

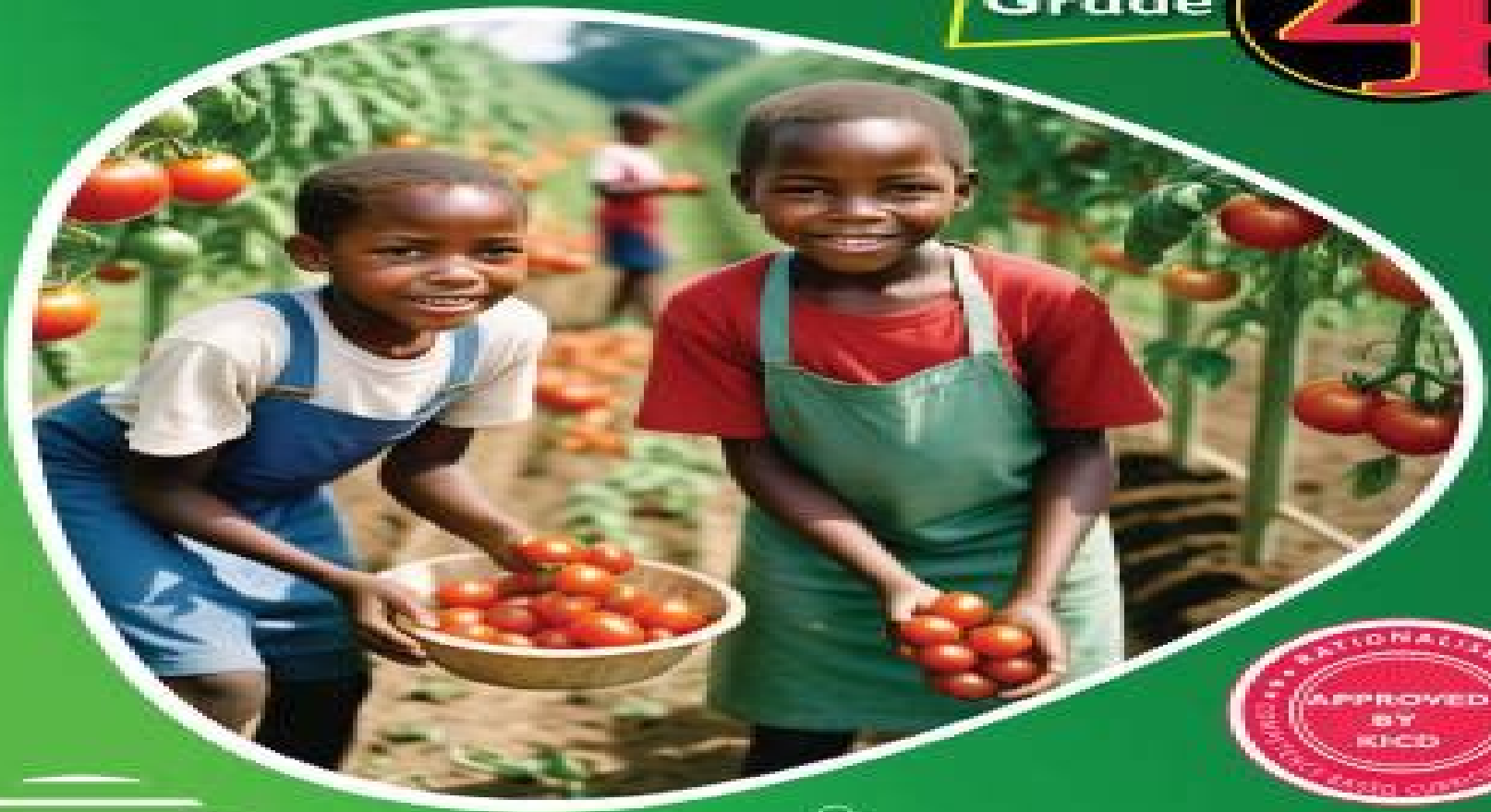
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**Roshani Raut, Salahddine Krit, Prasenjit
Chatterjee**

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Resources in Education ,2000-10 *Real-World Applications of AI Innovation* Mallik, Saurav,Mathivanan, Sandeep Kumar,Sangeetha, S.K.B.,Soufiene, Ben Othman,2024-12-02 Artificial intelligence AI innovation works to transform various sectors driving efficiency enhancing decision making and creating new opportunities for growth From healthcare and finance to agriculture and entertainment real world applications of AI are demonstrating its potential to solve complex problems and improve everyday life As these technologies continue to evolve further exploration into the integration of AI into different fields may allow for a more efficient sustainable and innovative future *Real World Applications of AI Innovation* explores the latest advancements and practical applications of artificial intelligence across various domains It delves into cutting edge AI methodologies algorithms and technologies providing readers with a deep understanding of the current landscape and future trends in AI research and development This book covers topics such as smart farming machine learning and deep neural networks and is a useful resource for computer engineers scientists medical professionals agriculturalists educators researchers academicians and business owners Artificial Intelligence Arthur G.O. Mutambara,2025-04-09 This book presents contextualised and detailed research on Artificial Intelligence AI and the Global South It examines the key challenges of these emerging and least industrialised countries while proffering holistic and comprehensive solutions The book then explains how AI as part of these broad interventions can drive Global South economies to achieve inclusive development and shared prosperity The book outlines how countries can swiftly prepare to adopt and develop AI across all sectors It presents novel national regional and continental AI adoption development and implementation frameworks Features Broad non AI interventions and prescriptions to address Global South challenges A comprehensive but accessible introduction to AI concepts technology infrastructure systems and innovations such as AlphaFold ChatGPT 4 and DeepSeek R1 An overview of AI related technologies such as quantum computing battery energy storage systems 3D printing nanotechnology IoT and blockchain How to prepare emerging economies to unlock the benefits of AI while mitigating the risks Discussion of specific AI applications in 11 critical Global South sectors Details of 11 sector case studies of AI adoption in the Global South and Global North Ten country case studies Sharing emergent AI experiences in the Global South AI adoption framework vision strategy policy governance legislation regulation and implementation matrix A framework for democratising and decolonising AI The value proposition for AI research development and ownership in the Global South A case for the participation of the Global South in the AI semiconductor industry This book is aimed at policymakers business leaders graduate students academics researchers strategic thinkers and world leaders seeking to understand and leverage the transformative role of AI based systems in achieving inclusive development economic transformation and shared prosperity **Advanced Computing and Intelligent Technologies** Rabindra Nath Shaw,Sanjoy Das,Marcin Paprzycki,Ankush Ghosh,Monica Bianchini,2024-05-28 This book gathers selected high quality research papers presented at

International Conference on Advanced Computing and Intelligent Technologies ICACIT 2023 which is organized by Indira Gandhi National Tribal University Regional Campus Manipur IGNTU RCM during December 8 9 2023 It discusses emerging topics pertaining to advanced computing intelligent technologies and networks including AI and machine learning data mining big data analytics high performance computing network performance analysis Internet of things networks wireless sensor networks and others The book offers an asset for researchers from both academia and industries involved in advanced studies

Science, Technology and Innovation Diplomacy in Developing Countries Venugopalan Ittekkot, Jasmeet Kaur Baweja, 2023-01-01 This book provides a developing country perspective on the internationalization of science and the role of Science Technology and Innovation Diplomacy STID in leveraging scientific cooperation for sustainable development In articles by individuals from government departments and academic research institutions in nine developing countries it provides a conceptual understanding of the subject and reveals the prevailing perceptions on its praxis practices The articles highlight the significance of international cooperation at bilateral regional and multilateral levels and the need for strengthening the role of STID in foreign policy and strategies of governments The book is a useful reference material to government officials diplomats academicians researchers science counsellors international relations experts science and technology professionals and other stakeholders from the developing countries and transition economies dealing with economic and developmental policy issues and or science technology and innovation STI issues in understanding the praxis and prospects of STID The book is also useful for scholars and international relations experts from developed countries in understanding STI and related issues that affect the relationship of developing countries and transition economies with their partners from the developed world

Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT Valentina E. Balas, G. R. Sinha, Basant Agarwal, Tarun Kumar Sharma, Pankaj Dadheech, Mehul Mahrishi, 2022-05-25 This book constitutes the refereed proceedings of the 5th International Conference on Emerging Technologies in Computer Engineering ICETCE 2021 held in Jaipur India in February 2022 The 40 revised full papers along with 20 short papers presented were carefully reviewed and selected from 235 submissions The papers are organized according to the following topical headings cognitive computing Internet of Things IoT machine learning and applications soft computing data science and big data analytics blockchain and cyber security

Machine Vision and Machine Learning for Plant Phenotyping and Precision Agriculture Huajian Liu, Zhanyou Xu, 2024-01-18 Plant phenotyping PP describes the physiological and biochemical properties of plants affected by both genotypes and environments It is an emerging research field that is assisting the breeding and cultivation of new crop varieties to be more productive and resilient to challenging environments Precision agriculture PA uses sensing technologies to observe crops and then manage them optimally to ensure that they grow in healthy conditions have maximum productivity and have minimal negative effects on the environment Traditionally the observation of plant traits heavily relies on human experts which is labor intensive time consuming and

subjective Automatic crop traits measurement in PP and PA are two different fields but they share the same sensing and data processing technologies in many respects Recently driven by computer and sensor technologies machine vision MV and machine learning ML have contributed to accurate high throughput and nondestructive plant phenotyping and precision agriculture However these technologies are still in their infant stage and there are many challenges and questions related to them that still need to be addressed The goal of this Research Topic is to provide a platform to share the latest research results on the application of MV and ML for PP and PA It aims to highlight cutting edge technologies bottle necks and future research directions for MV and ML in crop breeding crop cultivation disease management weed control and pest control

Oilseed Crops Yogesh Suryawanshi, Mohd. Shahnawaz, Jyoti Parihar, Refaz Ahmad Dar, Shallu Samyal, Avinash B.

Ade, 2025-03-17 Oilseed Crops offers essential insights into sustainable biotechnological advancements that are vital for enhancing oil production and meeting the skyrocketing global demand for food fuel and energy Plants particularly oilseed crops have played a crucial role in biotechnology since the early 20th century providing sustainable resources for food fodder and fuel The book Oilseed Crops delves into using biotechnological methods to enhance both edible and non edible oils sustainably It offers an in depth look at the global oil plant market growth influencers adulteration detection and yield improvement strategies Highlighting significant advancements in oilseed research such as plant microbe interactions drought resistance and molecular biotechnologies the book focuses on increasing oil yields and discusses the production of biofuels from non edible oilseeds to meet rising biofuel demands

Artificial Intelligence: Theory and Applications

Harish Sharma, Antorweep Chakravorty, Shahid Hussain, Rajani Kumari, 2024-02-27 This book features a collection of high quality research papers presented at International Conference on Artificial Intelligence Theory and Applications AITA 2023 held during 11 12 August 2023 in Bengaluru India The book is divided into two volumes and presents original research and review papers related to artificial intelligence and its applications in various domains including health care finance transportation education and many more

California Agriculture, 2012 *Digital Transformation of Education and Learning - Past, Present and Future* Don Passey, Denise Leahy, Lawrence Williams, Jaana Holvikivi, Mikko

Ruohonen, 2022-03-12 This book constitutes the refereed post conference proceedings of the IFIP TC 3 Open Conference on Computers in Education OCCE 2021 held in Tampere Finland in August 2021 The 22 full papers and 2 short papers included in this volume were carefully reviewed and selected from 44 submissions The papers discuss key emerging topics and evolving practices in the area of educational computing research They are organized in the following topical sections Digital education across educational institutions National policies and plans for digital competence Learning with digital technologies and Management issues

Cases on Collaborative Experiential Ecological Literacy for Education Nahar, Lizoon, Tayem, Nada, 2024-08-15 In the aftermath of global environmental challenges the urgent need for comprehensive environmental education has never been more evident As our planet grapples with the ramifications of climate change there

is a critical gap in empowering educators and students to actively engage with these issues on a global scale The lack of effective classroom strategies national policies and collaborative initiatives hinders the development of the next generation to address environmental issues and contribute to sustainable solutions Cases on Collaborative Experiential Ecological Literacy for K 12 Education is a groundbreaking book a beacon of hope and a comprehensive solution to the pressing environmental education gap It uniquely reports on experiential projects that have successfully empowered teachers and students across all academic levels worldwide The book s compelling narratives reflections and empirical research serve as a roadmap illustrating how direct experiences can profoundly influence environmental literacy By providing insights into effective classroom strategies national policies and global collaborative initiatives this book provides educators and students with the tools to not only understand environmental issues but actively contribute to solutions

Computer Science Engineering and Emerging Technologies Rajeev Sobti,Rachit Garg,Ajeet Kumar Srivastava,Gurpeet Singh Shahi,2024-06-07 The year 2022 marks the 100th birth anniversary of Kathleen Hylda Valerie Booth who wrote the first assembly language and designed the assembler and auto code for the first computer systems at Birkbeck College University of London She helped design three different machines including the ARC Automatic Relay Calculator SEC Simple Electronic Computer and APE X School of Computer Science and Engineering under the aegis of Lovely Professional University pays homage to this great programmer of all times by hosting BOOTH100 6th International Conference on Computing Sciences

Educational Research and Innovation Innovative Learning Environments OECD,2013-09-25 This report presents a wealth of international material and features a new framework for understanding innovative learning environments

Research in Education ,1974

The Routledge Handbook on Livelihoods in the Global South Fiona Nunan,Clare Barnes,Sukanya Krishnamurthy,2022-05-05 The Routledge Handbook on Livelihoods in the Global South presents a unique timely comprehensive overview of livelihoods in low and middle income countries Since their widespread adoption in the 1990s livelihoods perspectives frameworks and methods have influenced diverse areas of research policy and practice The concept of livelihoods reflects the complexity of strategies and practices used by individuals households and communities to meet their needs and live their lives The Handbook brings together insights and critical analysis from diverse approaches and experiences learning from research and practice over the last 30 years The Handbook comprises an introductory section on key concepts and frameworks followed by five parts on researching livelihoods negotiating livelihoods generating livelihoods enabling livelihoods and contextualising livelihoods The introduction provides readers with an appreciation of concepts researched and applied in the five parts including chapters on vulnerability and resilience social capital and networks and institutions Each part reflects the diversity of approaches taken to understanding livelihoods whilst recognising commonalities including the centrality of power in shaping enabling and constraining livelihoods The book also reflects diversity of context including conflict climate change and religion as well as in generating livelihoods through agriculture

small scale mining and pastoralism The aim of each chapter is to provide a critically informed introduction and overview of key concepts issues and debates of relevance to the topic with each chapter concluding with suggestions for further reading It will be an essential resource to students researchers and practitioners of international development and related fields Researchers and practitioners will also benefit from the book s diverse disciplinary contributions and by the wide and contemporary coverage

Adoption and Use of Technology Tools and Services by Economically Disadvantaged Communities: Implications for Growth and Sustainability Etim, Alice S.,2023-11-09 Economically disadvantaged communities in many regions around the world are making concerted efforts to become integrated into the global information society The adoption and use of an array of technology tools and services by these communities will pave the way for their inclusion Adoption and Use of Technology Tools and Services by Economically Disadvantaged Communities Implications for Growth and Sustainability examines the challenges facing economically disadvantaged communities with respect to their digital divide and emerging opportunities as they adopt modern ICT tools and services for growth and sustainability Focus is given to research on ICT adoption use and impact on lives businesses and societies Covering topics such as the digital divide food traceability and big data analytics this premier reference source is an excellent resource for sociologists government officials community leaders students and educators of higher education librarians researchers and academicians

Recent Advances in Material, Manufacturing, and Machine Learning Rajiv Gupta,Devendra Deshmukh,Awanikumar P. Patil,Naveen Kumar Shrivastava,Jayant Giri,R.B. Chadge,2023-05-26 The role of manufacturing in a country s economy and societal development has long been established through their wealth generating capabilities To enhance and widen our knowledge of materials and to increase innovation and responsiveness to ever increasing international needs more in depth studies of functionally graded materials tailor made materials recent advancements in manufacturing processes and new design philosophies are needed at present The objective of this volume is to bring together experts from academic institutions industries and research organizations and professional engineers for sharing of knowledge expertise and experience in the emerging trends related to design advanced materials processing and characterization and advanced manufacturing processes

Generative AI for Cybersecurity and Privacy Youssef Baddi,Yassine Maleh,Izzat Alsmadi,Mohamed Lahby,2025-11-25 Generative AI for Cybersecurity and Privacy offers a groundbreaking exploration of how generative artificial intelligence is reshaping the landscape of cybersecurity and privacy protection in an era of rapid digital transformation As cyber threats grow in sophistication and scale this book provides a timely and authoritative guide to harnessing generative AI to safeguard digital ecosystems secure sensitive data and address emerging challenges across diverse domains Spanning a series of expertly curated chapters this volume delves into cutting edge advancements and practical applications of generative AI in cybersecurity It covers critical areas such as AI driven threat detection and response privacy preserving AI models secure IoT and cloud computing frameworks and robust defenses

for cyber physical systems including Smart Cities and wireless networks The book balances rigorous theoretical foundations with real world case studies making it an essential resource for researchers security professionals policymakers and organizational leaders The book offers comprehensive coverage of key topics including Leveraging generative AI for proactive threat detection risk analysis and automated incident response Innovative approaches to data privacy compliance and governance in AI driven systems Advanced methodologies for securing IoT mobile applications and cloud infrastructures Practical frameworks for integrating generative AI into cybersecurity strategies for critical infrastructures Emerging applications of generative AI in personalized secure digital experiences such as e commerce and smart systems Authored by a global team of leading researchers and practitioners this book stands out by not only addressing current cybersecurity and privacy challenges but also proposing forward thinking scalable solutions powered by generative AI Unlike traditional resources it emphasizes the transformative potential of AI in revolutionizing risk analysis threat mitigation and privacy preservation across multiple domains Whether you re navigating the complexities of IoT cloud security or emerging cyber threats Generative AI for Cybersecurity and Privacy equips you with the knowledge and tools to build intelligent secure and future ready strategies for a dynamic digital world

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