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KEY=MILLIA - COOLEY ALEXIS

COMPUTATIONAL INTELLIGENCE METHODS IN COVID-19: SURVEILLANCE, PREVENTION, PREDICTION AND DIAGNOSIS

Springer Nature *The novel coronavirus disease 2019 (COVID-19) pandemic has posed a major threat to human life and health. This book is beneficial for interdisciplinary students, researchers, and professionals to understand COVID-19 and how computational intelligence can be used for the purpose of surveillance, control, prevention, prediction, diagnosis, and potential treatment of the disease. The book contains different aspects of COVID-19 that includes fundamental knowledge, epidemic forecast models, surveillance and tracking systems, IoT- and IoMT-based integrated systems for COVID-19, social network analysis systems for COVID-19, radiological images (CT, X-ray) based diagnosis system, and computational intelligence and in silico drug design and drug repurposing methods against COVID-19 patients. The contributing authors of this volume are experts in their fields and they are from various reputed universities and institutions across the world. This volume is a valuable and comprehensive resource for computer and data scientists, epidemiologists, radiologists, doctors, clinicians, pharmaceutical professionals, along with graduate and research students of interdisciplinary and multidisciplinary sciences.*

DATA DRIVEN APPROACH TOWARDS DISRUPTIVE TECHNOLOGIES

PROCEEDINGS OF MIDAS 2020

Springer Nature *This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, India, during 4-5 September 2020. The book addresses the algorithmic aspect of machine intelligence which includes the framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like data-driven industrial IoT, bioinformatics, network and security, autonomous computing and various other aligned areas. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber-physical system and smart agriculture. All papers have been carefully reviewed. The book is of interest to computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.*

ADVANCES IN MANUFACTURING AND INDUSTRIAL ENGINEERING

SELECT PROCEEDINGS OF ICAPIE 2019

Springer Nature *This book presents selected peer reviewed papers from the International Conference on Advanced Production and Industrial Engineering (ICAPE 2019). It covers a wide range of topics and latest research in mechanical systems engineering, materials engineering, micro-machining, renewable energy, industrial and production engineering, and additive manufacturing. Given the range of topics discussed, this book will be useful for students and researchers primarily working in mechanical and industrial engineering, and energy technologies.*

STATE AND CAPITAL IN POST-COLONIAL INDIA

FROM LICENCE RAJ TO OPEN ECONOMY

Cambridge University Press

GREEN SOLVENTS II

PROPERTIES AND APPLICATIONS OF IONIC LIQUIDS

Springer Science & Business Media *The conventional solvents used in chemical, pharmaceutical, biomedical and separation processes represent a great challenge to green chemistry because of their toxicity and flammability. Since the beginning of "the 12 Principles of Green Chemistry" in 1998, a general effort has been made to replace conventional solvents with environmentally benign substitutes. Water has been the most popular choice so far, followed by ionic liquids, surfactant, supercritical fluids, fluoruous solvents, liquid polymers, bio-solvents and switchable solvent systems. Green Solvents Volume I and II provides a throughout overview of the different types of solvents and discusses their extensive applications in fields such as extraction, organic synthesis, biocatalytic processes, production of fine chemicals, removal of hydrogen sulphide, biochemical transformations, composite material, energy storage devices and polymers. These volumes are written by leading international experts and cover all possible aspects of green solvents' properties and applications available in today's literature. Green Solvents Volume I and II is an invaluable guide to scientists, R&D industrial specialists, researchers, upper-level undergraduates and graduate students, Ph.D. scholars, college and university professors working in the field of chemistry and biochemistry.*

THE INDIA POLICY FORUM 2004

VOLUME 1

Brookings Institution Press *The India Policy Forum (IPF) is a new annual publication dedicated to research on the contemporary Indian economy. It provides a forum for addressing the scope, speed, and desirability of economic reforms within India and their fundamental impacts on the country's social and economic welfare. The IPF aims to nurture a global network of scholars interested in India's economic transformation. A joint publication of the National Council of Applied Economic Research in India and the Brookings Institution in the United States, the IPF provides a bridge between researchers in India and abroad. This inaugural issue contains highlights from a conference held in New Delhi in March 2004. Topics include: • India's Trade Reform: Progress, Impact, and Future Strategy • Should a U.S.-India Free Trade Agreement Be Part of India's Trade Strategy? • Foreign Inflows and Macroeconomic Policy in India • India's Experience with the Implementation of a Pegged Exchange Rate • The Challenges for Capital Account Convertibility in India • Banking Reform in India*

ADVANCES IN COMPUTER SCIENCE AND INFORMATION TECHNOLOGY. COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

SECOND INTERNATIONAL CONFERENCE, CCSIT 2012, BANGALORE, INDIA, JANUARY 2-4, 2012. PROCEEDINGS, PART III

Springer *The three volume set LNICST 84 - LNICST 86 constitute the refereed proceedings of the Second International Conference on Computer Science and Information Technology, CCSIT 2012, held in Bangalore, India, in January 2012. The 55 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on advances in computer science and information technology; and ad hoc and ubiquitous computing.*

NATURE, ECONOMY AND SOCIETY

UNDERSTANDING THE LINKAGES

Springer This book presents an enquiry into the interface between nature, economy and society, which is still in its early stages, notwithstanding the commendable progress and advances made in the field of environmental and natural resource economics within the ever-expanding boundaries of economics as a discipline. It further delineates the evolution of an inter-disciplinary framework for analyzing the status, the future goals, mechanisms and policy instruments that can help move towards a more ecologically sustainable, economically beneficial and socially just future. A pre-requisite for preparing a comprehensive and coherent framework involves unfolding the multiple layers of interconnectedness between the three systems nature, economy and society, each of which has its own internal consistencies as well as externalities. Against this backdrop, the book presents scholarly contributions that focus on four broadly defined building blocks, namely: i) accounting for ecosystems services for life and human well-being; ii) impacts of economic growth on ecosystems; iii) social norms, equity, and governance; and iv) alternative approaches to green and socio-economic systems. The analyses, presented by some of the most eminent national and international scholars, address the major environmental challenges that nations around the world face today and consider which specific policy directions at the international and national level are needed. In particular, the choices India and South Asia now face, as development and environment both need to be addressed adequately, touch on many of these challenges.

IONIC LIQUIDS AS GREEN SOLVENTS

PROGRESS AND PROSPECTS

Amer Chemical Society Annotation Following *Ionic Liquids: Industrial Applications to Green Chemistry*, SS #818, by the same editors, this book focuses on exciting new developments in ionic liquids.

IONIC LIQUID CRYSTALS

MDPI In this book we have collected a series of state-of-the art papers written by specialists in the field of ionic liquid crystals (ILCs) to address key questions concerning the synthesis, properties, and applications of ILCs. New compounds exhibiting ionic liquid crystalline phases are presented, both of calamitic as well as discotic type. Their dynamic and structural properties have been investigated with a series of experimental techniques including differential scanning calorimetry, polarized optical spectroscopy, X-ray scattering, and nuclear magnetic resonance, impedance spectroscopy to mention but a few. Moreover, computer simulations using both fully atomistic and highly coarse-grained force fields have been presented, offering an invaluable microscopic view of the structure and dynamics of these fascinating materials.

NATIONAL POLICY ON VOCATIONAL EDUCATION AND TRAINING

FACULTY AND STUDENT PROGRAMS

INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATIONS

PROCEEDINGS OF ICICC 2021, VOLUME 1

Springer Nature This book includes high-quality research papers presented at the Fourth International Conference on Innovative Computing and Communication (ICICC 2021), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on February 20–21, 2021. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

INTERNET OF THINGS

CHALLENGES AND OPPORTUNITIES

Springer Science & Business Media Advancement in sensor technology, smart instrumentation, wireless sensor networks, miniaturization, RFID and information processing is helping towards the realization of Internet of Things (IoT). IoTs are finding applications in various area applications including environmental monitoring, intelligent buildings, smart grids and so on. This book provides design challenges of IoT, theory, various protocols, implementation issues and a few case study. The book will be very useful for postgraduate students and researchers to know from basics to implementation of IoT.

HEALTHCARE SYSTEMS AND HEALTH INFORMATICS

USING INTERNET OF THINGS

CRC Press This book covers the fundamentals of IoT and healthcare systems for carrying out system architectures, protocols, wearable devices, and interoperability. It explores major challenges in artificial intelligence (AI) and smart computing in resource-constrained IoT-based applications along with cost, energy efficiency, and the availability of quality service. *Healthcare Systems and Health Informatics: Using Internet of Things* explores the role of AI and smart computing in health informatics and healthcare with an emphasis on clinical data management and analysis for precise prediction and prompt action. It presents cutting-edge tracking, monitoring, real-time assistance, and security for IoT in healthcare and broadly discusses wearable sensors and IoT devices and their role in smart living assistance. The book goes on to describe a system model and architecture for a clear picture of energy conservation-based IoT in healthcare and explains the challenges and opportunities with IoT-based healthcare industries. A study of the threats and impacts, along with the need for information security, is also included. The chapters are written by experts in the field, and this book provides a comprehensive description of the important aspects of IoT and health from a beginner- to advanced-level perspective and is ideal for researchers, academicians, students, persons in industry, technologists, and entrepreneurs.

CLASSIFICATION IN BIOAPPS

AUTOMATION OF DECISION MAKING

Springer This book on classification in biomedical image applications presents original and valuable research work on advances in this field, which covers the taxonomy of both supervised and unsupervised models, standards, algorithms, applications and challenges. Further, the book highlights recent scientific research on artificial neural networks in biomedical applications, addressing the fundamentals of artificial neural networks, support vector machines and other advanced classifiers, as well as their design and optimization. In addition to exploring recent endeavours in the multidisciplinary domain of sensors, the book introduces readers to basic definitions and features, signal filters and processing, biomedical sensors and automation of biomeasurement systems. The target audience includes researchers and students at engineering and medical schools, researchers and engineers in the biomedical industry, medical doctors and healthcare professionals.

INTELLIGENT DECISION MAKING: AN AI-BASED APPROACH

Springer Science & Business Media Intelligent Decision Support Systems have the potential to transform human decision making by combining research in artificial intelligence, information technology, and systems engineering. The field of intelligent decision making is expanding rapidly due, in part, to advances in artificial intelligence and network-centric environments that can deliver the technology. Communication and coordination between dispersed systems can deliver just-in-time information, real-time processing, collaborative environments, and globally up-to-date information to a

human decision maker. At the same time, artificial intelligence techniques have demonstrated that they have matured sufficiently to provide computational assistance to humans in practical applications. This book includes contributions from leading researchers in the field beginning with the foundations of human decision making and the complexity of the human cognitive system. Researchers contrast human and artificial intelligence, survey computational intelligence, present pragmatic systems, and discuss future trends. This book will be an invaluable resource to anyone interested in the current state of knowledge and key research gaps in the rapidly developing field of intelligent decision support.

IMPROVING SCHOOL EFFECTIVENESS

McGraw-Hill Education (UK) This work sets out to answer questions such as, what have we learned after three decades of research into school effectiveness? What can we say with confidence about how schools improve? It reviews findings from seminal international work.

NORTHEAST INDIA

A READER

Taylor & Francis Northeast India is a multifaceted and dynamic region that is constantly in focus because of its fragile political landscape characterized by endemic violence and conflicts. One of the first of its kind, this reader on Northeast India examines myriad aspects of the region – its people and its linguistic and cultural diversity. The chapters here highlight the key issues confronted by the Northeast in recent times: its history, politics, economy, gender equations, migration, ethnicity, literature and traditional performative practices. The book presents interlinkages between a range of socio-cultural issues and armed political violence while covering topics such as federalism, nationality, population, migration and social change. It discusses debates on development with a view to comprehensive policies and state intervention. With its a nuanced and wide-ranging overview, this volume makes new contributions to understanding a region that is critical to the future of South Asian geopolitics. The book will be of great interest to scholars and researchers of contemporary Northeast India as well as history, political science, area studies, international relations, sociology and social anthropology. It will also appeal to those interested in public administration, regional literature, cultural studies, population studies, development studies and economics.

INTELLIGENT SYSTEMS, TECHNOLOGIES AND APPLICATIONS

PROCEEDINGS OF ISTA 2018

Springer This book explores and discusses various aspects of intelligent systems technologies and their applications. It constitutes the thoroughly refereed post-conference proceedings of the 4th International Symposium on Intelligent Systems Technologies and Applications (ISTA'18), September 19-22, 2018, Bangalore, India. All submissions were evaluated on the basis of their significance, novelty, and technical quality. This book contains 20 papers selected for presentation at the Symposium. The book is chiefly intended for, and offers a valuable resource for, researchers and scientists engaged in various fields involving intelligent systems.

COMPUTATIONAL LINGUISTICS

16TH INTERNATIONAL CONFERENCE OF THE PACIFIC ASSOCIATION FOR COMPUTATIONAL LINGUISTICS, PACLING 2019, HANOI, VIETNAM, OCTOBER 11-13, 2019, REVISED SELECTED PAPERS

Springer Nature This book constitutes the refereed proceedings of the 16th International Conference of the Pacific Association for Computational Linguistics, PACLING 2019, held in Hanoi, Vietnam, in October 2019. The 28 full papers and 14 short papers presented were carefully reviewed and selected from 70 submissions. The papers are organized in topical sections on text summarization; relation and word embedding; machine translation; text classification; web analyzing; question and answering, dialog analyzing; speech and emotion analyzing; parsing and segmentation; information extraction; and grammar error and plagiarism detection.

SMART SENSOR SYSTEMS

EMERGING TECHNOLOGIES AND APPLICATIONS

John Wiley & Sons With contributions from an internationally-renowned group of experts, this book uses a multidisciplinary approach to review recent developments in the field of smart sensor systems, covering important system and design aspects. It examines topics over the whole range of sensor technology from the theory and constraints of basic elements, physics and electronics, up to the level of application-orientated issues. Developed as a complementary volume to 'Smart Sensor Systems' (Wiley 2008), which introduces the basics of smart sensor systems, this volume focuses on emerging sensing technologies and applications, including: State-of-the-art techniques for designing smart sensors and smart sensor systems, including measurement techniques at system level, such as dynamic error correction, calibration, self-calibration and trimming. Circuit design for sensor systems, such as the design of precision instrumentation amplifiers. Impedance sensors, and the associated measurement techniques and electronics, that measure electrical characteristics to derive physical and biomedical parameters, such as blood viscosity or growth of micro-organisms. Complete sensor systems-on-a-chip, such as CMOS optical imagers and microarrays for DNA detection, and the associated circuit and micro-fabrication techniques. Vibratory gyroscopes and the associated electronics, employing mechanical and electrical signal amplification to enable low-power angular-rate sensing. Implantable smart sensors for neural interfacing in bio-medical applications. Smart combinations of energy harvesters and energy-storage devices for autonomous wireless sensors. Smart Sensor Systems: Emerging Technologies and Applications will greatly benefit final-year undergraduate and postgraduate students in the areas of electrical, mechanical and chemical engineering, and physics. Professional engineers and researchers in the microelectronics industry, including microsystem developers, will also find this a thorough and useful volume.

NATIONAL SECURITY DECISION-MAKING IN INDIA

This monograph explores the structures and processes involved in India's national security decision-making on Afghanistan, China, counter-terrorism architecture, and left-wing extremism.

INTERNATIONAL CONFERENCE ON INNOVATIVE COMPUTING AND COMMUNICATIONS

PROCEEDINGS OF ICICC 2020, VOLUME 1

Springer Nature This book includes high-quality research papers presented at the Third International Conference on Innovative Computing and Communication (ICICC 2020), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 21-23 February, 2020. Introducing the innovative works of scientists, professors, research scholars, students and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

INTELLIGENT SYSTEMS TECHNOLOGIES AND APPLICATIONS

Springer This book constitutes the thoroughly refereed post-conference proceedings of the third International Symposium on Intelligent Systems Technologies and Applications (ISTA'17), September 13-16, 2017, Manipal, Karnataka, India. All submissions were evaluated on the basis of their significance, novelty, and technical quality. This proceedings contains 34 papers selected for presentation at the Symposium.

WATER ENVIRONMENT AND SOCIETY

2. Estimation of Runoff and Soil Loss in Conservation Agriculture Treatments under Rainfed Condition 3. Preserve: A Novel Product of Nagpur Mandarin 4. Application of ANSYS-CFD to Flow Problems TECHNICAL PAPERS 5. Hypsometric Analysis of Yagachi Watershed using Remote Sensing and GIS

Techniques

STATE INCREMENT DYNAMIC PROGRAMMING

Elsevier Publishing Company

SPECTRUM ALGEBRA

Carson-Dellosa Publishing With the help of Spectrum Algebra for grades 6 to 8, your child develops problem-solving math skills they can build on. This standards-based workbook focuses on middle school algebra concepts like equalities, inequalities, factors, fractions, proportions, functions, and more. Middle school is known for its challenges—let Spectrum ease some stress. Developed by education experts, the Spectrum Middle School Math series strengthens the important home-to-school connection and prepares children for math success. Filled with easy instructions and rigorous practice, Spectrum Algebra helps children soar in a standards-based classroom!

INDIA POLICY FORUM 2007-08

SAGE Publishing India India Policy Forum is an annual publication jointly promoted by the National Council for Applied Economic Research, New Delhi and the Brookings Institution in Washington D.C., with the objective of presenting high-quality empirical research on the major economic policy issues that confront contemporary India. The papers cover a diverse set of macro and microeconomic topics of relevance to policymakers. The prime objective of this volume is to make the policy discussion accessible to a broad non-specialist audience within India and abroad and assist in the development of a global network of scholars interested in India's economic transformation.

INDIA HIGHER EDUCATION REPORT 2016

EQUITY

SAGE Publishing India Equity in education is well recognized as central to achieving inclusive growth and development. The second in the series initiated by the Centre for Policy Research in Higher Education of the National University of Educational Planning and Administration, India Higher Education Report 2016 focuses on the theme of equity in higher education. The report examines issues related to the expansion of higher education; economic, social, regional and gender inequalities and their implications on education; student diversity and discrimination; and the changing roles of the state, market and private sector in a period of massification of the education sector. The book also addresses topics on learning outcomes, and employment and employability of higher education graduates. The discussions in the book centre on the theoretical perspectives and empirical evidences. This book will be an important resource for academics, policy makers, civil society organizations, media and those concerned with higher education and development. It will also be useful to scholars and researchers of education, public policy, sociology and economics.

FRONTIERS IN EDUCATION

COMPUTER SCIENCE AND COMPUTER ENGINEERING

2019 Worldcomp Internation Proceedings of the 2019 International Conference on Frontiers in Education: Computer Science & Computer Engineering (FECS'19) held July 29th - August 1st, 2019 in Las Vegas, Nevada.

INDUSTRY INSTITUTE INTERACTION

Sarup & Sons In Indian context.

INDIA HIGHER EDUCATION REPORT 2015

Routledge The unprecedented expansion of higher education in India and the proliferation of providers in turn have posed enormous challenges to equity, quality and financing of the sector. The India Higher Education Report 2015 traces the evolution of higher education and discusses the key role of committees and commissions whose reports and recommendations form the backdrop of contemporary developments. Authoritative and comprehensive, the volume examines a range of themes including equity, financing, employment, quality, and governance. It also engages with new and recent data as well as current issues and debates. The volume will be an important resource for academics, policy makers, civil society organisations, media and those concerned with higher education. It will also be useful to scholars and researchers of public policy, sociology and economics.

SOFTWARE METRICS

A RIGOROUS AND PRACTICAL APPROACH

Course Technology Ptr PART I: FUNDAMENTALS OF MEASUREMENT AND EXPERIMENTATION 1. Measurement: What Is It and Why Do It? 2. The Basics of Measurement 3. A Goal-Based Framework for Software Measurement 4. Empirical Investigation 5. Software Metrics Data Collection 6. Analyzing Software-Measurement Data PART II: SOFTWARE-ENGINEERING MEASUREMENT 7. Measuring Internal Product Attributes: Size 8. Measuring Internal Product Attributes: Structure 9. Measuring Internal Product Attributes 10. Software Reliability: Measurement and Prediction 11. Resource Measurement: Productivity, Teams, and Tools 12. Making Process Predictions PART III: MEASUREMENT AND MANAGEMENT 13. Planning a Measurement Program 14. Measurement in Practice 15. Empirical Research in Software Engineering APPENDIXES: A. Solutions to Selected Exercises / B. Metric Tools / C. Acronyms and Glossary / ANNOTATED BIBLIOGRAPHY / INDEX

IOT SYSTEM DESIGN

PROJECT BASED APPROACH

Springer Nature This book presents a step by step design approach to develop and implement an IoT system starting from sensor, interfacing to embedded processor, wireless communication, uploading measured data to cloud including data visualization along with machine learnings and artificial intelligence. The book will be extremely useful towards a hands-on approach of designing and fabricating an IoT system especially for upper undergraduate, master and PhD students, researchers, engineers and practitioners.

INDIA HIGHER EDUCATION REPORT 2017

TEACHING, LEARNING AND QUALITY IN HIGHER EDUCATION

SAGE Publishing India Understanding teaching, learning and quality in higher education requires in-depth engagement with theoretical discourse and empirical evidences. With this objective, the Centre for Policy Research in Higher Education (CPRHE) has initiated multiple research activities to develop deeper insights into quality concerns in higher education. India Higher Education Report 2017 evaluates the Indian higher education system in terms of teaching, learning and quality and presents a comprehensive analysis of reforms that took place in these domains. Organized into three major parts—ranking, research and quality; teachers and teaching-learning; and quality management—this book discusses changes and issues that have affected the country's higher education system in recent times. This seminal work is a must-have for scholars and researchers of education, social science and public policy.

LECTURES ON THE INDUSTRIAL REVOLUTION IN ENGLAND

POPULAR ADDRESSES NOTES AND OTHER FRAGMENTS ... 1887

INDIA HIGHER EDUCATION REPORT 2018

FINANCING OF HIGHER EDUCATION

SAGE Publications India *In the last few decades, India has experienced several shifts in the policies pertaining to the financing of higher education. These shifts include a move from public financing to keep pace with the expansion requirements of the sector; the strengthening of market forces in higher education both through privatisation of public institutions and operation of private institutions; and a move from the financing of institutions to the financing of students. The Centre for Policy Research in Higher Education (CPRHE) has initiated major research activities to understand how the recent changes have affected the financing of higher education in India and how the higher education institutions cope with and respond to these changes. India Higher Education Report 2018, the fourth volume in the series, presents this study to provide a comprehensive analysis of financing of higher education in India. This book investigates the changing dynamics and related key issues including state-market dynamics, university-industry linkages, foreign aid, institutional strategies to overcome shortages in funding, issues with self-financing courses, educational loans and fee reimbursement schemes, expansion and financing of private higher education.*

WHO GOES TO SCHOOL?

EXPLORING EXCLUSION IN INDIAN EDUCATION

Oxford University Press, USA *Contributed articles presented at a conference.*

PRESIDENT PRATIBHA DEVISINGH PATIL

SELECTED SPEECHES
