 19th European Conference on Cyber Warfare and Security (ECCWS 2020), supported by University of Chester, UK on 25-26 June 2020. The Conference Co-chairs are Dr Thaddeus Eze and Dr Lee Speakman, both from University of Chester and the Programme Chair is Dr Cyril Onwubiko from IEEE and Director, Cyber Security Intelligence at Research Series Limited. ECCWS is a well-established event on the academic research calendar and now in its 19th year the key aim remains the opportunity for participants to share ideas and meet. The conference was due to be held at University of Chester, UK, but due to the global Covid-19 pandemic it was moved online to be held as a virtual event. The scope of papers will ensure an interesting conference. The subjects covered illustrate the wide range of topics that fall into this important and ever-growing area of research.

The Philosophy of Interpretation - Joseph Margolis 2001-06-08

This is a lively, freshly invited collection of

papers by a number of well-known philosophers and other specialists who have focused very pointedly on certain central conceptual puzzles posed by the general practice of interpretation in the arts, literature, history, and the natural and human sciences. The collection gives very nearly the impression of a sustained debate.

Mathematical Methods in Interdisciplinary Sciences - Snehashish Chakraverty 2020-06-15
Brings mathematics to bear on your real-world, scientific problems Mathematical Methods in Interdisciplinary Sciences provides a practical and usable framework for bringing a mathematical approach to modelling real-life scientific and technological problems. The collection of chapters Dr. Snehashish Chakraverty has provided describe in detail how to bring mathematics, statistics, and computational methods to the fore to solve even the most stubborn problems involving the intersection of multiple fields of study. Graduate students, postgraduate students, researchers, and professors will all benefit significantly from the author's clear approach to applied mathematics. The book covers a wide range of interdisciplinary topics in which mathematics can be brought to bear on challenging problems requiring creative solutions. Subjects include: Structural static and vibration problems Heat conduction and diffusion problems Fluid dynamics problems The book also covers topics as diverse as soft computing and machine intelligence. It concludes with examinations of various fields of application, like infectious diseases, autonomous car and monotone inclusion problems.

ICICKM 2018 15th International Conference on Intellectual Capital Knowledge Management & Organisational Learning - Prof. Shaun Pather 2018-11-29

Does The Black Middle Class Exist And Are We Members? - Grace Khunou 2019-11-22

Does the Black Middle Class Exist And Are We Members makes two contributions into the research of the black middle class. First, it explores how Black South Africans conceptualize middle classness. Second, it demonstrates how this conceptualization informs researchers' social identity within the Black middle class. *Remaking Social Work for the New Global Era* -

Ngoh Tiong Tan 2022-08-30

Future social work practice requires a holistic framework to deal effectively with the great social and economic disruptions of this unprecedented time. Innovation and creativity are indispensable to empowering social workers and social service organizations to make an impact on the lives of people and societies in today's world. This book provides a range of innovative practices of social work drawing from alternate theories and with a global orientation. It is forward-looking with a focus on social resilience, social inclusion and recovery. Using a strengths perspective, discussions in the chapters provide useful insights in restructuring social life and social services at the individual as well as community and societal levels for meeting the challenges of a new global era. The chapters draw on the experiences of the authors in their academic and practice engagements and focus on a variety of arenas of social work education and practice to enrich the understanding of the present and future of the field. Authors discuss theoretical and conceptual models to review social work education and practice of engaging in a fast-changing global era and complex contexts. Topics explored include: New Era for Social Work in the Global Future Remaking Social Work by Applying an Anti-oppressive Lens Vulnerability and Resilience of Refugee Women and Children Critical Green Social Work as Futuristic Social Work Practice Globalisation and the Future of Social Work Practice and Education Equipping Social Workers for a New Global Era Remaking Social Work for the New Global Era is an essential resource to inform practice, enrich teaching, and direct future research for social work academics, researchers, educators, students, and field supervisors, as well as social care, social work and social service practitioners in both clinical and policy settings. The book also would be of interest to mental health and community professionals in various practice contexts across the globe.

School Leadership for Democratic Education in South Africa - Tsedisio Michael Makoelle 2021-07-30

School Leadership for Democratic Education in South Africa explores the democratization and modernization of education in South Africa,

analyzing the state of school leadership in South African schools from the time of the new democratic education dispensation in 1994 to the present day. The book maps out what the future of education in South Africa could look like and explores the most conducive educational environments for change in South African schools. It adopts a critical approach to analyzing leadership and management in the context of school governance, school effectiveness, teacher development, multiculturalism and equity in education. Contributions explore the democratization and modernization of education in South Africa through examining different perspectives, achievements and challenges, and also consider issues around access to technology, language policy and the curriculum along with new literature on selected aspects of leadership. This book will be of great interest for researchers, scholars, and students in the fields of educational leadership, sociology of education, and teacher education.

Psychological Assessment in South Africa - Sumaya Laher 2013-01-01

This book provides an overview of the research related to psychological assessment across South Africa. The thirty-six chapters provide a combination of psychometric theory and practical assessment applications in order to combine the currently disparate research that has been conducted locally in this field. Existing South African texts on psychological assessment are predominantly academic textbooks that explain psychometric theory and provide brief descriptions of a few testing instruments. *Psychological Assessment in South Africa* provides in-depth coverage of a range of areas within the broad field of psychological assessment, including research conducted with various psychological instruments. The chapters critically interrogate the current Eurocentric and Western cultural hegemonic practices that dominate the field of psychological assessment. The book therefore has the potential to function both as an academic text for graduate students, as well as a specialist resource for professionals, including psychologists, psychometrists, remedial teachers and human resource practitioners.

Urban Revolt - Trevor Ngwane 2017-03-27

How do individuals and organizations move beyond the boundaries of constitutional or legal constructs to challenge neoliberalism and capitalism? As major urban areas have become the principal sites of poor and working-class social upheaval in the early twenty-first century, the chapters in this book explore key cities in the Global South. Through detailed cases studies, *Urban Revolt* unravels the potential and limitations of urban social movements on an international level.

Moral and Political Values in Teacher Education over Time - Nick Mead 2022-08-19

This collection brings together international teacher educators to employ a 'long view' of an historic and values-based dialectic in teacher education. The authors reflect how employing historical consciousness to look back can offer greater continuity to teachers' moral and political values within their training. The book draws on research from experienced teacher educators representing different historical, social and political contexts in North America, Europe, Asia as well in post-conflict South Africa. Within each section, the authors reflect on the development of the moral and political values of pre-service and in-service teachers in an era of global neo-liberalism and how this is inextricably bound up with the narratives of professionals in the past within their own national context. Each chapter takes a 'long view' of the role of historical consciousness in informing the moral and political values of preservice and in-service teachers, providing examples of how international teacher educators can collectively support one another in restoring a vibrant, values-based dialectic within the processes, pedagogies and provision of university and school-based training for which they are responsible. The 'long view' approach offers a compelling argument for the need to connect pre- and in-service teachers' values and narrative to the legacy of professionals of the past. *Moral and Political Values in Teacher Education over Time* will be of great interest to researchers, academics and students in teacher education, comparative education and the history of education. It will also be of interest to international university and school-based teacher educators and policy-makers in the field. *Making Public in a Privatized World* - David A.

McDonald 2016-02-15

How do we provide effective public services in a deeply neoliberal world? In the wake of the widespread failure of privatisation efforts, societies in the global south are increasingly seeking progressive ways of recreating the public sector. With contributors ranging from cutting-edge scholars to activists working in health, water, and energy provision, and with case studies covering a broad spectrum of localities and actors, *Making Public in a Privatized World* uncovers the radically different ways in which public services are being reshaped from the grassroots up. From communities holding the state accountable for public health in rural Guatemala, to waste pickers in India and decentralized solar electricity initiatives in Africa, the essays in this collection offer probing insights into the complex ways in which people are building genuine alternatives to privatization, while also illustrating the challenges which communities face in creating public services which are not subordinated to the logic of the market, or to the monolithic state entities of the past.

Research Impact and the Early Career

Researcher - Kieran Fenby-Hulse 2019-05-24

Research Impact and the Early Career Researcher documents experiences and perspectives on the emerging concept of research impact from a range of disciplines and places them within an analytical and critical discursive framework. Combining personal reflections with research essays, it provides the reader with a multi-dimensional perspective on research impact and how it connects to the research lives and practice of early career researchers. Research impact is playing an ever-increasing role in international research policy and government strategy. This book: Explores the arrival of impact into the national research consciousness Discusses how to build capacity and skills within research impact and how this might impact academic career progression in an international job market Offers advice on balancing national expectations with institutional expectations on research in terms of funding and career progression Offers suggested ways forward whilst actively challenging what constitutes research impact *Research Impact and the Early Career Researcher* provides a

much-needed research base for studies of research impact and the extent to which it has altered, changed, and influenced the research practice of early career academics. It is an essential guide for any new and early career researchers wishing to navigate the complex landscape in order to meaningfully contribute to the impact agenda.

Mediating Learning in Higher Education in Africa - 2021-05-25

This book enters the discourse of the scholarship of teaching and learning in higher education in Africa. The book provides critical insights comprising topical themes from transformation, citizenship and gender, researching to ethical perspectives of teaching and learning.

Genomics and Health in the Developing World - Dhavendra Kumar 2012-06-14

Readership: Geneticists and clinicians worldwide in addition to graduate students and researchers interested in populations and genomics

Radio, Public Life and Citizen Deliberation in South Africa - Sarah Chiumbu 2021-05-25

This book critically analyses the important role of radio in public life in post-apartheid South Africa. As the most widespread and popular form of communication in the country, radio occupies an essential space in the deliberation and the construction of public opinion in South Africa. From just a few state-controlled stations during the apartheid era, there are now more than 100 radio stations, reaching vast swathes of the population and providing an important space for citizens to air their views and take part in significant socio-economic and political issues of the country. The various contributors to this book demonstrate that whilst print and television media often serve elite interests and audiences, the low cost and flexibility of radio has helped it to create a 'common' space for national dialogue and deliberation. The book also investigates the ways in which digital technologies have enhanced the consumption of radio and produced a sense of imagined community for citizens, including those in marginalised communities and rural areas. This book will be of interest to researchers with an interest in media, politics and culture in South Africa specifically, as well as those with an interest in broadcast media more generally. *Safeguarding, Child Protection and Abuse in*

Sport - Melanie Lang 2014-07-11

The safeguarding of children and young people participating in sport has become an increasingly prominent concern in policy-making and research communities around the world. Major organisations such as the IOC and UNICEF now officially recognize that children in sport can be at risk of exploitation and abuse, and this concern has led to the emergence of new initiatives and policies aimed at protecting vulnerable young people and athletes. This book is the first to comprehensively review contemporary developments in child protection and safeguarding in sport on a global level. The book is divided into two parts. Part One critically analyses current child protection and safeguarding policy and practice in sport across a range of countries, including the US, Canada, the UK, Australia, China and Germany, providing a global context for current policy and practice. This represents the most comprehensive review to date of the landscape of child protection and safeguarding in sport and provides a starting point for critical international comparisons. Part Two explores a range of issues related to child protection and safeguarding in sport, including many not covered in previous books, such as emotional abuse, injury and over-training. While in many instances the impetus for policy in this area has arisen from concerns about sexual abuse, the second part of this book therefore opens up a broader, more holistic approach to child and athlete welfare. By bringing together many of the leading researchers working in child and athlete protection in sport from around the world, this book is important reading for all advanced students, researchers, policy-makers or practitioners working in youth sport, physical education, sports coaching, coach education or child protection.

San Representation - Keyan Tomaselli
2017-12-22

The San or Bushmen of southern Africa have exerted a fascination over generations of writers and scholars, from novelists and anarchists to ethnologists and geneticists, and also occupy a special place in the popular imagination as the First People and the contemporary remnant of spiritual and natural man. The ways in which particular groups of people from southern Africa have been traditionally categorised and

positioned as objects of scrutiny by a range of academic disciplines is increasingly being contested and questioned. There is a growing awareness of the cultural, economic and genetic entanglement of the peoples of the region. This book examines how San and Khoe people are represented, by others, as well as by those who identify as San or Khoe. The book interrogates the ways in which disciplines, through their methodologies and ways of authorising knowledge, not only "discover" or "reveal" knowledge but produce it in ways that involve complex and often ambiguous relationships with power structures and forms of intellectual, symbolic and cultural capital. One major trend that emerges is that the San and Khoe can no longer be seen as people of the past but have to be acknowledged as contemporary and socially situated individuals and communities who are increasingly contesting the representations which others have imposed on them. This book was originally published as a special issue of *Critical Arts: A Journal of South-North Cultural and Media Studies*.

Future-Proofing Teacher Education - Sarah Gravett 2022-07-22

This book presents a variety of perspectives on teacher education for a fast-changing world. It deepens the discourse on teacher education and specifically considers teacher education in light of the technological advancements of the Fourth Industrial Revolution as well as education in times of uncertainty. Drawing on examples from South Africa and showcasing international authors, the book offers a nuanced evaluation of how teacher education might adapt for the future. It explores the tension between the perennial in education and the unpredictability of the future and asks the question of how teacher education can contend with these tensions and how teachers can prepare for unexpected circumstances. Chapters draw on the science of learning and foreground lessons learned from the abrupt move of teacher education online due to the COVID-19 pandemic. The book invokes these themes to reimagine and strengthen teacher education for the future, presenting reports on research, case studies, and theoretical stances. *Future-Proofing Teacher Education* explores what is relevant in teacher education in the 21st century and will be a key

reading for researchers, academics, and post-graduate students of teacher education, technology in education, and digital education.

Promoting Healthy Human Relationships in Post-Apartheid South Africa - Ndongwa Noyoo 2020-10-11

This is the first book that examines healthy human relationships in post-apartheid South Africa. In contemporary South Africa, human relationships are under considerable threat. Despite the 1994 commitment to an inclusive and human-rights-based democracy, human relationships remain strained. Bearing in mind South Africa's tortuous and divisive past, this book brings to light many issues, prospects and challenges with regard to the promotion of healthy human relationships after apartheid ended. Social work and social development perspectives are central to the issues that are raised in this volume. The profession of social work has always championed the centrality of human relationships, being less interested in the internal functioning of people and more interested in their interpersonal functioning within broader structures and forces, including social justice, building people's strengths and capabilities, anti-discrimination, diversity and empowerment. This edited book is based on select papers presented at a social work conference in 2019 that was co-hosted by the Department of Social Development at the University of Cape Town and the Association of South African Social Work Education Institutions. In the chapters, the contributors offer some solutions to the ubiquitous societal ills that emanate from either corrosive or broken human relationships: Resurgent racism in post-apartheid South Africa and the need to promote healthy human relationships Promoting healthy human relationships with sub-Saharan African immigrants and South Africans Promoting family and human relationships in a traumatised society Social policy, social welfare, social security and legislation in promoting healthy human relationships in post-apartheid South Africa Social protection as a tool to promote healthy human relationships in South Africa Promoting Healthy Human Relationships in Post-Apartheid South Africa is an essential resource for an international audience of scholars, policy-makers, and social work and social development

practitioners, legislators and students.

Deciding in Unison: Themes in Consensual Democracy in Africa - Emmanuel Ifeanyi Ani 2020-04-02

'Deciding in Unison: Themes in Consensual Democracy in Africa' is an edited volume that both scholars and students of African philosophy and politics will find interesting. The chapters trace the current state of the debate as well as the idea that the advancement of consensus democracy as unanimity democracy is no longer valid, and a democracy of compromise is suggested as an alternative for advancing consensus democracy. The collection also contains chapters dealing with Wiredu's consensual proposal for the building of resistance movements as well as his views about the relativity of truth and the way we should handle it. However, there are also chapters that explore the non-party system Wiredu proposes as not applicable in practice. Furthermore, the issues related to transferring consensus-supporting values like communism into the contemporary Africa setting are also examined. Also discussed in the book is how current presentations of African epistemology cannot pass for epistemology, and how we could begin to think of fashioning an African epistemology from deliberation aimed at consensus.

Handbook of Research on Using Global Collective Intelligence and Creativity to Solve Wicked Problems - Fields, Ziska 2020-11-27

Today's world is continually facing complex and life-threatening issues that are too difficult or even impossible to solve. These challenges have been titled "wicked" problems due to their radical and multifarious nature. Recently, there has been a focus on global cooperation and gathering creative and diverse methods from around the world to solve these issues. Accumulating research and information on these collective intelligence methods is vital in comprehending current international issues and what possible solutions are being developed through the use of global collaboration. The Handbook of Research on Using Global Collective Intelligence and Creativity to Solve Wicked Problems is a pivotal reference source that provides vital research on the collaboration between global communities in developing

creative solutions for radical worldwide issues. While highlighting topics such as collaboration technologies, neuro-leadership, and sustainable global solutions, this publication explores diverse collections of problem-solving methods and applying them on a global scale. This book is ideally designed for scholars, researchers, students, policymakers, strategists, economists, and educators seeking current research on problem-solving methods using collective intelligence and creativity.

African State Governance - A. Carl LeVan
2016-02-05

Africa is changing and it is easy to overlook how decentralization, democratization, and new forms of illiberalism have transformed federalism, political parties, and local politics. Chapters on Kenya, Nigeria, Ethiopia, and South Africa help fill an important gap in comparative institutional research about state and local politics in Africa.

Surface Engineering Techniques and Applications: Research Advancements - Santo, Loredana
2014-02-28

Surface engineering includes many facets of materials science that help regulate the function, quality, and safety of products such as automotive, textile, and electronic materials. New technologies are developing to help enhance the surface performance. *Surface Engineering Techniques and Applications: Research Advancements* provides recent developments in surface engineering techniques and applications. It details scientific and technological results while also giving insight to current research, economic impact, and environmental concerns so that academics, practitioners, and professionals in the field, as well as students studying these areas, can deepen their understanding of new surface processes.

Wound Healing - Kursad Turksen
2018-02-21

A comprehensive resource on the recent developments of stem cell use in wound healing. With contributions from experts in the field, *Wound Healing* offers a thorough review of the most recent findings on the use of stem cells to heal wounds. This important resource covers both the basic and translational aspects of the field. The contributors reveal the great progress that has been made in recent years and explore

a wide range of topics from an overview of the stem cell process in wound repair to inflammation and cancer. They offer a better understanding of the identities of skin stem cells as well as the signals that govern their behavior that contributes to the development of improved therapies for scarring and poorly healing wounds. Comprehensive in scope, this authoritative resource covers a wealth of topics such as: an overview of stem cell regeneration and repair, wound healing and cutaneous wound healing, the role of bone marrow derived stems cells, inflammation in wound repair, role and function of inflammation in wound repair, and much more. This vital resource: Provides a comprehensive overview of stem cell use in wound healing, including both the basic and translational aspects of the field. Covers recent developments and emerging subtopics within the field. Offers an invaluable resource to clinical and basic researchers who are interested in wound healing, stem cells, and regenerative medicine. Contains contributions from leading experts in the field of wound healing and care. *Wound Healing* offers clinical researchers and academics a much-needed resource written by noted experts in the field that explores the role of stem cells in the repair and restoration of healing wounds.

Green Finance for Sustainable Global Growth - Tsai, Sang-Bing
2019-01-22

Businesses working under green finance models consider the potential environmental impact in investment and financing decisions and merge the potential return, risk, and cost correlated with environmental conditions into day-to-day financial business. Under this model, the ecological environment and sustainable development of society is observed and promoted. *Green Finance for Sustainable Global Growth* is an essential reference source that discusses emerging financial models that focus on sustainable development and environmental protection including developing trends in green finance, internet finance, and sustainable finance. Featuring research on topics such as competitive financing, supply chain management, and financial law, this book is ideally designed for accountants, financial managers, professionals, academicians, researchers, and students seeking coverage on

the sustainable development of the finance industry.

The History and Political Transition of Zimbabwe - Sabelo J. Ndlovu-Gatsheni
2020-10-21

This book is the first to tackle the difficult and complex politics of transition in Zimbabwe, with deep historical analysis. Its focus is on a very problematic political culture that is proving very hard to transcend. At the center of this culture is an unstable but resilient 'nationalist-military' alliance crafted during the anti-colonial liberation struggle in the 1970s. Inevitably, violence, misogyny and masculinity are constitutive of the political culture. Economically speaking, the culture is that of a bureaucratic, parasitic, primitive accumulation and corruption, which include invasion and emptying of state coffers by a self-styled 'Chimurenga aristocracy.' However, this Chimurenga aristocracy is not cohesive, as the politics that led to Robert Mugabe's ousting from power was preceded by dirty and protracted internal factionalism. At the center of the factional politics was the 'first family': Robert Mugabe and his wife, Grace Mugabe. This book offers a multidisciplinary examination of the complex contemporary politics in Zimbabwe, taking seriously such issues as gender, misogyny, militarism, violence, media, identity, modes of accumulation, the ethnicization of politics, attempts to open lines of credit and FDI, national healing, and the national question as key variables not only of a complete political culture but also of difficult transitional politics.

A scholarly contribution to educational praxis - M.A. Mokoena 2016-12-31

This publication contains original research targeting scientific specialists in the field of education, through research endeavours grounded on a philosophical basis, as well as being embedded in the empirical. The research methodology of each chapter emanates from applicable philosophical assumptions in the form of an applicable theoretical and conceptual framework. The latter forms a firm basis for the application of sound empiricism. The content of this book adds to the body of scholarly knowledge in education. In his evaluation of the book, Acting Executive Dean, Faculty of Education and Training, Professor Akpovire

Oduaran, made the following remarks: 'To a large extent, the ideas put together in this book have come from data generated not just from literature found in books and journals but actual interactions with educators and the learning environment. So then, what the reader is offered in this volume is the articulation of ideas that have been interrogated, structured and presented in surprisingly simplistic and yet incisive and academically enriching content that can match the standards of scholarship that is available in the Western World. Yet, what makes this book so welcome, relevant and timely, is the fact that it is built around Afrocentric theories and practices such as one may find in imported literature.'

Antibiotic Materials in Healthcare - Kokkarachedu Varaprasad 2020-05-22

Antibiotic Materials in Healthcare provides significant information on antibiotic related issues, accurate solutions, and recent investigative information for health-related applications. In addition, the book addresses the design and development of antibiotics with advanced (physical, chemical and biological) properties, an analysis of materials, in vivo and in vitro applications, and their biomedical applications for healthcare. Provides information on all aspects of antibiotic related issues Offers a balanced synthesis of basic and clinical science for each individual case, presenting clinical courses and detailed microbiological information for each infection Describes the prevalence and incidence of global issues and current therapeutic approaches

Transforming Society - Ngoh Tiong Tan
2017-07-06

Social change affects all quarters of life and human society whether in individual neighbourhoods, communities or nations, or in the world as a whole - encompassing many issues of gender, age, social class and ethnicity. This book examines both the conceptual as well as operational aspects of social transformation and social development. It examines societal transformation at the individual, group, community, national and international levels using a range of case studies from Singapore, Asia and around the world. The four parts of this book highlight the challenges of social development; issues concerning workforce and

migration; welfare, women and social care; as well as, community development and capacity building. Social development and social transformation are presented as intertwined concepts that affect citizens in profound ways from social care to social well-being, construction of social relationship as well as community life, capacity building and nation building.

Advanced Surface Coating Techniques for Modern Industrial Applications - Roy, Supriyo
2020-09-18

In engineering, there are often situations in which the material of the main component is unable to sustain long life or protect itself from adverse operating environments. Moreover, in some cases, different material properties such as anti-friction and wear, anti-corrosive, thermal resistive, super hydrophobic, etc. are required as per the operating conditions. If those bulk components are made of such materials and possess those properties, the cost will be very high. In such cases, a practical solution is surface coating, which serves as a protective barrier to the bulk material from the adverse environment. In the last decade, with enormous effort, researchers and scientists have developed suitable materials to overcome those unfavorable operating conditions, and they have used advanced deposition techniques to enhance the adhesion and surface texturing of the coatings. Advanced Surface Coating Techniques for Modern Industrial Applications is a highly sought reference source that compiles the recent research trends in these new and emerging surface coating materials, deposition techniques, properties of coated materials, and their applications in various engineering and industrial fields. The book particularly focuses on 1) coating materials including anti-corrosive materials and nanomaterials, 2) coating methods including thermal spray and electroless disposition, and 3) applications such as surface engineering and thin film application. The book is ideal for engineers, scientists, researchers, academicians, and students working in fields like material science, mechanical engineering, tribology, chemical and corrosion science, biomedical engineering, biomaterials, and aerospace engineering.

ECCWS2014-Proceedings of the 13th European

Conference on Cyber warfare and Security - Andrew Liaropoulos 2014-03-07

Cultural Tourism in Southern Africa - Haretsebe Manwa 2016-01-11

This volume provides an accessible overview of cultural tourism in southern Africa. It examines the utilisation of culture in southern African tourism and the related impacts, possibilities and challenges from deep and wide-ranging perspectives. The chapters use case studies to showcase some of the cultural tourism which occurs in the region and link to concepts such as authenticity, commodification, the tourist gaze and 'Otherness', heritage, sustainability and sustainable livelihoods. The authors scrutinise both positive and negative impacts of cultural tourism throughout the book and explore issues including the definition of community, ethical considerations, empowerment, gender, participation and inequality. The book will be a useful resource for students and researchers of tourism, geography, anthropology and cultural studies.

Glimpses into Primary School Teacher Education in South Africa - Sarah Gravett
2020-11-06

This book explores the current landscape of Initial Teacher Education (ITE) in primary schools in South Africa. Considering recent policy directives and initiatives, it highlights the dilemmas of ITE for the primary school and gives a thorough account of innovations and initiatives to improve ITE. The book presents what works best for quality preparation of teachers in the Global South, where many children rely on their teachers and school life to break the cycle of poverty. Chapters draw on evidence from workplace learning, pre-service study, and primary school teacher education policy to highlight examples of promising change in teacher education in South Africa, addressing the clichés of "theory versus practice" head-on. This book successfully brings out the challenging aspects of teacher education for childhood learning which has otherwise been regarded as the softer option for a career in education. This book will be of great interest for academics, researchers, and post-graduate students in the fields of teacher education, African education, educational policy, international education, and

comparative education.

Development and Sustainable Growth of Mauritius - Vanessa T. Tang 2018-11-27

This edited volume analyzes the Mauritius economy and highlights what conditions and policies have contributed to the development of the country. The project gives a historical and economic analysis of Mauritius and provides comparative approaches looking at other developing states in Africa and Asia. This book is intended for a broad audience, consisting of not only economists with quantitative expertise but also other social scientists, policymakers and scholars interested in the intellectually fascinating exploration of Mauritius's rapid rise and sustained growth performance.

Beyond Bitcoin - Simon Dingle 2022-01-06

After over a decade of Bitcoin, which has now moved beyond lore and hype into an increasingly robust star in the firmament of global assets, a new and more important question has arisen. What happens beyond Bitcoin? The answer is decentralised finance - 'DeFi'. Tech and finance experts Steven Boykey Sidley and Simon Dingle argue that DeFi - which enables all manner of financial transactions to take place directly, person to person, without the involvement of financial institutions - will redesign the cogs and wheels in the engines of trust, and make the remarkable rise of Bitcoin look quaint by comparison. It will disrupt and displace fine and respectable companies, if not entire industries. Sidley and Dingle explain how DeFi works, introduce the organisations and individuals that comprise the new industry, and identify the likely winners and losers in the coming revolution.

The Politics of Laughter in the Social Media Age - Shepherd Mpofu 2021-11-03

The Politics of Laughter in the Social Media Age: Perspectives from the Global South brings to critical and intellectual attention the role of humour in the digital era in the Global South. Many citizens of the Global South live disempowered and precarious lives. Digital media and humour, as chapters in the volume demonstrate, have empowered these citizens through engagement with power and their peers, enabling a pursuit of a better future. Contributors to the volume, while alive to challenges associated with the digital divide,

highlight the potentials of social media and humour to engage and seek redress on issues such as corruption, human rights violations, racism and sexism. Contributors expertly analyse memes, videos, cartoons and other social media texts to demonstrate how citizens mimic, disrupt, ridicule and challenge status quo. This book caters for academics and students in media and communication studies, political studies, sociology and Global South studies.

Postgraduate Study in South Africa - Liezel Frick 2016-11-21

The book explores concerns about the lack of higher education transformation around issues of equity, curriculum reform, language and race, and how students navigate higher education complexities. Students' self-reflective abilities, creativity and pragmatic approaches to surviving and succeeding are indicators that postgraduate student success is as much internally as externally determined. Each chapter speaks from a uniquely South African perspective. The editors have tried to remain true to the voice of each contributor, while simultaneously providing a coherent body of scholarly work.

Additive Manufacturing Technologies From an Optimization Perspective - Kumar, Kaushik 2019-06-28

In this technology-driven era, conventional manufacturing is increasingly at risk of reaching its limit, and a more design-driven manufacturing process, additive manufacturing, might just hold the key to innovation. Offering a higher degree of design freedom, the optimization and integration of functional features, and the manufacturing of small batch sizes, additive manufacturing is changing industry as we know it. Additive Manufacturing Technologies From an Optimization Perspective is a critical reference source that provides a unified platform for the dissemination of basic and applied knowledge about additive manufacturing. It carefully examines how additive manufacturing is increasingly being used in series production, giving those in the most varied sectors of industry the opportunity to create a distinctive profile for themselves based on new customer benefits, cost-saving potential, and the ability to meet sustainability goals. Highlighting topics such as bio-printing,

tensile strength, and cell printing, this book is ideally designed for academicians, students, engineers, scientists, software developers, architects, entrepreneurs, and medical professionals interested in advancements in next-generation manufacturing.

Everyday Media Culture in Africa - Wendy Willems 2016-11-10

African audiences and users are rapidly gaining in importance and increasingly targeted by global media companies, social media platforms and mobile phone operators. This is the first edited volume that addresses the everyday lived

experiences of Africans in their interaction with different kinds of media: old and new, state and private, elite and popular, global and national, material and virtual. So far, the bulk of academic research on media and communication in Africa has studied media through the lens of media-state relations, thereby adopting liberal democracy as the normative ideal and examining the potential contribution of African media to development and democratization. Focusing instead on everyday media culture in a range of African countries, this volume contributes to the broader project of provincializing and decolonizing audience and internet studies.