



River Publishers

River Publishers Book Catalogue

Series in Management Sciences and
Engineering

River Publishers Series in Management Sciences and Engineering

Higher Education for Sustainable Development Goals

Editors:

Carolina Machado, University of Minho, Portugal

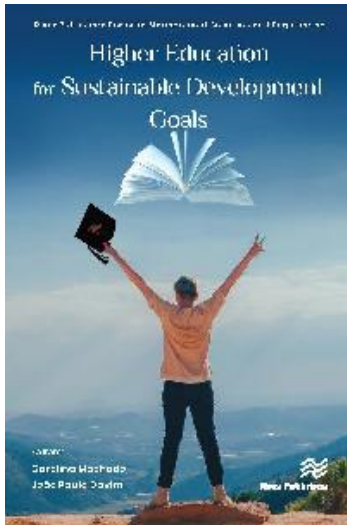
João Paulo Davim, University of Aveiro, Portugal

ISBN: 9788770224314

e-ISBN: 9788770224307

Price: £ 0.00 | \$ 95.00

Distributed exclusively by Routledge



Description:

This book looks to cover the issues related to advances in higher education for sustainable development goals. Nowadays, sustainable development is an important concept in higher education. One of the most widely recognized definition is based in Brundtland report as "development that meets the needs of the present without compromising the ability of future generations to meet their own needs". The three core pillars of sustainable development are environment, society and economy. Currently, higher education in the context of sustainable development goals (SDGs) is a great challenge. The information about higher education for sustainable development presents great interest to improve communication between, professors, researches and students in universities, institutes, colleges, etc.

This research book covers all aspects of higher education for sustainable development goals, namely, no poverty, zero hunger, good health and wellbeing, quality education, gender equality, clean water and sanitation, affordable and clean energy, decent work and economic growth, industry, innovation, and infrastructure, reduced inequalities, sustainable cities and communities, responsible consumption and production, climate action, life bellow water, life on land, peace, justice and strong institutions, partnerships.

Keywords: Higher education; Sustainable development goals (SDGs), Universities

River Publishers Series in Management Sciences and Engineering

Engineering Education for Sustainability

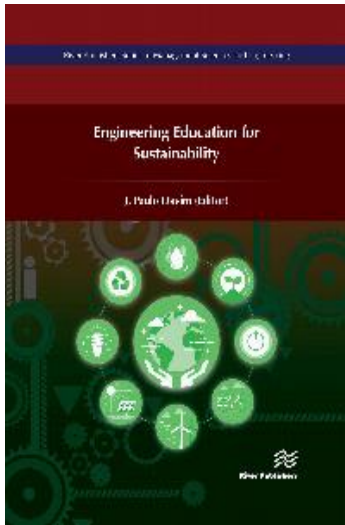
Editor: João Paulo Davim, University of Aveiro, Portugal

ISBN: 9788770221047

e-ISBN: 9788770221030

Available From: August 2019

Price: € 90.00



Description:

Understood to be a key issue in modern society, sustainability is characterized by its three essential pillars, namely: the environment, society and the economy. Education plays an important role in how people understand and accept sustainability. The integration of sustainability in engineering education is a relatively new phenomenon, and presenting information about engineering education for sustainability is of great interest to improve communication between professors, researchers and students at universities, institutes and research laboratories.

Topics discussed in the book include:

- Experiences from 5 years of educating sustainability to computer science students
- Review of decision support methods in green and sustainable supply chains
- Analyzing the drivers of engineering education for sustainability using the MCDM approach
- Visualization technologies in construction education: a comprehensive review of recent advances
- A legal framework and compliance with construction safety laws and regulations

Keywords: Sustainability, Engineering Education, Construction Education, Green Engineering, sustainable supply chains

River Publishers Series in Management Sciences and Engineering

Managing People at Work **A New Paradigm for the 21st Century**

Authors:

Murali Chemuturi, Chemuturi Consultants, USA

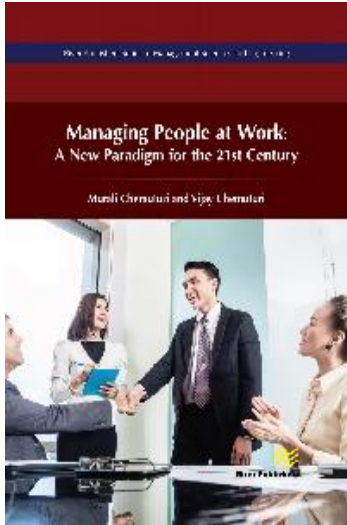
Vijay Chemuturi, KPMG, USA

ISBN: 9788770221085

e-ISBN: 9788770221078

Available From: August 2019

Price: € 95.00



Description:

The organizational environment in the 21st century is not what it was in the 20th Century. It metamorphosed with bulk outsourcing and computer-based decision support tools, and easily coupled with low-cost PC hardware which has created improvements in the productivity of the people, resulting in the reduced numbers. Managers of today manage the results expected of the position rather than managing to get things done as it was expected.

In the physical sciences, academia leads the industry whilst in social sciences like management, marketing and economics, industry leads academia. To bridge the knowledge gap that exists between theory and practice, two practitioners from the industry have authored *Managing People at Work - A New Paradigm for the 21st Century*.

Specific new concepts discussed in this book include:

- Organizational framework for effective management of people
- Capacity planning to optimize the numbers and the costs
- Acquisition of Human Resources to take advantage of outsourcing and freelancers
- Managing people at work or work management
- Employee relations of geographically spread workforce
- Motivation and morale detailing only the effective models and a model developed and used effectively by the authors
- Performance management supplanting the performance appraisals
- Skill retention and development
- Attrition management rather than employee retention
- Roles and responsibilities of different agencies in the organization to ensure effective human resources management
- Tools used in HRM

Keywords: Personnel management, human resources management, training, capacity planning, skill retention; skill development; organizational framework; motivation, morale; work management; performance management, R & R, roles and responsibilities, acquisition, acquisition of human resources, induction training, types of training, in-company training, skill development, webinar, measurement, metrics, attrition management, HR department

River Publishers Series in Management Sciences and Engineering

Sustainable Human Resource Management: Policies and Practices

Editor: Carolina Machado, University of Minho, Portugal

ISBN: 9788770221207

e-ISBN: 9788770221191

Available From: August 2019

Price: € 90.00



Description:

Sustainable Human Resource Management: Policies and Practices covers issues related to sustainable human resource management in a context where organizations are continually facing significant challenges related to the continuous change in the market, as well as in the environment. Organized in different chapters, the book includes contributions from renowned international researchers in the field of sustainability and organizations, and human resource management.

providing recent research advances on Sustainable Human Resource Management, it can be used in an undergraduate management and engineering course (for example, management, human resource management, industrial, manufacturing, economics, etc.), or as a subject on human resource management and industrial engineering at the postgraduate level. Also, this book can serve as a useful reference for academics, researchers, managers and manufacture and industrial engineers, as well as all professionals who work in fields related to management and human resource management, sustainability and industrial engineering

Keywords: Sustainability, Human Resource Management, Policies and Practices, Sustainable HRM

River Publishers Series in Management Sciences and Engineering

Corporate Social Responsibility in Management and Engineering

Editors:

Carolina Machado, University of Minho, Portugal

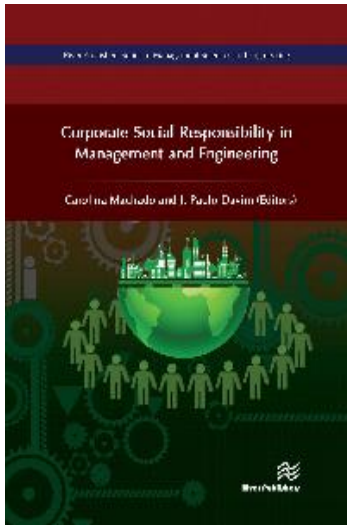
João Paulo Davim, University of Aveiro, Portugal

ISBN: 9788793609617

e-ISBN: 9788793609600

Available From: March 2018

Price: € 90.00



Description:

Referring to an organizations responsibility for their impact on society, corporate social responsibility (CSR) is greatly relevant for the competitiveness, sustainability and innovation in the management and engineering arena of organizations, and the economy worldwide. Taking in account its these concerns, *Corporate Social Responsibility in Management and Engineering* covers the issues related to corporate social responsibility in management and engineering in a context where organizations are facing, day after day, high challenges for what concerns issues related to their social responsibility. The book looks to contribute to the exchange of experiences and perspectives about the state of the research related to CSR, as well as the future direction of this field of research. It looks to provide a support to academics and researchers, as well as those that operating in the management field need to deal with policies and strategies related to CSR.

Keywords: Corporate social responsibility, management, engineering, competitiveness, sustainability

River Publishers Series in Management Sciences and Engineering

Advanced Mathematical Techniques in Science and Engineering

Editors:

Mangey Ram, Graphic Era University, India

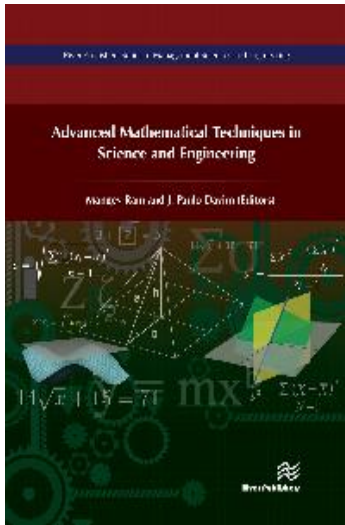
João Paulo Davim, University of Aveiro, Portugal

ISBN: 9788793609341

e-ISBN: 9788793609334

Available From: January 2018

Price: € 90.00



Description:

In recent years, mathematical techniques applied to novel disciplines within the science and engineering have experienced extraordinary growth. *Advanced Mathematical Techniques in Science and Engineering* focusses on a detailed range of mathematics applied within various fields of science and engineering for different tasks. Topics of focus include:

- Analysis of Consensus-Building Time in Social Groups
- Modeling of intersystem accidents in critical infrastructure systems
- Stochastic approaches to analysis and modeling of multi-sources and big data
- Performance evaluation of computational DoS attack on access point in Wireless LANs
- Ranking methods for decision-making under uncertainty
- Understanding time delay based Modeling & Diffusion of technological products
- Role of soft computing in science and engineering
- Complex system reliability analysis and optimization
- Tree growth models in forest ecosystems modelling

This research book can be used as a reference for students in a final year undergraduate engineering course, such as mechanical, mechatronics, industrial, computer science, information technology, etc. Furthermore, the book can serve as a valuable reference for academics, engineers and researchers in these and related subject areas.

Keywords: Social groups, technical committees for standardization, consensus, regular Markov chains, cellular automaton model, time to attain consensus, critical infrastructure systems, intersystem accidents, Stochastic algorithms, big data, satellite observations, social dynamics, security, crisis control, WLAN security, denial of service (DoS), computational DoS, flooding DoS, lightweight authentication, computation algorithm, ranking methods, innovation diffusion process, infinite server queuing approach, soft computing, complex bridge system, supplementary variable technique, reliability optimization, particle swarm optimization, multi-objective optimization.

River Publishers Series in Management Sciences and Engineering

Higher Education Institutions in a Global Warming World **The transition of Higher Education Institutions to a Low Carbon Economy**

Editors:

Ulisses M. Azeiteiro, University of Aveiro, Portugal

Walter Leal Filho, Hamburg University of Applied Sciences, Germany

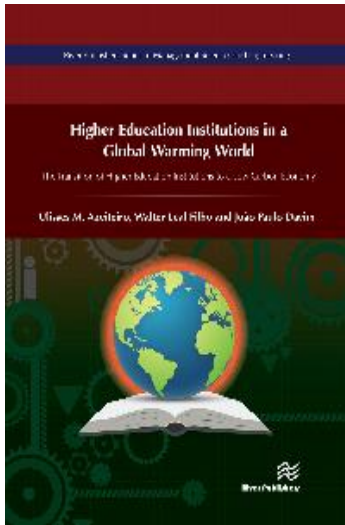
João Paulo Davim, University of Aveiro, Portugal

ISBN: 9788793609204

e-ISBN: 9788793609198

Available From: November 2017

Price: € 80.00



Description:

Higher Education Institutions in a Global Warming World aims to contribute to the global debate on Sustainability in Higher Education, and in particular to the transition of Higher Education Institutions to a Low Carbon Economy.

The transition of Higher Education Institutions towards a Low Carbon Economy is aligned with the Paris Agreement, and with Sustainable Development Goal 13: Take urgent action to combat climate change and its impacts. It is also consistent with the European Commission's Climate strategies and targets and with the aims of the European Climate Change Program.

Transitioning to a low carbon economy represents one of the most significant and urgent challenges we are facing, and Universities have a critical role to play in fostering a low carbon future, especially by developing innovative solutions. This book intends to be a contribution to this discussion about Sustainability in Higher Education, namely the transition of Higher Education Institutions to a Low Carbon Economy.

Keywords: Carbon management, climate change mitigation initiatives, curriculum innovation and campus greening, University's Green programmes, low carbon development based curriculum, carbon footprint assessments, environmentally sustainable transportation policies for HEI, ranking for SD in HEI and sustainability challenges