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Environmental Science and Information Application Technology David Chan, 2015-06-29 Environmental Science and Information Application Technology contains selected papers from the 2014 5th International Conference on Environmental Science and Information Application Technology ESIAT 2014 Hong Kong 7 8 November 2014 The book covers a wide variety of topics Global Environmental Change and Ecosystems Management Graphic and I **Additive**

Manufacturing: Materials, Processes, Quantifications and Applications Jing Zhang, Yeon-Gil Jung, 2018-05-17 Additive Manufacturing Materials Processes Quantifications and Applications is designed to explain the engineering aspects and physical principles of available AM technologies and their most relevant applications It begins with a review of the recent developments in this technology and then progresses to a discussion of the criteria needed to successfully select an AM technology for the embodiment of a particular design discussing material compatibility interfaces issues and strength requirements The book concludes with a review of the applications in various industries including bio energy aerospace and electronics This book will be a must read for those interested in a practical comprehensive introduction to additive manufacturing an area with tremendous potential for producing high value complex individually customized parts As 3D printing technology advances both in hardware and software together with reduced materials cost and complexity of creating 3D printed items these applications are quickly expanding into the mass market Includes a discussion of the historical development and physical principles of current AM technologies Exposes readers to the engineering principles for evaluating and quantifying AM technologies Explores the uses of Additive Manufacturing in various industries most notably aerospace medical energy and electronics **Modified Nanomaterials for Environmental Applications** Onoyivwe Monday Ama, Suprakas

Sinha Ray, Peter Ogbemudia Osifo, 2021-11-16 This book focuses on the electrochemical and nanostructural properties of new photoanode electrolyte combinations used in the development of novel surface modified nanomaterials for environmental applications As water treatment is rapidly becoming a global challenge due to the increasing complexity and number of the various pollutants present the book explores fundamental issues relating to environmental applications of nanomaterials It addresses relevant topics ranging from electrochemical synthesis and characterization to applications of photoanodes in corrosion prevention and biosensors for wastewater treatment Featuring up to date experimental results on nanomaterials for detection of pharmaceuticals and heavy metals in wastewater this contributed volume is useful to electrochemical researchers materials scientists and chemical and civil engineers interested in advanced photoelectrochemical research for environmental applications **Enhanced Chitosan Material for Water Treatment** Ephraim Igberase, Peter Ogbemudia

Osifo, Tumiasang Seodigeng, Ikenna Emeji, 2021-04-29 This book reviews some of the latest developments in the field of water treatment using multi functional chitosan based materials It covers the production of chitosan beads and membranes from chitosan powder as well as modification techniques for enhancing the material for commercial and industrial purposes The

book summarizes the results of experimental adsorption desorption studies for elucidating the underlying reaction mechanism of heavy metal removal from wastewater presenting an advanced overview of an array of characterization techniques such as Fourier transform infrared spectroscopy thermogravimetric analysis x ray diffraction and scanning electron microscopy Additionally it features a look at the development and application of specialized engineering software and image analysis for modelling the kinetics of adsorption This book is ideal for scientists and engineers working in the broader field of environmental materials science It is all well suited for chemists as well as industrial and civil engineers interested in wastewater treatment and mitigation of water pollution *Predictive Intelligence Using Big Data and the Internet of Things* Gupta, P.K.,Ören, Tuncer,Singh, Mayank,2018-12-28 With the recent growth of big data and the internet of things IoT individuals can now upload retrieve store and collect massive amounts of information to help drive decisions and optimize processes Due to this a new age of predictive computing is taking place and data can now be harnessed to predict unknown occurrences or probabilities based on data collected in real time Predictive Intelligence Using Big Data and the Internet of Things highlights state of the art research on predictive intelligence using big data the IoT and related areas to ensure quality assurance and compatible IoT systems Featuring coverage on predictive application scenarios to discuss these breakthroughs in real world settings and various methods frameworks algorithms and security concerns for predictive intelligence this book is ideally designed for academicians researchers advanced level students and technology developers

Corporate governance practices promoting the sustainability of small, medium and microenterprises in South Africa Medicine Magocha,Martha Matashu,2025-02-21 Corporate governance practices promoting the sustainability of small medium and microenterprises in South Africa critically examines the intersection of corporate governance and the sustainability of small enterprises Addressing a significant gap in the literature this scholarly work explores whether and how corporate governance frameworks enhance the long term viability of small medium and microenterprises SMMEs Through rigorous analysis each chapter contributes unique insights to the ongoing discourse offering scholars a comprehensive understanding of governance mechanisms that foster resilience and growth in the SMME sector **Research Methods: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2015-01-31 Across a variety of disciplines data and statistics form the backbone of knowledge To ensure the reliability and validity of data appropriate measures must be taken in conducting studies and reporting findings Research Methods Concepts Methodologies Tools and Applications compiles chapters on key considerations in the management development and distribution of data With its focus on both fundamental concepts and advanced topics this multi volume reference work will be a valuable addition to researchers scholars and students of science mathematics and engineering Deanship in the Global South Oliver J.J. Seale,2021-02-08 The university today is a postmodern neo liberal competitive boundary less knowledge conglomerate a far cry from its historical traditional classical and collegial roots There is a body of literature on

deanship that points to its evolving nature in the contemporary academe characterised by complexity and change Balancing academic demands simultaneously with the requirements for effective performance leadership and management lies at the heart of this very challenging bridging role nowadays Deans are generally former academics emerging from a traditional collegial space and often catapulted into the relatively unknown domain of executive management with its related problems Deans nowadays are required to be more than collegial intellectual leaders They are also meant to be fiscal and human resource experts fundraisers politicians and diplomats Deanship in the Global South Bridging Troubled Waters is about the deans lived reality as they try to balance the demands of both the academe from which they emerge and the administration to whom they now need to account Their lack of preparation and inadequate support points to the need for a more strategic integrated approach to leadership development within their critical bridging roles between the academe and administration

Digital Leadership for Sustainable Higher Education Saad, Wan Zuhainis, Alias, Nor Aziah, Chong, Chou Min, Sabri, Suriana, 2025-06-04 Higher Education management and academics are currently faced with the task of balancing a market and competition based education versus values based education as people trudge through the Anthropocene era when humans have a substantial impact on the planet The holistic and comprehensive nature of higher education that aims to instill a range of ethical moral and social values in students is paramount The graduates that enter the workforce must unfailingly become responsible members of society and inadvertently contribute to the nation s prosperity and global harmony Strong leadership and the agency to keep learning are unavoidable Furthermore the vast technological advances may drive practices that prioritize social responsibility sustainability and well being Digital Leadership for Sustainable Higher Education presents key parameters for transforming higher education in response to the significant and unforeseen changes in the educational landscape It explores the vast technological advances together with the complexities of the higher education ecosystem and proposes ways to uphold purpose driven practices Covering topics such as digital health credentialing and nurturing empathy this book is an excellent resource for educators higher education leaders technologists sustainability experts professionals researchers scholars academicians and more *Electronic Government and the Information Systems Perspective* Andrea Kő, Enrico Francesconi, 2015-08-10 This book constitutes the refereed proceedings of the 4th International Conference on Electronic Government and the Information Systems Perspective EGOVIS 2015 held in Valencia Spain in September 2015 in conjunction with DEXA 2015 The 26 revised full papers presented together with one invited talk were carefully reviewed and selected from 30 submissions The papers are organized in the following topical sections semantic technologies in e government identity management in e government e government cases open innovation and G cloud intelligent systems in e government open government e government solutions and approaches Paper-based Diagnostics Kevin J. Land, 2018-12-11 This book explores the status of paper based diagnostic solutions or Microfluidics 2 0 The contributors explore how paper based tests can be widely distributed and utilized by semi skilled personnel how close to

commercial applications the technology has become and what is still required to make paper based diagnostics the game changer it can be The technology is examined through the lens of the World Health Organization s ASSURED criteria for low resource countries Affordable Sensitive Specific User friendly Rapid and robust Equipment free and Deliverable to end users Its applications have to include health technology environmental technology food safety and more This book is appropriate for researchers in these areas as well as those interested in microfluidics and includes chapters dedicated to principles such as theory of flow and surface treatments components such as biomarkers and detection and current methods of manufacturing Discusses how paper based diagnostics can be used in developing countries by comparing current diagnostic tests with the World Health Organization s ASSURED criteria Examines how paper based diagnostics could be integrated with other technologies such as printed electronics and the Internet of Things Outlines how semi skilled personnel across a variety of fields can implement paper based diagnostics

Corrupted Jonathan D Jansen,2023-02-01 In South African higher education the images of dysfunction are everywhere Student protests Violence Police presence Rubber or real bullets Class disruptions Burning tyres Damaged buildings Injury and sometimes death Reports of wholesale corruption Year after year often in the same set of universities the problem of routine instability seems insoluble The financial academic and reputational costs of ongoing dysfunction are high especially for those universities caught up in the never ending struggle to overcome apartheid legacies Any number of explanations have been ventured including a lack of resources shortage of capacity rural location corrupt officials and endemic conflict Corrupted takes a deeper look at dysfunction in an attempt to unravel the root causes in a sample of South African universities At the heart of the problem lies the vexed issue of resources or more pertinently the relationship between resources and power who gets what and why Whatever else it aspires to be commonly a place of teaching learning research and public duty a university in an impoverished community is also a rich concentration of resources around which corrupt staff students and those outside of campus all vie for access Taking a political economic approach Jonathan Jansen describes the daily struggle for institutional resources and offers accessible sensible insights He argues that the problem won t be solved through investments in capacity building alone because the combination of institutional capacity and institutional integrity contributes to serial instability in universities Rather durable solutions would include the depoliticisation of university councils and appointments of academics with integrity and capacity to manage and lead these fragile institutions This groundbreaking and long overdue study will offer a promising way forward for universities to better serve their communities and the country more broadly

Proceedings of the 13th World Conference on Titanium Vasisht Venkatesh,Adam L. Pilchak,John E. Allison,Sreeramamurthy Ankem,Rodney R. Boyer,Julie Christodoulou,Hamish L. Fraser,M. Ashraf Imam,Yoji Kosaka,Henry J. Rack,Amit Chatterjee,Andy Woodfield,2016-04-26 This book contains the Proceedings of the 13th World Conference on Titanium

Redefining Education and Development Kaitano Dube,2024-10-18 The book aligns with the United Nations Sustainable Development Goals SDGs particularly Goal 4

which focuses on quality education It explores the evolving role of education as a critical driver for achieving all 17 SDGs by providing a platform for discussing innovative educational models and theories that foster sustainable development The book takes an interdisciplinary approach merging educational theory developmental practice and human psychology to address complex global challenges hindering sustainable development The book includes case studies and empirical research such as exploring student entrepreneurship in the agricultural sector and the factors bridging the gap between entrepreneurial intention and venture creation These examples provide readers with practical applications of theoretical concepts and demonstrate the real world impact of educational innovations which is at the core of education delivery for all and how education touches on other areas of the SDGs The book offers valuable insights for policymakers educators and development practitioners by presenting research and theory based analyses It suggests ways to improve the academic environment to foster entrepreneurship and innovation which are key to economic development and job creation especially in regions with high youth unemployment rates The content suggests educational reforms that are responsive to the changing societal and economic landscapes The book s blend of theory and practice targets a broad audience including academic scholars students development agencies non governmental organisations and policymakers It seeks to engage these diverse readers in a conversation about the future of education and its role in achieving sustainable development In summary the book seeks to provide a comprehensive exploration of the nexus between education development and human needs in the context of the SDGs offering innovative perspectives and practical solutions to equip readers to contribute to sustainable global development

Utilisation of South African Research on Higher Education Jan Botha ,Gabriele Vilyte ,2021-10-26 The relationship between research on the one hand and policy practice on the other hand is complicated and collaboration between scholars in research on higher education RHE and institutional research IR practitioners is often lacking This book marks a collaborative effort of a diverse range of South African RHE and IR scholars and asks the overarching questions What do we know about the utilisation of South African research on higher education SARHE and its subset of research known as Institutional Research How and by whom is this research used The book begins by looking at the historical underpinnings of SARHE and delineating the shape and size of this body of research This is followed by a series of case studies on South African Higher Education institutions and governmental bodies investigating how when and by whom are research on higher education and institutional research used in the decision making of these organisations This book is the first of its kind in South Africa and sets out to lay the groundwork for further research into the use uptake and utilisation of RHE and IR in this country [Contextualised Critical Reflections on Academic Development Practices](#) Teboho

Pitso,2021-04-20 This book offers insightful reflections on academic development practices The contributors engage the reader painstakingly in the dynamics of professional learning and effective teaching This volume facilitates the examination of the need for reflection that leads to professional maturity All educational institutions seek teachers who continuously

search for effective strategies in improving student success The contributors uncover a variety of approaches as they evince proven suggestions The chapters are refreshing and edifying This book is essential for all teachers lecturers and trainers who want to improve their teaching practice immensely Professor Vuyisile T Msila Researcher at the Thabo Mbeki African School of Public and International Affairs University of South Africa *Southern Resistance in Critical Perspective* Marcel Paret, Carin Runciman, Luke Sinwell, 2017-03-27 From the Arab Uprising to anti austerity protests in Europe and the US Occupy Movement to uprisings in Brazil and Turkey resistance from below is flourishing Whereas analysts have tended to look North in their analysis of the recent global protest wave this volume develops a Southern perspective through a deep engagement with the case of South Africa which has experienced widespread popular resistance for more than a decade Combining critical theoretical perspectives with extensive qualitative fieldwork and rich case studies *Southern Resistance in Critical Perspective* situates South Africa's contentious democracy in relation to both the economic insecurity of contemporary global capitalism and the constantly shifting political terrain of post apartheid nationalism The analysis integrates worker community and political party organizing into a broader narrative of resistance bridging historical divisions between social movement studies labor studies and political sociology *Handbook of Research on Smart Technology Applications in the Tourism Industry* Çeltek, Evrim, 2020-01-17 In today's modernized society certain technologies have become more applicable within many professional fields and are much easier to implement This includes the tourism industry where smart technology has provided a range of new marketing possibilities including more effective sales tactics and delivering a more personalized customer experience As the scope of business analytics continues to expand professionals need research on the various applications of smart technology within the field of tourism The *Handbook of Research on Smart Technology Applications in the Tourism Industry* is an essential reference source that discusses the use of intelligent systems in tourism as well as their influence on consumer relationships Featuring research on topics such as digital advertising wearable technology and consumer behavior this book is ideally designed for travel agents tour developers restaurateurs hotel managers tour directors airlines marketers researchers managers hospitality professionals policymakers business strategists researchers academicians and students seeking coverage on the use of smart technologies in tourism

Business Research Pieter W. Buys, Merwe Oberholzer, 2023-03-14 This book focuses on research methodologies that apply to business research particularly for researchers and managers embarking thereon to support managerial decision making in the industry In doing so the book's objective is to guide business researchers in identifying defining and applying rigorous academic methodologies that will enable them to formulate design and execute effective research that answers their specific management problems Such guidance can empower organizational managers to understand that business research can contribute to practical solutions to actual problems experienced in the industry In addition by emphasizing the integrative nature between 1 academic research and 2 experienced industry problems it becomes possible to foster an awareness of

such research's potential impact on organizational performance management sustainability and resilience. With that attention is given to narrowing the gap between theory and practice which requires that fundamentals of scientific research be adhered to while maintaining the delicate balance between a practice friendly guide to pragmatically sound and academically rigorous business research.

Proceedings of 9th Edition of International Conference on BIOFUELS AND BIOENERGY 2018 EuroScicon, 2018-03-23 March 29-30 2018 Edinburgh Scotland. Key Topics: Biomass, Biogas, Bioenergy, Renewable Energy, Biorefineries, Bioethanol, Biodiesel, Aviation Biofuels, Advanced Biofuels, Algal Biofuels, Nanotechnology In Biofuels, Food V S Fuel Debate, Bioeconomy, Energy And Environment, Green Energy And Economy, Advances In Renewable Chemicals, Entrepreneurs Investment Meet.

Decoding **Vaal University Of Technology Applications 2015**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Vaal University Of Technology Applications 2015**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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