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Wealth Creation and Poverty Reduction: Breakthroughs in Research and Practice Recent Trends in Intensive Computing Embedded Systems Valmiki Ramayana Handbook of Universities Handbook of Research on Developments and Trends in Industrial and Materials Engineering DIGITAL COMMUNICATION The Role of IoT and Blockchain Problems And Prospects Of Indian Retailing Materials for Advanced Heat Transfer Systems Big Data Analytics and Machine Intelligence in Biomedical and Health Informatics Research Anthology on Reliability and Safety in Aviation Systems, Spacecraft, and Air Transport Handbook of Research on

Automated Feature Engineering and Advanced Applications in Data Science Research Anthology on Changing Dynamics of Diversity and Safety in the Workforce Sixth International Conference on Intelligent Computing and Applications Computational Intelligence in Data Mining Microelectronics, Electromagnetics and Telecommunications Mathematics in Engineering Sciences Green Consumerism: Perspectives, Sustainability, and Behavior Handbook of Research on Emerging Applications of Fuzzy Algebraic Structures Handbook of Universities Cases on Emerging Market Responses to the COVID-19 Pandemic

Security in IoT Social Networks
Advances in Distributed
Computing and Machine
Learning Proceedings of the
International Conference on
Artificial Intelligence
Techniques for Electrical
Engineering Systems (AITEES
2022) Handbook of Research
on Building Greener Economics
and Adopting Digital Tools in
the Era of Climate Change
Sustainable Energy and
Technological Advancements
Metabolic Syndrome and
Neurological Disorders
Handbook of Research on
Artificial Intelligence
Applications in Literary Works
and Social Media Hybrid Power
Cycle Arrangements for Lower
Emissions If Thoughts Seized a
Pen Analyzing Human Behavior
in Cyberspace Theoretical,
Computational, and
Experimental Solutions to
Thermo-Fluid Systems
Advances in Biomedical
Engineering and Technology
Encyclopedia of Organizational
Knowledge, Administration,
and Technology Advances in
Data Science and Management
Handbook of Research on

Managerial Practices and
Disruptive Innovation in Asia
Impact of Globalization and
Advanced Technologies on
Online Business Models
Management Strategies and
Technology Fluidity in the
Asian Business Sector
Proceedings of the 2nd
International Conference on
Computational and Bio
Engineering

Security in IoT Social Networks
takes a deep dive into security
threats and risks, focusing on
real-world social and financial
effects. Mining and analyzing
enormously vast networks is a
vital part of exploiting Big
Data. This book provides
insight into the technological
aspects of modeling, searching,
and mining for corresponding
research issues, as well as
designing and analyzing
models for resolving such
challenges. The book will help
start-ups grow, providing
research directions concerning
security mechanisms and
protocols for social information
networks. The book covers
structural analysis of large

social information networks, elucidating models and algorithms and their fundamental properties. Moreover, this book includes smart solutions based on artificial intelligence, machine learning, and deep learning for enhancing the performance of social information network security protocols and models. This book is a detailed reference for academicians, professionals, and young researchers. The wide range of topics provides extensive information and data for future research challenges in present-day social information networks. Provides several characteristics of social, network, and physical security associated with social information networks Presents the security mechanisms and events related to social information networks Covers emerging topics, such as network information structures like on-line social networks, heterogeneous and homogeneous information networks, and modern information networks Includes

smart solutions based on artificial intelligence, machine learning, and deep learning for enhancing the performance of social information network security protocols and models This book includes high-quality papers presented at the Second International Conference on Data Science and Management (ICDSM 2021), organized by the Gandhi Institute for Education and Technology, Bhubaneswar, from 19 to 20 February 2021. It features research in which data science is used to facilitate the decision-making process in various application areas, and also covers a wide range of learning methods and their applications in a number of learning problems. The empirical studies, theoretical analyses and comparisons to psychological phenomena described contribute to the development of products to meet market demands. Online business has been growing progressively and has become the major business platform within the past two decades. The internet bulldozed the

development of new business models and innovations that substantially changed the way businesses run today. This led to a growth of advanced technologies used in online business such as data analytics, machine learning, and artificial intelligence. With higher internet connectivity and the exponential growth of mobile devices, shopping processes and behaviors were significantly affected as people are consistently connected online. Consumers can easily gain helpful product information and retail competitor information in myriad online channels. This led to a profound effect on businesses where they began to invest in new technologies and business practices that aim to align with the effects of globalization. Given the rapid technology advancements, both businesses and customers are presently experiencing an exponential upsurge in the implementation of new business processes and models. Impact of Globalization and Advanced Technologies on

Online Business Models explores the ever-changing field of running an online business and presents the current issues and challenges in online business triggered by global shifts in the online environment and technological changes. The chapters draw from a wide range of technologies used in today's digital marketplace as well as recent development and empirical researches on online consumer behavior. As such, this book aims to contribute new dimensions in managing advancements in online business triggered by global and technology transformation. This book is ideal for executives, managers, IT consultants, practitioners, researchers, academicians, and students interested in globalization and the new technologies affecting online business models. The COVID-19 pandemic was an extreme exogenous shock that had an adverse impact on every facet of human lives, including business. However, the pandemic has also provided

an opportunity for companies to alter their business models by adopting digitalization, innovative customer interfaces, and innovative cost and revenue structures. In order to continue not only surviving but thriving through the effects of the pandemic, businesses will have to further improve and realign their models to engage clients, reskill their workforce, and advance the use of supportive technologies. Cases on Emerging Market Responses to the COVID-19 Pandemic provides a set of case studies on corporate and functional strategies adopted by firms irrespective of their industry, ownership type, or size. It highlights the innovative approaches of dealing with crises to survive and sustain the performances that better suit the unique requirements of the pandemic. Covering topics such as crisis management, innovative management strategy, and social entrepreneurship, this book is an essential resource for business leaders, government organizations,

hospital administration, educational administration, computer scientists, researchers, and academicians. Materials for Advanced Heat Transfer Systems presents the latest research and technologies developed for high-performance materials in heat transfer and cooling. The book compiles sought after research academics and industry experts need to adopt to solve common problems in critical areas of heat transfer and cooling to help advance the field further. A variety of methodologies are included to synthesize the material used, along with the correct procedures to follow to ensure appropriate and effective use. Various case studies are presented to help the reader further understand the benefits and challenges of the materials discussed. Researchers, academics, students and engineers working on heat transfer systems will benefit from this interdisciplinary and applications-focused reference and be guided through various methodologies to make

informed decisions based on the latest research and technologies available. Presents current and futuristic materials that are being synthesized or used for improving heat transfer mechanisms of a system Applies the technologies, models and methods to a variety of applications, including power generation, aerospace, electronics and automobiles Includes recent case studies which exemplify the concepts and technologies analyzed This is an open access book. The focus of the conference is to provide a unique platform for exchange of ideas and synergy among researchers, academicians and industrial experts across the globe belonging to emerging electrical engineering domains. It also provides a premier platform for the people to present and discuss the most recent innovations and solutions in solving complex and challenging problems related to intelligent electrical engineering systems. Such a blend of various research-

oriented minds will lead to productive results and further advancements in electrical engineering research. The book invites submission of novel, recent area of innovation and previously unpublished research work/idea in the field of modern applications of artificial intelligence techniques to electrical engineering systems. The applications of artificial intelligence related to various fields of electrical engineering are mentioned in the conference tracks. The conference is meant to discuss the challenges and applications of latest evolutionary computing techniques, neural networks, fuzzy logic, machine learning and data analytics in the fields of power systems, power electronics, robotics, automation, instrumentation, control systems, mechatronics and photonics. It provides a platform to the students, researchers, scientists, faculty members, professionals and practitioners to interact, present and get innovative ideas in the field of electrical

engineering. As a part of AITEES-2022, many keynote sessions are planned to enhance the research and innovation skills of participants. Eminent professors from academic institutions and world renowned industrial experts from India and abroad will deliver keynote sessions. For any organization to be successful, it must operate in such a manner that knowledge and information, human resources, and technology are continually taken into consideration and managed effectively. Business concepts are always present regardless of the field or industry - in education, government, healthcare, not-for-profit, engineering, hospitality/tourism, among others. Maintaining organizational awareness and a strategic frame of mind is critical to meeting goals, gaining competitive advantage, and ultimately ensuring sustainability. The Encyclopedia of Organizational Knowledge, Administration,

and Technology is an inaugural five-volume publication that offers 193 completely new and previously unpublished articles authored by leading experts on the latest concepts, issues, challenges, innovations, and opportunities covering all aspects of modern organizations. Moreover, it is comprised of content that highlights major breakthroughs, discoveries, and authoritative research results as they pertain to all aspects of organizational growth and development including methodologies that can help companies thrive and analytical tools that assess an organization's internal health and performance. Insights are offered in key topics such as organizational structure, strategic leadership, information technology management, and business analytics, among others. The knowledge compiled in this publication is designed for entrepreneurs, managers, executives, investors, economic analysts, computer engineers, software programmers, human

resource departments, and other industry professionals seeking to understand the latest tools to emerge from this field and who are looking to incorporate them in their practice. Additionally, academicians, researchers, and students in fields that include but are not limited to business, management science, organizational development, entrepreneurship, sociology, corporate psychology, computer science, and information technology will benefit from the research compiled within this publication. Artificial intelligence has been utilized in a diverse range of industries as more people and businesses discover its many uses and applications. A current field of study that requires more attention, as there is much opportunity for improvement, is the use of artificial intelligence within literary works and social media analysis. The Handbook of Research on Artificial Intelligence Applications in Literary Works and Social

Media presents contemporary developments in the adoption of artificial intelligence in textual analysis of literary works and social media and introduces current approaches, techniques, and practices in data science that are implemented to scrap and analyze text data. This book initiates a new multidisciplinary field that is the combination of artificial intelligence, data science, social science, literature, and social media study. Covering key topics such as opinion mining, sentiment analysis, and machine learning, this reference work is ideal for computer scientists, industry professionals, researchers, scholars, practitioners, academicians, instructors, and students. Metabolic Syndrome and Neurological Disorders brings together information on the cluster of common pathologies which cause metabolic syndrome - abdominal obesity linked to an excess of visceral fat, insulin resistance, dyslipidemia and hypertension - to provide a

comprehensive and cutting edge exploration of the link between metabolic syndrome and neurological disorders. Metabolic syndrome is recognized to play a role in neurological disorders such as stroke, Alzheimer's disease, and depression. For the first time in book form, *Metabolic Syndrome and Neurological Disorders* covers the molecular mechanisms thought to underlie this mirror relationship, as well as how lifestyle and other factors such as oxidative stress and inflammation may play a role in the disease. Grounded in a series of epidemiological studies of metabolic-cognitive syndrome, this book will be a valuable reference for researchers, dietitians, nutritionists, and physicians. This new volume, *Green Consumerism: The Behavior of New Age Consumer*, provides a holistic understanding the importance of promoting green products and discusses consumers' buying intentions and decisions. The chapters consider consumer behavior

theory in the context of green or ecologically friendly products from both the academic and business perspectives. The chapters present the latest empirical and analytical research in the field of green marketing and provide an abundance of information about profitable and sustainable ways and strategies to deal with environmental problems. The volume considers how consumers are taking responsibility and becoming more aware, driving change in the marketplace. In response, companies are integrating appropriate green strategies into their operational activities, product development processes, and marketing activities to achieve a competitive advantage in saturated markets. This helps companies gain market share and minimize their production costs. Topics discussed in the volume include green pricing, green consumer behavior, various dimensions of consumer purchase intention, sustainable marketing,

innovation techniques used to go green, eco-awareness, and other ongoing developments in this rapidly expanding area.

Key features:

- Discusses research on the latest trends in the field of green marketing, green practices, green products, eco-literacy, environment awareness, protection, management etc.
- Provides insight about current consumer behavior, consumers' eco-literacy levels, and their desires to go green
- Covers a multitude of topics, including green pricing, green consumer behavior, sustainable marketing, innovation techniques used to go green, eco-awareness, and more

DIGITAL COMMUNICATION
WRITTEN BY

Mr.MaddikeraKrishna Reddy ,
Dr.S.Krishna Veni,
Mr.A.Mahesh Babu,Mr.Ankit
Khandelwal This book contains
selected papers presented at
the First International
Symposium on Sustainable
Energy and Technological
Advancements (ISSETA 2021),
which was organized by the
Department of Electrical

Engineering, NIT Meghalaya,
Shillong, India, during
September 24-25, 2021. The
topics covered in the book
mainly focuses on the cutting-
edge research domain with
respect to sustainable energy
technologies, smart building,
integration, and application of
multiple energy sources;
advanced power converter
topologies and their
modulation techniques; and
information and
communication technologies
for smart microgrids. The Most
Authentic Source Of
Information On Higher
Education In India The
Handbook Of Universities,
Deemed Universities, Colleges,
Private Universities And
Prominent Educational &
Research Institutions Provides
Much Needed Information On
Degree And Diploma Awarding
Universities And Institutions Of
National Importance That
Impart General, Technical And
Professional Education In
India. Although Another
Directory Of Similar Nature Is
Available In The Market, The
Distinct Feature Of The

Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will

Find It Highly Valuable. A compilation of read worthy thoughts. This book presents the peer-reviewed proceedings of the Sixth International Conference on Intelligent Computing and Applications (ICICA 2020), held at Government College of Engineering, Keonjhar, Odisha, India, during December 22-24, 2020. The book includes the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks. This book includes research studies, novel theory, as well as new methodology and applications in mathematics and management sciences. The book will provide a comprehensive range of mathematics applied to engineering areas for different tasks. It will offer an international perspective and a

bridge between classical theory and new methodology in many areas, along with real-life applications. Features Offers solutions to multi-objective transportation problem under cost reliability using utility function Presents optimization techniques to support eco-efficiency assessment in manufacturing processes Covers distance-based function approach for optimal design of engineering processes with multiple quality characteristics Provides discrete time sliding mode control for non-linear networked control systems Discusses second law of thermodynamics as instruments for optimizing fluid dynamic systems and aerodynamic systems The ultimate success or failure of a business, in modern society, depends on a variety of factors across all levels of the organization. By utilizing dynamic technology and management techniques, businesses can more efficiently reach their goals and become successful in the growing market. Management

Strategies and Technology Fluidity in the Asian Business Sector is a critical scholarly resource that examines the collaboration in business, management, and technology in Asia. Featuring coverage on a broad range of topics such as business ethics, entrepreneurship, and international trade, this book is geared towards academicians, students, and managers seeking current research on business in Southeast Asia. Hybrid Power Cycle Arrangements for Lower Emissions is an edited book that explores the state-of-the-art for creating effective hybrid power cycles for power generation with lower emission while utilizing different energy sources. The book details energetic and exergetic studies for improving system design and performance of hybrid power cycle arrangements. Chapters in the book provide a systematic approach to the integration and operation of different thermal power cycles with renewable energy sources. The book brings

together researchers and practitioners from academia and industry to present their recent and ongoing research and development activities concerning the advancement of hybridization of different conventional and unconventional energy sources to produce efficient and clean energy systems. The book chapters present a range of ongoing research and development activities, challenges, constraints, and opportunities in both theoretical as well as application aspects of several hybrid technologies for power generation. Several issues such as hybridization of different energy sources, availability, environmental impacts, and power cycle integration are addressed in-depth, making this collection a worthy repository for those working in the field of the power cycles. In a world where computer science is now an essential element in all of our lives, a new opportunity to disseminate the latest research and trends is always welcome. This book

presents the proceedings of the first International Conference on Recent Trends in Computing (ICRTC 2021), which was held as a virtual event on 21 - 22 May 2021 at Sanjivani College of Engineering, Kopergaon, India due to the restrictions of the COVID-19 pandemic. This online conference, aimed at facilitating academic exchange among researchers, enabled experts and scholars around from around the globe to gather for the discussion of the latest advanced research in the field despite the extensive travel restrictions still in place. The book contains 134 papers selected from 329 submitted papers after a rigorous peer-review process, and topics covered include advanced computing, networking, informatics, security and privacy, and other related fields. The book will be of interest to all those eager to find the latest trends and most recent developments in computer science. The recent COVID-19 pandemic has emphasized the importance of safety and ergonomics in the

workplace. From work-life balance and mental health to risk prevention, maintaining a healthy and happy workforce has become essential for the progress of every company. Moreover, ensuring inclusive spaces has become a pillar of business with some worrying that the diversity agenda will be overshadowed by the recent pandemic. It is imperative that current research is compiled that sheds light on the advancements being made in promoting diversity and wellbeing in the modern workforce. The Research Anthology on Changing Dynamics of Diversity and Safety in the Workforce is a comprehensive reference source that provides the latest emerging research on diversity management and initiatives as well as occupational health and safety practices in the workplace. These concepts are necessary for global workplaces to remain safe, efficient, and inclusive. Covering topics such as employee equity, human resources practices, and

worker wellbeing, this anthology provides an excellent resource for researchers, human resources personnel, managers, safety officers, policymakers, CEOs, students, professors, and academicians. One of the major tools of attaining proper development all around the world is creating wealth and economic inclusion, such that all classes of people can secure their lifestyles through access to financial services from formal sectors. Expanding access to resources and increasing self-employment opportunities help reduce poverty and improve social development. Wealth Creation and Poverty Reduction: Breakthroughs in Research and Practice examines trends, challenges, issues, and strategies related to the creation of livelihood options through the redistribution of resources, foreign aid, private sector activities, and other methods. Highlighting a range of topics such as microfinance, poverty alleviation, and socio-economic development, this publication

is an ideal reference source for government officials, policymakers, executives, economists, analysts, researchers, academicians, professionals, and students interested in wealth creation in areas of extreme poverty. The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities, Deemed Universities, Colleges, Private Universities And Prominent Educational & Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General, Technical And Professional Education In India. Although Another Directory Of Similar Nature Is Available In The Market, The Distinct Feature Of The Present Handbook, That Makes It One Of Its Kind, Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country. In This Handbook, The Universities Have Been Listed In An

Alphabetical Order. This Facilitates Easy Location Of Their Names. In Addition To The Brief History Of These Universities, The Present Handbook Provides The Names Of Their Vice-Chancellor, Professors And Readers As Well As Their Faculties And Departments. It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University. It Is Hoped That The Handbook In Its Present Form, Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement. In Addition, It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials. Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable. In today's modernized world, new research and empirical findings are being conducted and found within various professional industries. The field of engineering is no different. Industrial and material

engineering is continually advancing, making it challenging for practitioners to keep pace with the most recent trends and methods.

Engineering professionals need a handbook that provides up-to-date research on the newest methodologies in this imperative industry. The Handbook of Research on Developments and Trends in Industrial and Materials Engineering is a collection of innovative research on the theoretical and practical aspects of integrated systems within engineering. This book provides a forum for professionals to understand the advancing methods of engineering. While highlighting topics including operations management, decision analysis, and communication technology, this book is ideally designed for researchers, managers, engineers, industrialists, manufacturers, academicians, policymakers, scientists, and students seeking current research on recent findings and modern approaches within industrial

and materials engineering. The rapid evolution of technology continuously changes the way people interact, work, and learn. By examining these advances from a sociological perspective, researchers can further understand the impact of cyberspace on human behavior, interaction, and cognition. Analyzing Human Behavior in Cyberspace provides emerging research exploring the four types of cyber behavior, expanding the scientific knowledge about the subject matter and revealing its extreme complexity.

Featuring coverage on a broad range of topics such as cyber effects, emotion recognition, and cyber victimization, this book is ideally designed for sociologists, psychologists, academicians, researchers, and graduate-level students seeking current research on how people behave online. The book discusses the latest developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It contains

original research works presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2018), organised by GVP College of Engineering (A), Andhra Pradesh, India. The respective papers were written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes from all over the world, and share the latest breakthroughs in and promising solutions to the most important issues facing today's society. Cities, economies, and societies around the world must address the urgent global challenges such as climate change or the transition towards a greener and digital economy. It is important that economies are transformed into resource-efficient, competitive, and resilient ones. In the context of rapid change, transformative technologies like artificial intelligence (AI), blockchain, or the internet of things (IoT) play a key role in this digital

transition across a wide range of areas. The Handbook of Research on Building Greener Economics and Adopting Digital Tools in the Era of Climate Change discusses global challenges like the transition towards a circular, greener, and digital economy. It proposes actions to advance the agenda towards climate-friendly businesses and economies. The book fosters cooperation among researchers, companies, and policymakers to share national initiatives and disseminate relevant knowledge. Covering topics such as cross-cultural communication, green product consumption, and organization performance strategies, this major reference work is an essential resource for business leaders and managers, entrepreneurs, government officials, politicians, policymakers, environmentalist organizations, students and faculty of higher education, researchers, and academicians. This book presents recent advances in the field of scalable distributed computing

including state-of-the-art research in the field of Cloud Computing, the Internet of Things (IoT), and Blockchain in distributed environments along with applications and findings in broad areas including Data Analytics, AI, and Machine Learning to address complex real-world problems. It features selected high-quality research papers from the 2nd International Conference on Advances in Distributed Computing and Machine Learning (ICADCML 2021), organized by the Department of Computer Science and Information Technology, Institute of Technical Education and Research (ITER), Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, India. As with other transportation methods, safety issues in aircraft can result in a total loss of life. Recently, the air transport industry has come under immense scrutiny after several deaths occurred due to aircraft design and airlines that allowed improperly inspected aircraft to fly. Spacecraft too

have found errors in system software that could lead to catastrophic failure. It is imperative that the aviation and aerospace industries continue to revise and refine safety protocols from the construction and design of aircraft, to secure and improve aviation systems, and to test and inspect aircraft. The Research Anthology on Reliability and Safety in Aviation Systems, Spacecraft, and Air Transport is a vital reference source that examines the latest scholarly material on the use of adaptive and assistive technologies in aviation to establish clear guidelines for the design and implementation of such technologies to better serve the needs of both military and civilian pilots. It also covers new information technology use in aviation systems to streamline the cybersecurity, decision making, planning, and design processes within the aviation industry. Highlighting a range of topics such as air navigation systems, computer simulation, and airline

operations, this multi-volume book is ideally designed for pilots, scientists, engineers, aviation operators, air traffic controllers, air crash investigators, teachers, academicians, researchers, and students. This book presents the peer-reviewed proceedings of the 2nd International Conference on Computational and Bioengineering (CBE 2020) jointly organized in virtual mode by the Department of Computer Science and the Department of BioScience & Sericulture, Sri Padmavati Mahila Visvavidyalayam (Women's University), Tirupati, Andhra Pradesh, India, during 4-5 December 2020. The book includes the latest research on advanced computational methodologies such as artificial intelligence, data mining and data warehousing, cloud computing, computational intelligence, soft computing, image processing, Internet of things, cognitive computing, wireless networks, social networks, big data analytics, machine learning, network security, computer networks

and communications, bioinformatics, biocomputing/biometrics, computational biology, biomaterials, bioengineering, and medical and biomedical informatics. This book presents select proceedings of the International Conference on Innovations in Thermo-Fluid Engineering and Sciences (ICITFES 2020). It covers topics in theoretical and experimental fluid dynamics, numerical methods in heat transfer and fluid mechanics, different modes of heat transfer, multiphase flow, fluid machinery, fluid power, refrigeration and air conditioning, and cryogenics. The book will be helpful to the researchers, scientists, and professionals working in the field of fluid mechanics and machinery, and thermal engineering. This book addresses different methods and techniques of integration for enhancing the overall goal of data mining. The book is a collection of high-quality peer-reviewed research papers presented in the Sixth

International Conference on Computational Intelligence in Data Mining (ICCIDM 2021) held at Aditya Institute of Technology and Management, Tekkali, Andhra Pradesh, India, during December 11-12, 2021. The book addresses the difficulties and challenges for the seamless integration of two core disciplines of computer science, i.e., computational intelligence and data mining. The book helps to disseminate the knowledge about some innovative, active research directions in the field of data mining, machine and computational intelligence, along with some current issues and applications of related topics. This volume provides informative chapters on the emerging issues, challenges, and new methods and state-of-the-art technologies on the Internet of Things and blockchain technology. It presents case studies and solutions that can be applied in the current business scenario, resolving challenges and providing solutions by integrating IoT with blockchain

technology. The chapters discuss how the Internet of Things (IoT) represents a revolution of the Internet that can connect nearly all environment devices over the Internet to share data to create novel services and applications for improving quality of life. Although the centralized IoT system provides countless benefits, it raises several challenges. The volume presents IoT techniques and methodologies, blockchain techniques and methodologies, and case studies and applications for data mining algorithms, heart rate monitoring, climate prediction, disease prediction, security issues, automotive supply chains, voting prediction, forecasting particulate matter pollution, customer relationship management, and more. This book comprises select peer-reviewed papers presented at the International Conference on Biomedical Engineering Science and Technology: Roadway from Laboratory to Market (ICBEST 2018) organized by

Department of Biomedical Engineering, National Institute of Technology Raipur, Chhattisgarh, India. The book covers latest research in a wide range of biomedical technologies ranging from biomechanics, biomaterials, biomedical instrumentation to tele-medicine, internet of things, bioinformatics, medical signal and image processing. The contents aim to bridge the gap between laboratory research and feasible market products by identifying potential technologies to enhance functionalities of diagnostic and therapeutic devices. The book will be of use to researchers, biomedical engineers, as well as medical practitioners. Collaboration in business allows for equitable opportunities and inclusive growth as the economy rises while also permitting partnering organizations to adopt and utilize the latest successful practices and management. However, a market in stasis may require a displacement in order to allow businesses to grow and create

new alliances and partnerships toward a shared economy. There is a need for studies that seek to understand the necessity of market disruption and the best supervisory methods for remaining relevant and profitable in a time of change. The Handbook of Research on Managerial Practices and Disruptive Innovation in Asia is an essential reference source that explores successful executive behavior and business operations striving toward a more inclusive economy. Featuring research on topics such as employee welfare, brand orientation, and entrepreneurship, this publication is ideally designed for human resources developers, policymakers, IT specialists, economists, executives, managers, corporate directors, information technologists, and academicians seeking current research focusing on innovative business factors and sustainable economies in Asia. In today's digital world, the huge amount of data being

generated is unstructured, messy, and chaotic in nature. Dealing with such data, and attempting to unfold the meaningful information, can be a challenging task. Feature engineering is a process to transform such data into a suitable form that better assists with interpretation and visualization. Through this method, the transformed data is more transparent to the machine learning models, which in turn causes better prediction and analysis of results. Data science is crucial for the data scientist to assess the trade-offs of their decisions regarding the effectiveness of the machine learning model implemented. Investigating the demand in this area today and in the future is a necessity. The Handbook of Research on Automated Feature Engineering and Advanced Applications in Data Science provides an in-depth analysis on both the theoretical and the latest empirical research findings on how features can be extracted and transformed from raw data. The chapters

will introduce feature engineering and the recent concepts, methods, and applications with the use of various data types, as well as examine the latest machine learning applications on the data. While highlighting topics such as detection, tracking, selection techniques, and prediction models using data science, this book is ideally intended for research scholars, big data scientists, project developers, data analysts, and computer scientists along with practitioners, researchers, academicians, and students interested in feature engineering and its impact on data. BIG DATA ANALYTICS AND MACHINE INTELLIGENCE IN BIOMEDICAL AND HEALTH INFORMATICS Provides coverage of developments and state-of-the-art methods in the broad and diversified data analytics field and applicable areas such as big data analytics, data mining, and machine intelligence in biomedical and health informatics. The novel

applications of Big Data Analytics and machine intelligence in the biomedical and healthcare sector is an emerging field comprising computer science, medicine, biology, natural environmental engineering, and pattern recognition. Biomedical and health informatics is a new era that brings tremendous opportunities and challenges due to the plentifully available biomedical data and the aim is to ensure high-quality and efficient healthcare by analyzing the data. The 12 chapters in *Big Data Analytics and Machine Intelligence in Biomedical and Health Informatics* cover the latest advances and developments in health informatics, data mining, machine learning, and artificial intelligence. They have been organized with respect to the similarity of topics addressed, ranging from issues pertaining to the Internet of Things (IoT) for biomedical engineering and health informatics, computational intelligence for medical data processing, and

Internet of Medical Things (IoMT). New researchers and practitioners working in the field will benefit from reading the book as they can quickly ascertain the best performing methods and compare the different approaches. Audience Researchers and practitioners working in the fields of biomedicine, health informatics, big data analytics, Internet of Things, and machine learning. In the world of mathematics, the study of fuzzy relations and its theories are well-documented and a staple in the area of calculative methods. What many researchers and scientists overlook is how fuzzy theory can be applied to industries outside of arithmetic. The framework of fuzzy logic is much broader than professionals realize. There is a lack of research on the full potential this theoretical model can reach. The *Handbook of Research on Emerging Applications of Fuzzy Algebraic Structures* provides emerging research exploring the

theoretical and practical aspects of fuzzy set theory and its real-life applications within the fields of engineering and science. Featuring coverage on a broad range of topics such as complex systems, topological spaces, and linear

transformations, this book is ideally designed for academicians, professionals, and students seeking current research on innovations in fuzzy logic in algebra and other matrices.

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