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2020-11-16

## BURCH BEST

*Intelligent Systems and Computer Technology* Taylor & Francis  
Advances in manufacturing and industrial engineering in terms of advanced and latest technologies are required nowadays to attend the accelerated demands of high quality, productivity, and sustainability simultaneously. This book fulfils the requirement by offering unique comprehensive chapters on advances in manufacturing and industrial engineering technologies with an emphasis on Industry 4.0. This book sheds light on advances in the field of manufacturing and industrial engineering for enhancement in productivity, quality, and sustainability. It comprehensively covers the recent developments, latest trends, research, and innovations being carried out. 3D printing, green manufacturing, computer integrated manufacturing, cloud manufacturing, intelligent condition monitoring, advanced forming, automation, supply chain optimization, and advanced manufacturing of composites are covered in this book. Industry 4.0 based technologies for mechanical and industrial engineering are also presented with both a theoretical and a practical focus. This book is written for students, researchers, professors, and engineers working in the fields of manufacturing, industrial, materials science, and mechanical engineering.

Collected Papers. Volume XI CRC Press

*Palm Trees and Fruits Residues: Recent Advances for Integrated and Sustainable Management* places the wastes of palm trees and fruit residues in the international context of sustainable development, providing sustainable applications that are detailed based on sector to help readers from specific fields identify applications. Furthermore, successful processing case studies using valorization are presented. As the expansion of palm tree fruit crops processing industries (manufacture of syrup, honey, non-alcoholic beverages, flours, confectionery products, fruit paste, etc.) is generating growing quantities of wastes in different forms, this book covers sustainable aspects. Written by an international team of contributors, this title is aimed at professionals and enterprises who aspire to develop real, high-scale industrial applications for palm tree and fruit residue valorization. Includes palm tree wastes and fruit processing by-products, their quantification and classification Brings identification, quantification and characterization of palm-tree and fruit wastes Thoroughly explores biotechnological, agricultural, environmental and energy applications of fruit processing by-products Contains case studies of a palm tree fruit processing by-products valorization

**Fabrication and Machining of Advanced Materials and Composites** Springer Nature

*Implementing Automated Road Transport Systems in Urban Settings* provides valuable, objective, often difficult-to-obtain data, gleaned from the largest demonstration project on automated road transport systems (ARTS) in the world to date. The book features chapters authored by those deeply involved in CityMobil2—providing an easily accessible, cross-referenced

resource for data and information on each aspect of the project. Chapters cover vehicle technical specifications, infrastructure analysis, operating systems, future scenario analysis, automated and conventional vehicle comparisons, and legal frameworks for system implementation. The book examines project field tests, showing the technology's adaptability and different requirements based on geographic location. Government officials, researchers, and transportation practitioners require real-world data and analysis in their efforts to bring automated and intelligent transport systems into the mainstream. The CityMobil2 demonstration transported more than 60,000 passengers in seven European cities, providing immense amounts of feedback and data to be analyzed. The book provides international expert opinion on this real-world data, highlighting the strengths and weaknesses of the project, as well as providing comparisons to both past and planned ARTS demonstration initiatives. The technical specifications developed from the project will help cities considering similar ARTS initiatives. Presents real-world data and valuable analysis from CityMobil2, the world's largest demonstration project on automated road transport systems (ARTS) Assists policy makers seeking to implement their own ARTS, providing technical specifications, infrastructure analysis, as well as legal considerations Features a companion website with links to CityMobil2 demonstration videos, as well as links to detailed project documents Presents findings from CityMobil2, such as effects on daily trips per capita, average journey distance, and occupancy rate, and how they can affect the development of future ARTS projects Provides future ARTS scenario analysis, with information on planned, similar demonstrations

4th EAI International Conference on Management of Manufacturing Systems Springer Nature

This eleventh volume of *Collected Papers* includes 90 papers comprising 988 pages on Physics, Artificial Intelligence, Health Issues, Decision Making, Economics, Statistics, written between 2001-2022 by the author alone or in collaboration with the following 84 co-authors (alphabetically ordered) from 19 countries: Abhijit Saha, Abu Sufian, Jack Allen, Shahbaz Ali, Ali Safaa Sadiq, Aliya Fahmi, Atiqa Fakhar, Atiqa Firdous, Sukanto Bhattacharya, Robert N. Boyd, Victor Chang, Victor Christianto, V. Christy, Dao The Son, Debjit Dutta, Azeddine Elhassouny, Fazal Ghani, Fazli Amin, Anirudha Ghosha, Nasruddin Hassan, Hoang Viet Long, Jhulaneswar Baidya, Jin Kim, Jun Ye, Darjan Karabašević, Vasilios N. Katsikis, Ieva Meidutė-Kavaliauskienė, F. Kaymarm, Nour Eldeen M. Khalifa, Madad Khan, Qaisar Khan, M. Khoshnevisan, Kifayat Ullah,, Volodymyr Krasnoholovets, Mukesh Kumar, Le Hoang Son, Luong Thi Hong Lan, Tahir Mahmood, Mahmoud Ismail, Mohamed Abdel-Basset, Siti Nurul Fitriah Mohamad, Mohamed Loey, Mai Mohamed, K. Mohana, Kalyan Mondal, Muhammad Gulfam, Muhammad Khalid Mahmood, Muhammad Jamil, Muhammad Yaqub Khan, Muhammad Riaz, Nguyen Dinh Hoa, Cu Nguyen Giap, Nguyen Tho Thong, Peide Liu, Pham Huy Thong, Gabrijela Popović, Surapati Pramanik, Dmitri Rabounski, Roslan Hasni, Rumi Roy, Tapan Kumar Roy, Said

Broumi, Saleem Abdullah, Muzafer Saračević, Ganeshsree Selvachandran, Shariful Alam, Shyamal Dalapati, Housila P. Singh, R. Singh, Rajesh Singh, Predrag S. Stanimirović, Kasan Susilo, Dragiša Stanujkić, Alexandra Şandru, Ovidiu Ilie Şandru, Zenonas Turskis, Yunita Umniyati, Alptekin Ulutaş, Maikel Yelandi Leyva Vázquez, Binyamin Yusoff, Edmundas Kazimieras Zavadskas, Zhao Loon Wang.

*Food Structure and Functionality* World Scientific

This reference text discusses processing, structure, and properties of metal matrix composites, polymer matrix composites, and ceramic matrix composites for applications in high end engineering equipment, biomedical and nano-biotechnology areas. The text begins by discussing fundamentals, classification, designing and fabrication of composite materials, followed by ultrasonic vibration assisted machining of advanced materials, fabrication of transparent advanced composites, fabrication of composites via microwave sintering, and hybrid machining of metal-matrix composites. It covers important topics including fabrication of shape-memory polymers, additive manufacturing for the fabrication of composites, 3D printing processes for biomedical applications, and ultrasonic vibration assisted machining of advanced materials. The text will be useful for undergraduate, graduate students, and academic researchers in areas including materials science, mechanical engineering, manufacturing science, aerospace engineering, electronics and communication engineering. The book- Covers processing, structure, and properties of metal matrix composites, polymer matrix composites, and ceramic matrix composites. Discusses nano materials and their potential applications in the area of biomedical and nano-biotechnology. Provides modern processing techniques to synthesize advance materials. Explores applicability of the materials using mechanical, chemical, thermal and electrical tests. Discussing advanced materials, their manufacturing techniques and applications in diverse areas including automotive, aerospace engineering, biomedical, this text will be useful for undergraduate, graduate students, and academic researchers in areas including materials science, mechanical engineering, manufacturing science, aerospace engineering, electronics and communication engineering. It will further discuss electro discharge machining of steels using chromium alloy-based electrodes, and advanced machining techniques for hard materials.

*Recent Advances in Mathematics, Statistics and Computer Science* Springer

Numerical Methods in Geotechnical Engineering IX contains 204 technical and scientific papers presented at the 9th European Conference on Numerical Methods in Geotechnical Engineering (NUMGE2018, Porto, Portugal, 25–27 June 2018). The papers cover a wide range of topics in the field of computational geotechnics, providing an overview of recent developments on scientific achievements, innovations and engineering applications related to or employing numerical methods. They deal with subjects from emerging research to engineering practice, and are grouped under the following themes: Constitutive modelling and numerical implementation Finite element, discrete element and other numerical methods. Coupling of diverse methods Reliability and probability analysis Large deformation – large strain analysis Artificial intelligence and neural networks Ground flow, thermal and coupled analysis Earthquake engineering, soil dynamics and soil-structure interactions Rock mechanics Application of numerical methods in the context of the Eurocodes Shallow and deep foundations Slopes and cuts Supported excavations and retaining walls Embankments and dams Tunnels and caverns (and pipelines) Ground improvement and reinforcement Offshore geotechnical engineering Propagation of vibrations Following the

objectives of previous eight thematic conferences, (1986 Stuttgart, Germany; 1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy; 2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands), Numerical Methods in Geotechnical Engineering IX updates the state-of-the-art regarding the application of numerical methods in geotechnics, both in a scientific perspective and in what concerns its application for solving practical boundary value problems. The book will be much of interest to engineers, academics and professionals involved or interested in Geotechnical Engineering.

**Lean Engineering for Global Development** Elsevier

These proceedings contain research papers that were accepted for presentation at the 14th International Conference Inter-Eng 2020 ,Interdisciplinarity in Engineering, which was held on 8–9 October 2020, in Târgu Mureş, Romania. It is a leading international professional and scientific forum for engineers and scientists to present research works, contributions, and recent developments, as well as current practices in engineering, which is falling into a tradition of important scientific events occurring at Faculty of Engineering and Information Technology in the George Emil Palade University of Medicine, Pharmacy Science, and Technology of Târgu Mures, Romania. The Inter-Eng conference started from the observation that in the 21st century, the era of high technology, without new approaches in research, we cannot speak of a harmonious society. The theme of the conference, proposing a new approach related to Industry 4.0, was the development of a new generation of smart factories based on the manufacturing and assembly process digitalization, related to advanced manufacturing technology, lean manufacturing, sustainable manufacturing, additive manufacturing, and manufacturing tools and equipment. The conference slogan was “Europe’s future is digital: a broad vision of the Industry 4.0 concept beyond direct manufacturing in the company”.

**Smart Intelligent Computing and Communication Technology** Springer Nature

Sustainable Buildings and Structures: Building a Sustainable Tomorrow collects the contributions presented at the 2nd International Conference on Sustainable Buildings and Structures (Suzhou, China, 25-27 October 2019). The papers aim at sharing the state-of-the-art on sustainable approaches to engineering design and construction, and cover a wide range of topics: Sustainable Construction Materials Sustainable Design in Built Environment Green and Low Carbon Buildings Smart Construction and Construction Management Sustainable Buildings and Structures: Building a Sustainable Tomorrow will be of interest to academics, professionals, industry representatives and local government officials involved in civil engineering, architecture, urban planning, structural engineering, construction management and other relate fields.

**INTER-ENG 2020** Springer Nature

This book is intended to be a valuable addition to students, engineers, scientists, industrialists, consultants and others providing greater insight into wind tunnel designs and their enormous research potential. It is a compilation of works from world experts on subsonic and supersonic wind tunnel designs, applicable to a diverse range of disciplines. The book is organised in two sections. The first section comprises of three chapters on various aspects of stationary and portable subsonic wind tunnel designs, followed by one chapter on supersonic wind tunnel and the final chapter discusses a method to address unsteadiness effects of fan blade rotation. The second section contains four chapters regarding wind tunnel applications across a multitude of engineering fields including civil, mechanical, chemical and

environmental engineering.

Additive and Subtractive Manufacturing Springer Nature Issues in Engineering Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Safety Engineering. The editors have built Issues in Engineering Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Safety Engineering in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Engineering Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

#### **MCDM METHOD FOR N-WISE CRITERIA COMPARISONS AND INCONSISTENT PROBLEMS** Infinite Study

This is an open access book. The covid-19 pandemic today forces humans to do almost all activities from home. Consequently, inventions in many fields of engineering technology are needed to facilitate those activities. First, human activities mainly are based on information technology today and internet connection is very important. People generate, send, and receive data by their smartphones every time and everything is connected to the internet. Equipment becomes smarter to assist the owner. Second, People need powerful, efficient, and smart vehicles and machines in Industry 4.0. Third, the need for energy increases, which causes the decrease of global environmental quality. It needs new technology for saving energy by discovering new technologies in mechanical engineering. Fourth, many technologies emerge as disaster prevention by developing innovations in civil engineering and architecture. The Engineering Faculty of University of Mataram invites engineers and researchers around the world to visit Lombok island and to attend the valuable multi fields conference on science and engineering named "The First Mandalika International Multi-conference on Science and Engineering 2022" or "1st MIMSE 2022". This fruitful event will be the annual conference in Lombok island which is supported by the West Nusa Tenggara Province government. Initially, the 1st MIMSE 2022 consisted of 5 engineering fields are Civil, Architecture, Electrical, Mechanical, and Informatics Engineering.

#### Managing Building Deterioration Elsevier

Materials Selection for Sustainability in the Built Environment: Environmental, Social and Economic Aspects presents the current state-of-the-art when it comes to the decision-making process for choosing construction materials to deliver sustainable construction projects. Aspects covered include the science of enhanced decision-making via operational research and machine learning techniques and how this can be implemented in various disciplines such as architecture, engineering and construction. To this end, the book discusses environmental, economic and social aspects in assessing construction materials and presents different tools and methods that can benefit and facilitate this process. Finally, the book reviews previous publications on construction material selection and presents essential discussions on the role professionals, researchers, contractors and governments play in making more sustainable decisions on the built environment. Presents a lifecycle management-based, systematic and integrated approach for sustainable construction materials selection Discusses the impact of materials selection,

covering every aspect of sustainability (environmental, social and economic aspects) Looks at the concept of the circular economy Provides case studies on decision-making methods in combination with lifecycle sustainability assessments

#### **The 17th International Conference Interdisciplinarity in Engineering** Springer Nature

This unique volume presents the scientific achievements, significant discoveries and pioneering contributions of various academicians, industrialist and research scholars. The book is an essential source of reference and provides a comprehensive overview of the author's work in the field of mathematics, statistics and computer science. Contents: Databased Intrinsic Weights of Indicators of Multi-Indicator Systems and Performance Measures of Multivariate Rankings of Systemic Objects (G P Patil & S W Joshi) Statistical Aspects of SuDoKu-Based Experimental Designs (Jyotirmoy Sarkar & Bikas K Sinha) Multi Criteria Decision Making Model for Optimal Selection of Recovery Facility Location and Collection Routes for a Sustainable Reverse Logistics Network under Fuzzy Environment (J D Darbari, V Agarwal & P C Jha) Optimal allocation of SKU and Safety Stock in Supply Chain System Network (K Gandhi, K Goyal, A Jha & J D Darbari) Bi-Objective Optimization Model for Fault-Tolerant Embedded Systems Under Build-Or-Buy Strategy Incorporating Recovery Block Scheme (R Kaur, S Arora, P C Jha & S Madan) Study of a Problem of Annular Cylinder Under Two-Temperature Thermoelasticity with Thermal Relaxation Parameters (Santwana Mukhopadhyay & Roushan Kumar) Multi-Criteria Advertisement Allocation Model of Multiple Advertisers on a Television Network (G Kaur, S Aggarwal & P C Jha) Computation of Maximum Likelihood Estimates in Three Parameter Weibull for Censored Data (Sanjeeva Kumar Jha) On Statistical Quality Control Techniques Based on Ranked Set Sampling (Md Sarwar Alamand, Arun Kumar Sinha & Rahbar Ali) Approximate Solution for Nonlinear Oscillator with Cubic and Quintic Nonlinearities (Jitendra Singh) Fuzzy DEA Cross-Efficiency Model for Ranking and Performance Evaluation Using Ideal and Anti-Ideal Decision Making Units (Seema Gupta, K N Rajeshwari & P C Jha) Poverty Analysis Using Scan Statistic Methods (Arun Kumar Sinha & Mukesh Kumar) Joint Performance Evaluation Data Envelopment Analysis Problem: An Interactive Approach (Riju Chaudhary, Pankaj Kumar Garg & P C Jha) Stochastic Modeling of a Repairable System Under Different Weather Conditions (S C Malik) Estimation of Risk Surfaces and Identification of District Boundaries for Tuberculosis in North-Eastern Indian States (Sanjeeva Kumar Jha & Ningthoukhongjam Vikimchandra Singh) Optimal Advertisement Allocation for Product Promotion on Television Channels (A Kaul, S Aggarwal, P C Jha & A Gupta) Fitting Linear Regressions: Development and Scope (Pranesh Kumar & J N Singh) The Impact of Family Planning on Fertility in Jharkhand State (Dilip Kumar) Spatial Analysis of AFP Surveillance Strategy for Polio Eradication in India (Pankaj Srivastava & Arun Kumar Sinha) On the Stochastic Modeling and Analysis of Bloom Caster System of Continuous Casting Shop Area of an Integrated Steel Plant (S K Singh) A Generalized Exponential-Lindley Distribution (A Mishra & Binod Kumar Sah) On Estimating the Urban Populations Using Minimum Information (Arun Kumar Sinha, Vijay Kumar & Ravi B P Verma) Fitting of Some Statistical Distributions of Daily Precipitation Data on North West India (NWI) Regions (Ranjan Kumar Sahoo) On Systematic Sampling Strategies for a Varying Sample Size (K B Panda) Estimation of Measurement Variance Under Two-Stage Sampling: Estimation of Population Mean (Pulakesh Maiti) The Interior-Point Revolution in Mathematical Programming and its Place in Applied Mathematics (J N Singh) Combined Exponential Type Estimators of Population Mean in Stratified Random Sampling (R Pandey, K Yadav & N S

Thakur)An Analytical Study on Fractional Fokker-Planck Equation by Homotopy Analysis Transform Method (Jitendra Singh & Rajeev Kumar)L-Primitive Words in Submonoids of a Free Monoid (Shubh Narayan Singh & K V Krishna)Comparison of the Performance of Ranked Set Sampling with the Linear Regression Estimation (Rahbar Ali & Arun Kumar Sinha)Optimal Selection of Logistics Operating Channels for a Sustainable Reverse Supply Chain (Vernika Agarwal, Jyoti Dhingra Darbari & P C Jha)Reliability Measures of a Parallel-Unit System with Arbitrary Distributions of Random Variables (Jitender Kumar, M S Kadyan & S C Malik)Adoption and Evolution of FOSS: Key Factors in the Development of the Apache Web Server (Ranjan Kumar, Subhash Kumar & Sukanta Deb)Android/Tizen Based Artificial Intelligence Techniques for Prognosis and Diagnosis of Electrical Machines (K V Satya Bharath, Sheikh Suhail Muhammad & Priya Ranjan)Performance Analysis of Quality of Service for Different Service Classes in WiMAX Network (Jokhu Lal & Neeraj Tyagi)A Review of Application of Artificial Neural Network in Ground Water Modeling (Neeta Kumari, Gopal Pathak & Om Prakash)Density Based Outlier Detection (DBOD) in Data Mining: A Novel Approach (Govind Kumar Jha, Neeraj Kumar, Prabhat Ranjan & K G Sharma)Enhanced Velocity BPSO and Convergence Analysis on Dimensionality Reduction (Shikha Agarwal, R Rajesh & Prabhat Ranjan)Modification of the Android Operating System to Predict the Human Body Temperature Using Capacitive Touch (Shubhnkar Upadhyay, Avadhesh Singh, Kumar Abhishek & M P Singh)Context-Aware Based Clustering in Wireless Sensor Networks — A Survey (Santu Paul, M P Singh, J P Singh & Prabhat Kumar)Speech Emotion Recognition Using Vowel Onset and Offset Points (Manish Kumar & Jainath Yadav)A Novel Algorithm for Magic Squares (Govind Kumar Jha, Neeraj Kumar, Prabhat Ranjan & A P Shakya)A Note on Intelligent Street Light System (J Satheesh Kumar & C G Sreekaviya)An Overview of Test Case Optimization Using Meta-Heuristic Approach (Sushant Kumar, Prabhat Ranjan & R Rajesh)Smart City Traffic Management and Surveillance System for Indian Scenario (Tarun Kumar, Rohit Kumar Sachan & Dharmender Singh Kushwaha)Improving Attribute Inference Attack Using Link Prediction in Online Social Networks (Ashish Kumar & N C Rathore)A Dynamic Model on Computer Virus (Upendra Kumar)State of the Art In-Service Condition Monitoring Techniques of Rotary Machines (Krishna Kant Agrawal, Shekhar Verma & G N Pandey)Image Segmentation: A survey (K M Pooja & R Rajesh)Empirical Reliability Modeling of Transaction Oriented Autonomic Grid Service (Dharmendra Prasad Mahato & Ravi Shankar Singh)Performance Degradation of Language Identification System in Noisy Environment (Randheer Bagi & Jainath Yadav)Analysis of Software Fault Detection and Correction Processes with Log-Logistic Testing-Effort (Md Zafar Imam, Ishrat Jahan Ara & N Ahmad)Skewness Removal of LEACH Protocol for Wireless Sensor Networks (Vishal Gupta & M N Doja)A Novel Approach for Fast Handoff in WLAN (Mithilesh Patel, Bhavna Singh, Sonam Gupta, Anurag Jajoo & Pavan Kumar Mishra)Facial Expression Recognition Using Histogram of Oriented Gradients (Jyoti Kumari & R Rajesh)Cloud Computing: Comparative Study Own Server vs Cloud Server (Surendra Kumar Singh)Mobile and GIS Framework for Plantations and Nursery (E-Plantations) (Shailesh Kumar Shrivastava & S K Mahendran)Internet Traffic Classification: A Survey (Gargi Srivastava, M P Singh, Prabhat Kumar & J P Singh)Comprehensive Study of Search Engine (Sarowar Kumar, Kumar Abhishek, Abhay Kumar & M P Singh)A Survey on Social Networks: Issues and Attacks (Anubha Maurya & M P Singh)Reduced Rule for Banknote Genuinity (Chhotu Kumar & Anil Kumar Dudyala)A Study on Medical Diagnosis Based on Inter Valued Fuzzy Cluster Analysis (Bhagwan Sahay Meena & Sharmila

Bhattacharjee) Readership: Undergraduate students, graduate students and researchers in mathematics, computer science and statistics.

*Communication and Computing Systems* Elsevier

Building accurate algorithms for the optimization of picking orders is a difficult task, especially when one considers the delays of real-world situations. In warehouse environments, diverse algorithms must be developed to enhance the global performance relating to combining customer orders into picking orders to reduce wait times. The Handbook of Research on Metaheuristics for Order Picking Optimization in Warehouses to Smart Cities is a pivotal reference source that addresses strategies for developing able algorithms in order to build better picking orders and the impact of these strategies on the picking systems in which diverse algorithms are implemented. While highlighting topics such ABC optimization, environmental intelligence, and order batching, this publication examines common picking aspects in warehouse environments ranging from manual order picking systems to automated retrieval systems. This book is intended for researchers, teachers, engineers, managers, and practitioners seeking research on algorithms to enhance the order picking performance.

*Numerical Methods in Geotechnical Engineering IX* MDPI

Recent developments in soft-computation techniques have paved the way for handling huge volumes of data, thereby bringing about significant changes and technological advancements. This book presents the proceedings of the 3rd International Conference on Emerging Current Trends in Computing & Expert Technology (COMET 2020), held at Panimalar Engineering College, Chennai, India on 6 and 7 March 2020. The aim of the book is to disseminate cutting-edge developments taking place in the technological fields of intelligent systems and computer technology, thereby assisting researchers and practitioners from both institutions and industry to upgrade their knowledge of the latest developments and emerging areas of study. It focuses on technological innovations and trendsetting initiatives to improve business values, optimize business processes and enable inclusive growth for corporates, industries and education alike. The book is divided into two sections; 'Next Generation Soft Computing' is a platform for scientists, researchers, practitioners and academics to present and discuss their most recent innovations, trends and concerns, as well as the practical challenges encountered in the field. The second section, 'Evolutionary Networking and Communications' focuses on various aspects of 5G communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It brings together the latest technologies from all over the world, and also provides an excellent international forum for the sharing of knowledge and results from theory, methodology and applications in networking and communications. The book will be of interest to all those working in the fields of intelligent systems and computer technology.

*EG-ICE 2020 Workshop on Intelligent Computing in Engineering* Springer

The economic, social and technological problems have been widely resolved in recent years and multicriteria decision making methods have played a key role [8]. However, the quantity of data, the complexity of the modern world and the recent technological advances have made obviously MCDM methods more challenging than ever, hence the necessity of methods able giving quality solution.

*Handbook of Research on Metaheuristics for Order Picking Optimization in Warehouses to Smart Cities* Walter de Gruyter GmbH & Co KG

The book presents the proceedings of the 4th EAI International Conference on Management of Manufacturing Systems (MMS 2019), which took place in Krynica Zdroj, Poland, on October 8-10, 2019. The conference covered Management of Manufacturing Systems with support for Industry 4.0, Logistics and Intelligent Manufacturing Systems and Applications, Cooperation management and its effective applications. Topics include RFID Applications, Economic Impacts in Logistics, ICT Support for Industry 4.0, Industrial and Smart Logistics, Intelligent Manufacturing Systems and Applications, and much more.

The 16th International Conference Interdisciplinarity in Engineering IOS Press

The book focuses on the integration of intelligent communication systems, control systems, and devices related to all aspects of engineering and sciences. It contains high-quality research papers presented at the 2nd international conference, ICICCD 2017, organized by the Department of Electronics, Instrumentation and Control Engineering of University of Petroleum and Energy Studies, Dehradun on 15 and 16 April, 2017. The volume broadly covers recent advances of intelligent communication, intelligent control and intelligent devices. The work presented in this book is original research work, findings and practical development experiences of researchers, academicians, scientists and industrial practitioners.

Computer Engineering Springer Nature

This book presents the results of a novel investigation into building deterioration and defects in Malaysia's public schools. It sets forth an in-depth theoretical and empirical underpinning the maintenance management of public schools with the view to develop a building deterioration prediction model of building condition based on factors contributing to building defects for school buildings. The approach adopted is mixed method encompassing archived documentation, questionnaire survey and interview of sampled schools in Malaysia. It presents a number of useful tables, graphs and statistical analysis which are useful in understanding the factors contributing to building defects under reference. The prediction model assists the decision making of maintenance management to be more efficient with comprehensive budgeting as well as optimal maintenance and repair work. The book is of relevance to school managers, maintenance management practitioners and academics towards measuring and improving the building condition in schools.

*Harvard Engineering Journal* Digital Press

Additive manufacturing (AM) and subtractive manufacturing (SM) offer numerous advantages in the production of single and multiple components. They provide incomparable design independence and are used to fabricate products in several industries, e.g.: aeronautic, automotive, biomedical, etc. The book presents recent results of processes including 3D printing, SLS (selective laser sintering), EBM (electron beam melting) and Precise Cutting and Drilling.