



**VAAAL UNIVERSITY  
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# Vaal University Of Technology 2016

**Yaxin Bi, Supriya Kapoor, Rahul Bhatia**



## **Vaal University Of Technology 2016:**

**ICEL2016-Proceedings of the 11th International Conference on e- Learning** Prof. Dr. Rozhan M. Idrus and Dr Nurkhamimi Zainuddin, 2016      University on the Border Lis Lange, Vasu Reddy, Siseko H. Kumalo, 2021-08-27 The volume explores and thinks through the process of decolonising the South African higher education system by examining MustFall. The text offers theoretical insights from a historical contemporary and multidisciplinary lens while examining the embedded meanings of the university as an institution idea and set of practices to show the shifts and changes that were inaugurated by MustFall along with the historicities that define the university both locally and globally. The retro and prospective insights presented in the book surface the crisis of authority that places the university in a state of precarity which is framed in the book as the border. The volume proposes the concept of the border recognising its conceptual and analytical dynamism as a generative space that can facilitate new imaginaries and articulations of this social institution the university.      *Proceedings of SAI Intelligent Systems Conference (IntelliSys) 2016* Yaxin Bi, Supriya Kapoor, Rahul Bhatia, 2017-08-22 These proceedings of the SAI Intelligent Systems Conference 2016 IntelliSys 2016 offer a remarkable collection of papers on a wide range of topics in intelligent systems and their applications to the real world. Authors hailing from 56 countries on 5 continents submitted 404 papers to the conference attesting to the global importance of the conference's themes. After being reviewed 222 papers were accepted for presentation and 168 were ultimately selected for these proceedings. Each has been reviewed on the basis of its originality, novelty and rigorousness. The papers not only present state-of-the-art methods and valuable experience from researchers in the related research areas they also outline the field's future development.      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      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

*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

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

**Accessibility of Digital Higher Education in the Global South** Mashau, Pfano, Farisani, Tshililo Ruddy, 2023-12-01 Accessibility of Digital Higher Education in the Global South authored by Pfano Mashau and Tshililo Farisani from the University of KwaZulu Natal South Africa is an academic book that examines the impact of the COVID 19 pandemic on higher education in Africa The book aims to provide a comprehensive analysis of the sustainability of the new normal approaches in African universities and institutions of learning as well as government responses to teaching and learning processes during and post pandemic The sudden outbreak of COVID 19 triggered demands for informal comfortable and self designed spaces that go beyond conventional formal classrooms where students can take initiative and demonstrate independence in learning However access to digitalized teaching methods remains problematic due to the digital divide among learners and the rural urban dichotomy The book invites researchers academics and scholars in the Global South to contribute to the narrative to document successes in and improve the higher education sector post pandemic The book covers a range of themes including the sustainability of digitalized teaching approaches integrative and interactive teaching and learning theories and practices government responses to teaching and learning processes comparative analysis of conventional and digitalized teaching and learning approaches and equality diversity and participation in digitalized teaching and learning platforms among others

Green Economy in the Transport Sector John Ogoni Odiyo, Peter Bitta Bikam, James Chakwizira, 2021-12-08 This open access book is interdisciplinary and provides cross sectoral and multi dimensional exploration of sustainable development and transportation in South Africa Drawing on work from different disciplines the book contributes not only to academia but also seeks to inform urban and regional policy with the view of contributing to the national aspirations of South Africa as espoused in the National Development Plan NDP 2030 National Spatial Development Framework NSDF Draft 2019 National Climate Change Adaptation Strategy NCASS Draft 2019 Green Transport Strategy for South Africa 2018 2050 and National Transportation Plan NATMAP 2050 Adopting a multi dimensional assessment the book provides a background for co production concerning climate change sustainable development and transportation in the Global South The book contributes in its analysis of the institutional and legislative framework that relates to the climate change skills and knowledge transfer sustainable development and transportation in South Africa as these are responsible for the evolution of the green economy and transport sector in the country The connections among different sectors and issues such as environment transport modes

technology innovation vehicle management and emission control skills and knowledge transfer legislative and policy framework and the wider objectives of the sustainable development goals SDGs especially goals 11 to 13 The success stories relating to climate change sustainable development and transportation in South Africa are identified together with the best possible practices that may inform better environmental urban and regional planning policy practice and management

**Mathematical Biology And Biological Physics** Rubem P Mondaini, 2017-07-14 This is a book on interdisciplinary topics of the Mathematical and Biological Sciences The treatment is both pedagogical and advanced in order to motivate research students as well as to fulfill the requirements of professional practitioners There are comprehensive reviews written by senior experts on the important problems of growth and agglomeration in biology on the algebraic modelling of the genetic code and on multi step biochemical pathways There are new results on the state of the art research in the pattern recognition of probability distribution of amino acids on somitogenesis through reaction diffusion models on the mathematical modelling of infectious diseases on the biophysical modelling of physiological disorders on the sensitive analysis of parameters of malaria models on the stability and hopf bifurcation of ecological and epidemiological models on the viral infection of bee colonies and on the structure and motion of proteins All these contributions are also strongly recommended to professionals from other scientific areas aiming to work on these interdisciplinary fields *Fees Must Fall*

Susan Booysen, 2016-10-01 This book explores the student discontent a year after the start of the 2015 South African FeesMustFall revolt FeesMustFall the student revolt that began in October 2015 was an uprising against lack of access to and financial exclusion from higher education in South Africa More broadly it radically questioned the socio political dispensation resulting from the 1994 social pact between big business the ruling elite and the liberation movement The 2015 revolt links to national and international youth struggles of the recent past and is informed by black consciousness politics and social movements of the international left Yet its objectives are more complex than those of earlier struggles The student movement has challenged the hierarchical top down leadership system of university management and it s double speak of professing to act in workers and students interests yet entrenching a regressive system for control and governance University managements while on one level amenable to change have also co opted students into their ranks to create co responsibility for the highly bureaucratised university financial aid that stands in the way of their social revolution This book maps the contours of student discontent a year after the start of the FeesMustFall revolt Student voices dissect colonialism improper compromises by the founders of democratic South Africa feminism worker rights and meaningful education In depth assessments by prominent scholars reflect on the complexities of student activism its impact on national and university governance and offer provocative analyses of the power of the revolt **Handbook of Research on Administration,**

**Policy, and Leadership in Higher Education** Mukerji, Siran, Tripathi, Purnendu, 2016-09-27 The creation of a sustainable and accessible higher education systems is a pivotal goal in modern society Adopting strategic frameworks and innovative

techniques allows institutions to achieve this objective The Handbook of Research on Administration Policy and Leadership in Higher Education is an authoritative reference source for the latest scholarly research on contemporary management issues in educational institutions and presents best practices to improve policies and retain effective governance Addressing the current state of higher education at an international level this book is ideally designed for academicians educational administrators researchers and professionals

**One World, Many Knowledges** Tar Halvorsen, Peter Vale, 2016-05-12 Various forms of academic co operation criss cross the modern university system in a bewildering number of ways from the open exchange of ideas and knowledge to the sharing of research results and frank discussions about research challenges Embedded in these scholarly networks is the question of whether a global template for the management of both higher education and national research organisations is necessary and if so must institutions slavishly follow the high flown language of the global knowledge society or risk falling behind in the ubiquitous university ranking system Or are there alternatives that can achieve a better more ethically inclined world Basing their observations on their own experiences an interesting mix of seasoned scholars and new voices from southern Africa and the Nordic region offer critical perspectives on issues of inter and cross regional academic co operation Several of the chapters also touch on the evolution of the higher education sector in the two regions An absorbing and intelligent study this book will be invaluable for anyone interested in the strategies scholars are using to adapt to the interconnectedness of the modern world It offers fresh insights into how academics are attempting to protect the spaces in which they can freely and openly debate the challenges they face while aiming to transform higher education and foster scholarly collaboration The Southern African Nordic Centre SANORD is a partnership of higher education institutions from Denmark Finland Iceland Norway Sweden Botswana Namibia Malawi South Africa Zambia and Zimbabwe SANORDs primary aim is to promote multilateral research co operation on matters of importance to the development of both regions Our activities are based on the values of democracy equity and mutually beneficial academic engagement

**Rethinking International Skilled Migration** Micheline van Riemsdijk, Qingfang Wang, 2016-10-04 In today s global knowledge economy competition for the best and brightest workers has intensified Highly skilled workers are an asset to companies knowledge institutions cities and regions as they contribute to knowledge creation innovation and economic growth and development Skilled migrants cross and many times straddle international borders to pursue professional opportunities These spatial relocations provide opportunities and challenges for migrants and the cities and regions they inhabit How have international skilled migratory flows been formed sustained and transformed over multiple spaces and scales How have these processes affected cities and regions And how have multiple stakeholders responded to these processes The contributors to this book bring together perspectives from economic social urban and population geography in order to address these questions from a myriad of angles Empirical case studies from different regions illuminate the multiscaled processes of international skilled migration In particular the contributions rethink skilled

migration theories and provide insights into the experiences of highly skilled labor migrants and international students issues related to transnational activities and return migration and policy implications for both immigrant source and destination countries It also charts a future research agenda for international skilled migration research Rethinking International Skilled Migration provides a comparative perspective on the experiences of skilled migrants across the local regional national and or global scale paying particular attention to spatial and place based dimensions of international skilled migration It will be of interest to scholars and professionals in international migration regional and national development policymakers international businesses and NGOs

*Designing Worlds* Kjetil Fallan, Grace Lees-Maffei, 2016-06 From consumer products to architecture to advertising to digital technology design is an undeniably global phenomenon Yet despite their professed transnational perspective historical studies of design have all too often succumbed to a bias toward Western industrialized nations This diverse but rigorously curated collection recalibrates our understanding of design history reassessing regional and national cultures while situating them within an international context Here contributors from five continents offer nuanced studies that range from South Africa to the Czech Republic all the while sensitive to the complexities of local variation and the role of nation states in identity construction

*Bacilli and Agrobiotechnology* M. Tofazzal Islam, Mahfuz Rahman, Piyush Pandey, Chaitanya Kumar Jha, Abhinav Aeron, 2017-01-24 This volume of comprehensive reviews updates our knowledge of research and commercialization of Bacillus based products in agriculture and the environmental sector The last couple of decades have witnessed tremendous growth of research on Bacillus species Many of these species can produce industrial enzymes and can act simultaneously as biofertilizers and as biopesticides inhibiting important phytopathogens This biocontrol activity is now elucidated by a number of genomic and metabolomic studies Bacillus formulations are being patented and commercialized on a regular basis Understanding the biology ecology and mechanism of action of these bacteria will play a role in the promotion of Bacillus based products to support green technology in agriculture and agro based industries

**Speaking Subjects in Multilingualism Research** Judith Purkarthofer, Mi-Cha Flubacher, 2022-07-22 This book discusses salient moments of multilingual encounters and brings together contributions focused on the interplay between language use by individuals and societies and language related inequalities or opportunities for speakers The chapters demonstrate how biographical and speaker centred approaches can contribute to an understanding of linguistic diversity how researchers can empirically account for lived experiences of languages and how such accounts are embedded in a larger discussion on social inequality Together the chapters make a powerful case for the importance of speaker centred methodologies in multilingual and multilingualism research The book is a rich source of theoretical and methodological reflections and will thus be a valuable resource for both experienced researchers and students beginning to explore biographical research methods

*A Learner's Guide To Academic Success* Mafule Morelearn Moswane, 2016-11-21 A Learners Guide to Academic Success is an inspirational and motivational guidebook for school learners in primary and



secondary school This book is highly recommended for high school learners from Grade 8 all the way to Grade 12 This book is also a useful tool for teachers and parents as they can read and share the message with their learners children Mafule is passionate about education and spends most of his time participating and running FBA projects such as career guidance motivation sessions and mentorship in high schools and tertiary institutions in South Africa Mafule has visited many schools across South Africa to encourage the culture of reading and academic excellence to thousands of learners as a way to help young people access higher levels of education The schools that have been adopted under FBA have been performing very well and the learners have been able to access post school opportunities It is for those reasons that this book is written to reach out to many young people of South Africa who need an inspirational voice This inspirational and motivational guide book is a must read for all learners in South Africa who will like to achieve academic success Online Teaching and Learning in Higher Education Mariam Akinlolu, Manyane Makua, Nomalungelo Ngubane, 2024-06-03 This edited volume explores current practices in African higher education during and post the global pandemic It fills a gap in the existing literature by focusing on student engagement and online learning in South Africa and examines how pandemic restrictions amplified pre existing inequalities within the higher education sector The book is divided into 3 sections The first section discusses various methods of instruction and the use of online tools for facilitating learning succeeded by a section focusing on the resource implications of moving to online learning platforms from a social justice perspective and finally the last section considers issues and concerns about online assessments and quality assurance Drawing on lessons from the experiences of South African educators and students during the pandemic this book provides a knowledge base essential for the effective management of online teaching and learning in Africa It is intended for academic stakeholders to develop and engender an improved higher education climate

**Advanced Manufacturing Techniques Using Laser Material Processing** Akinlabi, Esther Titilayo, Mahamood, Rasheedat Modupe, Akinlabi, Stephen Akinwale, 2016-04-14 The use of lasers in material processing has become a useful method for transforming industrial materials into finished products The benefits of laser material processing are vast including increased precision high processing speed and dustless cutting and drilling Advanced Manufacturing Techniques Using Laser Material Processing explores the latest methodologies for using lasers in materials manufacturing and production the benefits of using lasers in industrial settings as well as future outlooks for this technology This innovative publication is an essential reference source for professionals researchers and graduate level students studying manufacturing technologies and industrial engineering

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