
Dedan Kimathi University Of Technology

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Engineering Pedagogy Towards Outcome-Based Education

AI Ethics in Higher Education: Insights from Africa and Beyond

Sputtered Thin Films

Pandemic Pedagogy

Mukami Kimathi: Mau Mau Woman Freedom Fighter

Information and Communication Technology for Development for Africa

Handbook of Research on Advancements in Manufacturing, Materials, and Mechanical Engineering

Information, Knowledge, and Technology for Teaching and Research in Africa
Advanced Surface Coating Techniques for Modern Industrial Applications
Advancing Africa's Sustainable Development
Smart Anticorrosive Materials
Modern Manufacturing Processes
Thin Film Coatings
Dedan Kimathi on Trial
Space and Geospatial Technologies for the Africa We Want
Handbook of Research on Environmental Education Strategies for Addressing Climate Change and Sustainability
Handbook of Brewing
Handbook of Universities
Fused Deposition Modeling
Expanding Tertiary Education for Well-Paid Jobs

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The Value of a Teacher African Books
Collective

With the growing environment and consciousness of "outcome-based education," the importance of this subject has increased manyfold. Unfortunately, there is little information on engineering pedagogy available outside of scattered journal articles, conference and symposium proceedings, workshop notes, and government and company reports.

This book overcomes these difficulties by presenting, in a single volume, many of the recent advances in the field of engineering pedagogy and its recent developments. Engineering Pedagogy Towards Outcome-Based Education provides a systematic approach to explicit fundamentals as well as recent advances in the area. It incorporates various case studies for major topics as well as numerous academic examples. Each chapter contains many state-of-the-art techniques required for practical engineering applications. This book serves as a useful source of information for

practicing academicians and specialists as well as academic institutions working on the subject.

Communication Technologies for Vehicles Walter de Gruyter GmbH & Co
KG

A Global Perspective on Private Higher Education provides a timely review of the significant growth of private higher education in many parts of the world during the last decade. The book is concurrent with significant changes in the external operating environment of private higher education, including government policy and its impact on the ongoing

growth of the sector. The title brings together the trends relating to the growth and the decline of private higher education providers, also including the key contributing factors of the changes from 17 countries. - Provides a timely review of the significant growth of private higher education in many parts of the world during the last decade - Presents the significant changes in the external operating environment of private higher education - Brings together the trends relating to the growth and the decline of private higher education providers

Private Sector Development in an Emerging World CRC Press

This book constitutes the refereed proceedings of the 15th International Workshop on Communication Technologies for Vehicles, Nets4Cars/Nets4Trains/Nets4Aircraft 2020, held in Bordeaux, France, in November 2020. The 18 full papers were carefully reviewed and selected from 22 submissions. The selected papers present original research results in areas related to the physical layer, communication protocols and standards, mobility and traffic models, experimental and field

operational testing, and performance analysis.

The Trial of Dedan Kimathi CRC Press
Vibration Engineering presents recent developments in the field of engineering, encompassing industrial norms, applications within the finite element method, infrastructure safety assessment, and active vibration control strategies. It offers a study in seismic vibration control and analysis for building structures and liquid storage tanks. Spanning across the multiple domains of vibration engineering, the book highlights machinery diagnostics, modal analysis, energy harvesting, balancing, vibration isolation, and human-vibration interaction. It discusses experimental fault identification in journal bearings using vibration-based methods. This book also considers advances in vibration-based structural health monitoring of civil infrastructures. This book will be a useful reference for industry professionals and engineers facing challenges while dealing with the vibrations in the fields of mechanical, aerospace, structural, and civil engineering.

Global Healthcare Disasters CRC Press

Engineering pedagogy is closely linked to both the technical and the pedagogical sciences. Over the years, engineering pedagogy has shifted from practical education to teaching how to integrate information, computational, and communications technology. However, while pedagogical and psychological qualifications are highly important requirements for a teaching career in engineering, the research on engineering pedagogy remains scant and scattered across journal articles, conference proceedings, workshop notes, and official reports. Methodologies and Outcomes of Engineering and Technological Pedagogy is a collection of innovative research building on the available literature that examines engineering pedagogy while providing resources necessary for policymaking, implementation, and continuous improvement. Featuring coverage on a wide range of topics including curriculum development, teaching and learning styles, and inclusivity, this book is ideally designed for educators, engineers, curriculum developers, instructional designers, managers, industry professionals,

academicians, policymakers, researchers, and students.

Emerging Economic Models for Global Sustainability and Social

Development Edward Elgar Publishing
The Value of a Teacher is not just a book but a library joining together dozens of writings on history, stories, songs, poetry, and speeches on illegal trade in wildlife, air quality, environmental rule of law, the green economy, chemicals and waste, and marine debris. Almost the only common factor is that they all speak to us of teachers, revealing their nature, their ecosystem-based adaptation response to climate change and their catapulting values.

Cambridge Scholars Publishing

While many African countries lag behind the rest of the industrialised world in scientific and medical research and development, the situation is progressively improving. This is why the Society for the Advancement of Science in Africa was established, to contribute to economic advancement and sustainability through science research, education and innovation. This book provides a selection of papers from the Advancement of

Science in Africa's fourth annual conference. The conference was held under the overarching theme of 'science, technology and innovation in Africa', with several important sub-themes, including, but not limited to, improving health research and disease surveillance education; collaborating in research responding to epidemic diseases with high mortality in Africa; and promoting women's interest in science careers. The collection illustrates how, although the chapter contributors come from various countries and universities, representing their own academic research, they all share a common interest in advancing science, technology and innovation in Africa.

Nanomaterials and Nanocomposites

IGI Global

Smart Anticorrosive Materials: Trends and Opportunities covers new developments in nanoscale coatings and their current applications. The book addresses fundamental characteristics, synthesis, inhibition mechanisms and applications of green nanomaterials for educational (academic) as well as industrial purposes and provides a chronological overview of

the growth of the field. The book concludes with discussions about commercialization, economics and environmental considerations. This will be an indispensable reference for scholars, chemical engineers, chemists and materials scientists working in R&D and academia who want to understand corrosion systems and modern advancements on smart coatings. Presents current research and the latest developments in corrosion protection and future opportunities, along with anticorrosive effects of nanomaterials and nanocomposites Focuses on advanced nanomaterials and nanocomposites coatings for industry-oriented practices, including current challenges during manufacturing Includes websites of interest and information the about latest research

Plant and Animal Based Composites

John Wiley & Sons

The transcript from this historic trial, long thought destroyed or hidden, unearths a piece of the British colonial archive at a critical point in the Mau Mau Rebellion. Its discovery and landmark publication unsettles an already contentious Kenyan

history and its reverberations in the postcolonial present. Perhaps no figure embodied the ambiguities, colonial fears, and collective imaginations of Kenya's decolonization era more than Dedan Kimathi, the self-proclaimed field marshal of the rebel forces that took to the forests to fight colonial rule in the 1950s. Kimathi personified many of the contradictions that the Mau Mau Rebellion represented: rebel statesman, literate peasant, modern traditionalist. His capture and trial in 1956, and subsequent execution, for many marked the end of the rebellion and turned Kimathi into a patriotic martyr. Here, the entire trial transcript is available for the first time. This critical edition also includes provocative contributions from leading Mau Mau scholars reflecting on the meaning of the rich documents offered here and the figure of Kimathi in a much wider field of historical and contemporary concerns. These include the nature of colonial justice; the moral arguments over rebellion, nationalism, and the end of empire; and the complexities of memory and memorialization in contemporary Kenya. Contributors: David Anderson, Simon Gikandi, Nicholas Githuku, Lotte

Hughes, and John Lonsdale. Introductory note by Willy Mutunga.

Impact of Global University Ranking Systems on Developing Countries IGI Global

This book brings together a wealth of international case studies to examine transformational entrepreneurship and its multifaceted applications across different sectors, including the arts, business, engineering, government, healthcare, and nonprofits. Contributors illustrate how this distinct form of entrepreneurship can adapt to unpredictable changes, balancing social and economic impact to promote stability and growth.

Additive Manufacturing Applications for Metals and Composites AuthorHouse
 Pandemic Pedagogy: Preparedness in Uncertain Times collates various case studies and other empirical research that examine learning practices and demonstrate approaches to address future catastrophes and continue the pandemic recovery process.

The Status of Student Involvement in University Governance in Kenya IGI Global
 Expanding Tertiary education with quality, relevance and equity is one of the most

decisive challenges for Kenya's future, including the achievement of the ideals of the 2010 Constitution and, especially, its 2030 vision, which aims at transforming Kenya into a "newly industrializing, middle income, globally competitive and prosperous country†?. That is because tertiary education can contribute in a critical manner to successfully overcome several of the country's challenges. This book provide analysis and policy recommendations to Government of Kenya, tertiary education leaders and the many stakeholders on managing the massive tertiary education expansion facing the country. This book, first, discusses the motivation for the analysis and its choice of three critical topics: quality and relevance; governance, and student financing. Secondly, it reviews findings on each area, and, third, it ends with a set of policy recommendations.

Sustainable Tourism Dialogues in Africa CRC Press

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, bio-medical engineering, biomaterials, and aerospace engineering.

Vibration Engineering Woodhead Publishing

Nanomaterials and Nanocomposites: Characterization, Processing, and Applications discusses the most recent research in nanomaterials and nanocomposites for a range of applications as well as modern characterization tools and techniques. It deals with nanocomposites that are dispersed with nanosized particulates and carbon nanotubes in their matrices (polymer, metal, and ceramic). In addition, the work: Describes different nanomaterials, such as metal and metal oxides, clay and POSS, carbon nanotubes, cellulose, and biobased polymers in a structured manner Examines the processing of carbon nanotube-based

nanocomposites, layered double hydroxides, and cellulose nanoparticles as functional fillers and reinforcement materials Covers size effect on thermal, mechanical, optical, magnetic, and electrical properties Details machining and joining aspects of nanocomposites Discusses the development of smart nanotextiles (intelligent textiles), self-cleaning glass, sensors, actuators, ferrofluids, and wear-resistant nanocoatings. This book enables an efficient comparison of properties and capabilities of these advanced materials, making it relevant for materials scientists and chemical engineers conducting academic research and industrial R&D into nanomaterial processing and applications.

Cases on Transformational Entrepreneurship Elsevier

Mũkami Kĩmathi: Mau Mau Woman

Freedom Fighter is the story of the brave wife of one of Kenya's foremost freedom fighters, Field Marshal Dedan Kĩmathi Waciũri. Kĩmathi led the Mau Mau war in Kenya's independence struggle against the British colonialists. Mũkami's role as a daughter, wife, mother, freedom fighter and leader is varied and very complex. Her

story spans pre and post-independent Kenya. Her experiences provide an important complement to existing written literature on Kenya's history. In 2003, the Mwai Kibaki Government lifted the ban put in place by the British colonialists declaring the Mau Mau as terrorists, and recognised Mũkami Kĩmathi and other freedom fighters as national heroes and heroines celebrated on 20th October as Mashujaa Day. This book gives an insight into the role of women freedom fighters and the struggles they faced both during and after the war. It is an incredible story of immense self-sacrifice and love for Kenya. Mũkami provides the lens to see the wider picture of women in the independence struggle, the neglect and betrayal of wives of Mau Mau fighters in particular and women in general in Kenya's making. Beyond her role in the independence struggle, Mũkami's story has many historical highlights such as time shared with Kĩmathi, meeting Nelson Mandela and her fruitful and strong relationship with Kenya's human rights movement.

The Green Belt Movement Springer
The recent COVID-19 global pandemic

exemplifies the need for efficient, reliable, and real-time tools and technology for forecasting and predicting healthcare disasters as well as for helping to restrict the subsequent spread and fatality of deadly diseases. This new book discusses many of the innovative and state-of-the-art tools and technology that can help meet the challenges of predicting such disasters. The chapters offer a plethora of useful information for designing healthcare disaster management systems that can be dynamically configurable with implementation of today's modern technology, such as cloud computing, artificial intelligence, IoT, data analytics, and machine learning. These can increase effectiveness in remote sensing technologies, data analytics, data storage, communication networks, geographic information system (GIS), and global positioning System (GPS), to name a few. This book discusses mathematical models using graph-based approaches for analyzing dynamic, heterogeneous, and unstructured data for applications in epidemiology. The authors also address the use of mobile applications for communication efforts and remote

monitoring for gauging health and the effectiveness of preventive healthcare measures. The chapters discuss influencing factors that directly or indirectly target public health infrastructure that can lead to or exacerbate global health crises, such as extreme climate changes, refugee health crises, terrorism and cyberterrorism, and technology-related incidents. The book further looks at efficient methods to analyze disasters and how to deliver healthcare in areas of conflict and crisis. This important volume, *Global Healthcare Disasters: Predicting the Unpredictable with Emerging Technologies*, provides a bounty of useful information for health professionals, academicians, researchers, governmental agencies, and policymakers across the world to predict, mitigate, and manage global health disaster with emerging technologies.

Methodologies and Outcomes of Engineering and Technological Pedagogy
Chandos Publishing
The Trial of Dedan Kimathi Waveland Press
Kenya After 50 Springer Nature
Wangari Maathai, founder of The Green Belt Movement, tells its story including the

philosophy behind it, its challenges, and objectives.

Transformative Innovation in Times of Change Ohio University Press

This open access book tackles the pressing problem of integrating concerns related to Artificial Intelligence (AI) ethics into higher education curriculums aimed at future AI developers in Africa and beyond. For doing so, it analyzes the present and future states of AI ethics education in local computer science and engineering programs. The authors share relevant best practices and use cases for teaching, develop answers to ongoing organizational challenges, and reflect on the practical implications of different theoretical approaches to AI ethics. The book is of great interest to faculty members, researchers, and students in the fields of

artificial intelligence, computer science, mathematics, computer engineering, and related areas, as well as higher education administration.

A Global Perspective on Private Higher Education IGI Global

Modern Manufacturing Processes draws on the latest international research on traditional and non-traditional practices, to provide valuable advice on the digitization and automation of the manufacturing industry. In addition to providing technical details for the correct implementation of the latest tools and practices, the impacts on productivity and design quality are also examined. The thorough classification of manufacturing processes will help readers to decide which technology is most effective for their requirements, and comparisons between modern and traditional methods will clarify the case for

upgrading. This comprehensive assessment of technologies will include additive manufacturing, and industry 4.0, as well as hybrid methods where exceptional results have been gained through the use of traditional technology. This collection of work by academics at the cutting edge of manufacturing research will help readers from a range of backgrounds to understand and apply these new technologies. - Explains how the correct implementation of modern manufacturing processes can help a factory gain the characteristics of an industry 4.0 business - Explores what the main technical and business drivers for new manufacturing processes are today - Provides detailed classifications and comparisons of traditional, non-traditional, and hybrid manufacturing processes

Best Sellers - Books :

- [The Boy, The Mole, The Fox And The Horse By Charlie Mackesy](#)
- [Haunting Adeline \(cat And Mouse Duet\) By H. D. Carlton](#)
- [Kindergarten, Here I Come!](#)
- [Feel-good Productivity: How To Do More Of What Matters To You](#)
- [If He Had Been With Me By Laura Nowlin](#)
- [The Psychology Of Money: Timeless Lessons On Wealth, Greed, And Happiness](#)

- [Beyond The Story: 10-year Record Of Bts](#)
- [The Five-star Weekend](#)
- [A Court Of Silver Flames \(a Court Of Thorns And Roses, 5\)](#)
- [Guess How Much I Love You By Sam Mcbratney](#)