

Defining Technological Innovation University Of Pretoria

Artificial Intelligence and Precision Oncology Exploring the Gut Microbiome in Cancer Whole Brain® Learning in Higher Education Advancing Brain Cancer Care Architecture, State Modernism and Cultural Nationalism in the Apartheid Capital Medicinal Plants for Holistic Health and Well-Being South African national bibliography Juta's Statutes of South Africa Research Report South African journal of library and information science Knowledge for Sustainable Development Transactions of the Geological Society of South Africa Third International Congress on Cactus Pear and Cochenille CSIR Publications National Union Catalog South African Journal of Antarctic Research The Capture and Care of Wild Animals International Journal of the Sociology of Language South Africa Information Series *Zodwa Dlamini Zodwa Dlamini Ann-Louise de Boer Zodwa Dlamini Hilton Judin Namrita Lall South Africa University of Pretoria Unesco Geological Society of South Africa Paolo Inglese South African Council for Scientific and Industrial Research E. Young*

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this book highlights the use of artificial intelligence ai big data and precision oncology for medical decision making in cancer screening diagnosis prognosis and treatment precision oncology has long been thought of as ideal for the management and treatment of cancer this strategy promises to revolutionize the treatment control and prevention of cancer by tailoring tests treatments and predictions to specific individuals or population groups in order to accomplish these goals vast amounts of patient or population group specific data needs to be integrated and analysed to be able to identify key patterns or features which can be used to define or characterize the disease or the response to the disease in these individuals these patterns or

features can be as varied as molecular patterns or features in medical images this level of data analysis and integration can only be achieved through the use of ai the book is divided into three parts starting with a section on the use of artificial intelligence for screening diagnosis and monitoring in precision oncology the second part artificial intelligence and omics in precision oncology highlights the use of ai and epigenetics metabolomics microbiomics in precision oncology the third part covers artificial intelligence in cancer therapy and its clinical applications it also highlights the use of ai tools for risk prediction early detection diagnosis and accurate prognosis this book written by experts in the field from academia and industry will appeal to cancer researchers clinical oncologists pathologists medical students academic teaching staff and medical residents interested in cancer research as well as those specialising as clinical oncologists

this book explores the relationship between the gut microbiome and cancer illuminating various facets from fundamental roles to personalized therapies it provides a comprehensive overview of the impact of the gut microbiome on cancer development offering potential for innovative diagnostic and treatment approaches the book discusses the role of dysbiosis in cancer development the influence of the microbiome on treatment responses and strategies to modulate the microbiome for enhanced therapies it reviews the influence of the gut microbiome on immunotherapy resistance and chemoresistance in cancer patients additionally the book presents gut microbiome biomarkers for cancer diagnosis and prognosis the implication of the gut brain axis on cancer development and progression and the impact of diet and lifestyle on the microbiome towards the end the book investigates the role of the gut microbiome in pediatric cancer and provides an outlook on the future challenges technological advancements and ethical considerations of gut microbiome research in the context of personalized cancer therapies this book is intended for cancer researchers medical oncologists clinicians pharmacologists translational investigators and medical students

facilitating of learning in higher education can be transformed through the use of whole brain learning whole brain learning in higher education argues that facilitating learning in higher education should undergo transformation in order to develop the full academic potential of all stakeholders following the principles of action research empirical data was collected from participants in a number of projects across diverse disciplines participants included students academic staff instructional designers and professionals attending short courses at tertiary level a number of case studies are discussed as evidence for the value of the proposed model for higher education this title consists of seven chapters covering the theoretical framework baseline study professional development studies in whole brain application learning material that makes a difference multidisciplinary collaboration and the way forward defines whole brain learning explains the rationale behind whole brain learning demonstrates how the model can be applied in facilitating whole brain learning in order to develop the full academic potential of students

advancing brain cancer care precision ai innovation and african insights delves into the intricate challenges of brain tumor management offering cutting edge solutions tailored to individual patients emphasizing the african perspective it explores the use of innovative technologies to bridge care gaps and improve outcomes in underserved regions by combining science technology and regional expertise the book offers hope for patients and practitioners alike beyond its focus on brain tumor care the book highlights the ethical considerations of ai integration into healthcare systems it examines how precision medicine can reshape treatment pathways while addressing inequities in global access to care additionally it provides a deep dive into collaborative efforts across continents showcasing case studies and actionable insights that push the boundaries of conventional healthcare solutions this vital resource is both an inspiration and a guide for those committed to advancing cancer care worldwide emphasizes the transformative role of precision medicine and artificial intelligence ai in tailoring brain tumor treatments addresses critical aspects of brain tumor management including diagnostics therapeutic innovations neurosurgical techniques and the application of emerging technologies like nanomedicine highlights unique challenges and opportunities within the african context ensuring that the content is relevant to both global and local audiences

this book is the first comprehensive investigation of the architecture of the apartheid state in the period of rapid economic growth and political repression from 1957 to 1966 when buildings took on an ideological role that was never remote from the increasingly dominant administrative legislative and policing mechanisms of the regime it considers how this process reflected the usurpation of a regional modernism and looks to contribute to wider discourses on international postwar modernism in architecture buildings in pretoria that came to embody ambitions of the apartheid state for industrialisation and progress serve as case studies these were widely acclaimed projects that embodied for apartheid officials the pursuit of modernisation but carried latent apprehensions of afrikaners about their growing economic prospects and cultural estrangement in africa it is a less known and marginal story due to the dearth of material and documents buried in archives and untranslated documents many of the documents drawings and photographs in the book are unpublished and include classified material and photographs from the national nuclear research centre negatives of 1960s from pretoria news and documents and pamphlets from afrikaner broederbond archives state architecture became the most iconic public manifestation of an evolving expression of white cultural identity as a new generation of architects in pretoria took up the challenge of finding form to their prospects and beliefs it was an opportunistic faith in afrikaners who urgently needed to entrench their vulnerable and contested position on the african continent the shift from provincial town to apartheid capital was swift and relentless little was left to stand in the way of the ambitions and aim of the state as people were uprooted and forcibly relocated structures torn down and block upon block of administration towers and slabs erected across pretoria this book will be of great interest to students and scholars of architectural history as well as those with an interest in postcolonial

studies political science and social anthropology

medicinal plants for holistic health and well being discusses in depth the use of south african plants to treat a variety of ailments including tuberculosis cancer periodontal diseases acne postmacular hypomelanosis and more plants were selected on the basis of their traditional use and the book details the scientific evidence that supports their pharmacological and therapeutic potential to safely and effectively treat each disease thus this book is a valuable resource for all researchers students and professors involved in advancing global medicinal plant research many plants found in south africa are also found in other parts of the world each chapter highlights plants from other worldwide locations so that scientists can study which plants belong to the same family and how similar qualities can be used to treat a specific disease the book details the scientific evidence that supports their pharmacological and therapeutic potential to safely and effectively treat each disease each chapter highlights plants from worldwide locations so that scientists can study plants belonging to the same family and how similar species can be used to treat a specific disease use of traditional medicine as an efficient means to identify and further investigate south african similar plants and plant derived compounds in modern drug discovery includes a number of chapters dedicated to using medicinal plants to treat various skin disorders which is often not covered in other books on medicinal plants organized by specific diseases with vital evidence based data related to the bioactivity pharmacological potential chemical structure and safety information

classified list with author and title index

some volumes accompanied by annexure

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