

Durban University Of Technology Dut Handbook

This book inquires into the global wave of student mobilizations that have arisen in the aftermath of the economic crisis of 2008, accounting for their historical and sociological significance. More specifically, its eleven chapters explore the role of students as political actors: their ability to build effective organizations, to make political alliances with other actors, and to win public consensus, as well as their impact on cultural, political, and policy outcomes. To do so, the volume examines case studies in England, Chile, South Africa, Quebec, and Hong Kong, covering Europe, Africa, Asia, and North and Latin America. Grouped into two major sections, the collection covers the organizational structures of student movements and their alliances and outcomes. Ultimately, this volume examines the understudied political aspects of student unrest, exploring how student mobilizations driven by indebtedness, precariousness, the corporatization of the university, and other issues correspond to larger processes of change with wider implications in society. Lorenzo Cini is a political sociologist on the Faculty of Political and Social Sciences of the Scuola Normale Superiore of Florence, Italy. Donatella della Porta is Professor of Political Science, Dean of the Faculty of Political and Social Sciences, and Director of the PhD program in Political

Science and Sociology at the Scuola Normale Superiore in Florence, Italy. Cesar Guzman-Concha is a Marie Skodowska-Curie Fellow at the University of Geneva, Switzerland.

The book is the result of a five-year project that culminated (within the first three years) in doctoral research interrogating language competency for meaningful mathematics instruction at upper primary level conducted at University of Stellenbosch in 2017; and this book in the succeeding two years. The initial research project received countrywide coverage in several South African media outlets including Times Live and Radio 2000.

This book discusses current theory regarding global mobile satellite communications (GMSC) for maritime, land (road and rail), and aeronautical applications. It covers how these can enable connections between moving objects such as ships, road and rail vehicles and aircrafts on one hand, and on the other ground telecommunications subscribers through the medium of communications satellites, ground earth stations, Terrestrial Telecommunication Networks (TTN), Internet Service Providers (ISP) and other wireless and landline telecommunications providers. This new edition covers new developments and initiatives that have resulted in land and aeronautical applications and the introduction of new satellite constellations in non-geostationary orbits and

projects of new hybrid satellite constellations. The book presents current GMSC trends, mobile system concepts and network architecture using a simple mode of style with understandable technical information, characteristics, graphics, illustrations and mathematics equations. The first edition of Global Mobile Satellite Communications (Springer, 2005) was split into two books for the second edition—one on applications and one on theory. This book presents global mobile satellite communications theory.

The book argues that academics, academic developers and academic leaders need to undertake curriculum work in their institutions that has the potential to disrupt common sense notions about curriculum and create spaces for engagement with scholarly concepts and theories, to re?imagine curricula for the changing times. Now, more than ever in the history of higher education, curriculum practices and processes need to be shared; the findings of research undertaken on curriculum need to be disseminated to inform curriculum work. We hope the book will enable readers to look beyond their contextual difficulties and constraints, to find spaces where they can dream, and begin to implement, innovative and creative solutions to what may seem like intractable challenges or difficulties.

This book presents the principal structure, networks and applications of the

Global Aeronautical Distress and Safety System (GADSS) for enhanced airborne Communication, Navigation and Surveillance (CNS). It shows how their implementation works to ensure better security in flight and on the airports surface; improved aircraft tracking and determination in real space and time; and enhanced distress alerting, safety; and Search and Rescue (SAR) system for missing, hijacked and landed aircraft at sea or on the ground. Main topics of this book are as follows: an overview of radio and satellite systems with retrospective to aeronautical safety; security and distress systems; space segment with all aspects regarding satellite orbits and infrastructures; transmission segment of radio and satellite systems; ground segment of radio and earth ground stations; airborne radio and satellite antenna systems and propagation; aeronautical VHF and HF Radio CNS systems and networks; Inmarsat, Iridium and Cospas-Sasrast aeronautical satellite CNS systems and networks; Aeronautical Global Satellite Augmentation System (GSAS) and networks; Digital Video Broadcasting - Return Channel via Satellite (DVB-RCS) standards and Aeronautical Stratospheric Platform Systems (SPS) and networks.

Premised on the disruption and lessons learnt from the Covid-19 pandemic, and in meticulous response to the impact of the pandemic on higher education – especially in South Africa – this collection of chapters spotlights the effects, consequences, and

ramifications of an unprecedented pandemic in the areas of knowledge production, knowledge transfer and innovation. With the pandemic, the traditional way of teaching and learning was completely upended. It is within this context that this book presents interdisciplinary perspectives that focus on what the impact of Covid-19 implies for higher education institutions. Contributors have critically reflected from within their specific academic disciplines in their attempt to proffer solutions to the disruptions brought to the South African higher education space. Academics and education leaders have particularly responded to the objective of this book by focusing on how the academia could tackle the Covid-19 motivated disruption and resuscitate teaching, research, and innovation activities in South African higher education, and the whole of Africa by extension.

This book offers a comprehensive reference guide for the theory and practice of intelligent and fuzzy techniques in Aviation 4.0. It provides readers with the necessary intelligent and fuzzy tools for Aviation 4.0 when incomplete, vague, and imprecise information or insufficient data exist in hand, where classical modeling approaches cannot be applied. The respective chapters, written by prominent researchers, explain a wealth of both basic and advanced concepts including baggage services, catering services, check-in and boarding services, maintenance and cargo management, security, etc. To foster reader comprehension, all chapters include relevant numerical examples or case studies. Taken together, they form an excellent reference guide for

researchers, lecturers, and postgraduate students pursuing research on Aviation 4.0. Moreover, by extending all the main aspects of Aviation 4.0 to its intelligent and fuzzy counterparts, the book presents a dynamic snapshot of the field that is expected to stimulate new directions, ideas, and developments.

This edited book is a compilation of research studies conducted in the areas of business, management and economics. These cutting-edge articles will be of interest to researchers, academics, and business managers.

Cultures of violence are characteristic of many countries in sub-Saharan Africa and attempts to move towards cultures of peace have often proved difficult and ineffectual. And yet, the wide variations in levels of violence within and between countries show that it is not inevitable; rather, it is the result of choices made at individual, community and societal levels. This book examines the potential of peace infrastructures as vehicles to strengthen and spread progress towards cultures of peace. Peace infrastructures vary hugely in sophistication and level. The examples examined in this book range from tiny structures which help resolve conflicts between individuals and within community organisations, peace committees which serve local communities, peace education and peace club programmes in schools, mediation mechanisms to prevent election violence and to ministries of peace to coordinate government and non-government efforts in peacemaking and peacebuilding. The overall finding is that the development of peace infrastructures at all levels has great potential to build cultures of

peace. 1. It is the only book available which documents the experience and potential of nonviolence in post-independence sub-Saharan Africa. 2. It makes a persuasive case for the development of various peace infrastructures in order to make peace sustainable. 3. It explains how strategic planning can be utilised, both to bring about change and to institutionalise it.

International openness is one of the fundamental characteristics of the DiAP Department of Architecture and Design, which sees its members active in 57 bilateral collaboration agreements (without counting the Erasmus agreements) with countries in which today there is a demand for architectural design that looks at Italy as a model, not only for studies of historical architecture, but also for contemporary architecture designed in the existing city and for the new building, including complex landscape and environmental systems.

This book addresses key aspects of corporate social responsibility (CSR) and explores them from a variety of perspectives in a case study on the Marange diamond mines in Zimbabwe. The business case of the Marange mines is presented to demonstrate the challenge of practicing social responsibility while considering and balancing the needs of a developing nation, environmental protection, community involvement and international business. Lessons learned from the case study will help business leaders and strategists in developing countries and multinational corporations to better understand and employ CSR principles so as to enhance sustainability and social

impact. Further, the book provides a unique combination of academic, industrial and local approaches.

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Acting on HIV offers a sustained and relatively systematic inquiry into drama as an approach to discussion of HIV/AIDS and related attitudes and behaviors. A distinctive feature of the research that is presented in Acting on HIV is the emphasis on the potential for and value of using drama to promote vital social change in addition to individual behaviour change. It has a strong theoretical foundation and seeks to interrogate the ethical, theoretical and practical complexities of using drama to address issues HIV & AIDS. The research that is communicated through the book is original and timely and will make a significant, trans-disciplinary contribution to scholarly conversations about the role/s and significance of drama in addressing issues of HIV & AIDS. Acting on HIV will have appeal to scholars working within drama and performance studies and those involved in interdisciplinary work or working in the fields of social work, education, sociology, psychology, cultural and media studies, gender studies, criminology, and critical human and social sciences generally including studies of HIV, sexuality and public health among others. Furthermore, the book targets community practitioners, teachers and researchers interested in drama for social change; arts based research methods and drama in education.

This publication makes a valuable contribution to often problematic and pertinent South African higher education issues such as student access and success, student learning, student support and student engagement. In this regard, the authors draw on the works of higher education theorists such as Kuh, Tinto, Marton and Saeljoe. The book is

primarily a helpful resource for South African learners in school, students at universities, life orientation teachers, as well as parents of prospective university students. It will especially assist students to adapt to the university environment. This book constitutes the refereed proceedings of the European Conference on Information Literacy, ECIL 2013, held in Istanbul Turkey, in October 2013. The 73 revised full papers presented together with two keynotes, 9 invited papers and four doctoral papers were carefully reviewed and selected from 236 submissions. The papers are organized in topical sections on overview and research; policies and strategies; theoretical framework; related concepts; citizenship and digital divide; disadvantaged groups; information literacy for the workplace and daily life; information literacy in Europe; different approaches to information literacy; teaching and learning information literacy; information literacy instruction; assessment of information literacy; information literacy and K-12; information literacy and higher education; information literacy skills of LIS students; librarians, libraries and ethics.

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.

Undoubtedly the most important development in higher education in recent years has been the seemingly inexorable expansion of national systems. In a comparatively short time period many countries have moved from an elite to a mass model. Furthermore, expansion has invariably changed the whole experience of higher education for all the interested parties from, presidents, rectors and vice-chancellors to first-term undergraduates. Structuring Mass Higher Education examines the impact of this change upon the existing national structures of higher education. It also defines and highlights what makes an 'elite' university – something which institutions must strive for in order to gain their position as global players. With case studies and contributions from a wide

range of international authors, the book explores questions such as: Do higher education institutions retain a national significance, even though the vestiges of an international reputation have long faded? Has expansion undermined the quality of higher education because governments sought to expand "on the cheap"? Is the elite institutional response to mass higher education perceived as a threat to be responded to with purposeful action that sustains their elite status? Does the emergence of the international league tables pose a challenge to those responsible for governing elite institutions? These are critical issues with which both policy-makers and institutional leaders will have to grapple over the next ten years, making Structuring Mass Higher Education a timely, relevant, and much needed text. It will appeal to policy makers and practitioners within higher education as well as student and scholars worldwide.

The city of Durban is one of the most intriguing for architects and urban designers, due to its cultural and economic diversity on one the hand and its political evolution since its colonial formalisation, apartheid influences and its post-apartheid evolution, on the other. It is a city that expresses complex narratives in architectural form and expression, seemingly chaotic, yet within and upon a cogent overall structure. Perhaps, it is that very cogency in urban structure which facilitated its complex evolution, or perhaps not. This paradox forms the crux of

the studies and applied research part of this book, and which defined the sites of focus for a collaborative studio workshop. Durban is a modern city which expresses the complex dynamics of an African city emerging from a historically colonial foundation. This provided an interesting context for engagement of the UNESCO Chair for Sustainable Urban Quality and Culture, notably in Africa. The institutional agreement between the UNESCO Chair, Sapienza University of Rome and the Durban University of Technology (DUT) was formalised in the year 2013, prior to an international workshop in China and the UIA 2014 in Durban, South Africa. The focus of the Chair and the curriculum outcomes of DUT, with regard to urban culture and the evolution thereof, created a mutually opportune association, with the possibility for contribution to the UIA 2014 conference in Durban. After deliberations and the necessary paperwork, the UNESCO Chair, in Association with DUT, were granted official space on the UIA Programme for presentation at the conference. This was received with much enthusiasm, which drew further interest and participation from students and Professors of Sapienza University of Rome and Tsinghua University of Beijing in China. Further representation of academics from Manipal University in India, School of Architecture University of Florida and Hosei University in Japan added much value to the collaboration in Durban.

This book presents the proceedings of the 1st International Conference on Maritime Education and Development. The conference exchanges knowledge, experiences and ideas in the domain of maritime education and development, with the ultimate goal of generating new knowledge and implementing smart strategies and actions. Topics include the 4th Industrial Revolution (4IR); unmanned air/sea surface/underwater vehicles (UxV); the digital divide and Internet accessibility; digital infrastructure; IMO E-navigation strategy; smart-ship concept; automation and digitalization; cyber security; and maritime future. This proceedings pertains to researchers, academics, students, and professionals in the realm of maritime education and development. Presents the proceedings of the 1st International Conference on Maritime Education and Development, Durban University of Technology, Durban, South Africa, November 23-24, 2020; Provides a comprehensive view of maritime education and development in the 4th Industrial Revolution (4IR); Pertinent to researchers, academics, professionals and students across maritime education and development. Governments around the world are committed to enhancing students' "graduateness". Work-integrated learning (WIL) is one of the many programmes which Higher Education Institutions (HEIs) can develop to promote this facet of student life. The incorporation of work-integrated learning in curriculum design

and development can produce reciprocal benefits for students, workplaces, professions and communities. Any curriculum design and development endeavour relating to WIL requires appropriate resources to support curriculum development. This book serves to explore WIL programmes and experiences for the student, WIL coordinator and supervisor. It further integrates practical, relevant and reflective industry experience within the higher education curriculum to enhance student development. WIL has no uniform or specific framework or approaches since it is an emerging field and is generally influenced by contextual factors. In view of the diversity in theory and practice and different purposes, whether pragmatic or practical, driving the adoption of one approach over another, this book highlights the diverse approaches that encapsulate WIL in South Africa.

This book presents the principal structure of space systems, functionality, media and applications for modern remote sensing, transmission systems, meteorological antennas, propagation meteorological observation and transferring weather data from satellite to the ground infrastructures and users. The book starts with a short background to the development of Radio and Space systems including overview, concepts and applications of satellite communications in function of transfer meteorological observation data and images. It goes on to discuss the fundamental

principles of the space platforms and orbital parameters, laws of satellite motions, new types of launching systems, satellite orbits and geometric relations, spacecraft configuration, payload structure, type of onboard antenna systems, satellite orbits and components of satellite bus. The author also provides comprehensive coverage of baseband and transmission systems, fundamentals of atmospheric electromagnetic radiation, satellite meteorological parameters and instruments, and research and applications in antenna systems and propagation. This is a companion book of Global Satellite Meteorological Observation Applications (Springer).

This book covers the applications of Artificial Neural Networks (ANN) in water resources. These include real time applications, irrigation water use, wastewater use, reservoir operation, and other agricultural water uses. The chapters are arranged to benefit the readers on the basics of ANN and demonstrate many models that can be used for complex water resources problems. It educates the readers on how to use ANN tools to solve complex problems of water resources, which can be adapted to other real world applications with some modifications.

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