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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 *Data Science Solutions on Azure* Julian Soh, Priyanshi Singh, 2024-11-18 This revamped and updated book focuses on the latest in AI technology Generative AI It builds on the first edition by moving away from traditional data science into the area of applied AI using the latest breakthroughs in Generative AI Based on real world projects this edition takes a deep look into new concepts and approaches such as Prompt Engineering testing and grounding of Large Language Models fine tuning and implementing new solution architectures such as Retrieval Augmented Generation RAG You will learn about new embedded AI technologies in Search such as Semantic and Vector Search Written with a view on how to implement Generative AI in software this book contains examples and sample code In addition to traditional Data Science experimentation in Azure Machine Learning AML that was covered in the first edition the authors cover new tools such as Azure AI Studio specifically for testing and experimentation with Generative AI models What's New in this Book Provides new concepts tools and technologies such as Large and Small Language Models Semantic Kernel and Automatic Function Calling Takes a deeper dive into using Azure AI Studio for RAG and Prompt Engineering design Includes new and updated case studies for Azure OpenAI Teaches about Copilots plugins and agents What You'll Learn Get up to date on the important technical aspects of Large Language Models based on Azure

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Four Battlegrounds Paul Scharre, 2023-02-28 An NPR 2023 Books We Love Pick One of the Next Big Idea Club's Must Read Books An invaluable primer to arguably the most important driver of change for our future P W Singer author of *Burn In* An award winning defense expert tells the story of today's great power rivalry the struggle to control artificial intelligence A new industrial revolution has begun Like mechanization or electricity before it artificial intelligence will touch every aspect of our lives and cause profound disruptions in the balance of global power especially among the AI superpowers China the United States and Europe Autonomous weapons expert Paul Scharre takes readers inside the fierce competition to develop and implement this game changing technology and dominate the future *Four Battlegrounds* argues that four key elements define this struggle data computing power talent and institutions Data is a vital resource like coal or oil but it must be collected and refined Advanced computer chips are the essence of computing power control over chip supply chains grants leverage over rivals Talent is about people which country attracts the best researchers and most advanced technology companies The fourth battlefield is maybe the most critical the ultimate global leader in AI will have institutions that effectively incorporate AI into their economy society and especially their military Scharre's account surges with futuristic technology He explores the ways AI systems are already discovering new strategies via millions of war game simulations developing combat tactics better than any human tracking billions of people using biometrics and subtly controlling information with secret algorithms He visits China's National Team of leading AI companies to show the chilling synergy between China's government private sector and surveillance state He interviews Pentagon leadership and tours U S Defense Department offices in Silicon Valley revealing deep tensions between the military and tech giants who control data chips and talent Yet he concludes that those tensions inherent to our democratic system create resilience and resistance to autocracy in the face of overwhelmingly powerful technology Engaging and direct *Four Battlegrounds* offers a vivid picture of how AI is transforming warfare global security and the future of human freedom and what it will take for democracies to remain at the forefront of the world order

Deploying Artificial Intelligence to Achieve the UN Sustainable Development Goals Arthur Guseni Oliver Mutambara, 2025-07-01 This book provides research insights into how Artificial Intelligence AI can be used to achieve the UN's Sustainable Development Goals SDGs 17 interconnected goals designed to address the world's most pressing challenges by 2030 It reviews the SDGs and discusses why progress has been mixed and uneven across different

countries regions and goals The book posits that attaining the SDGs will depend on enhanced global cooperation increased funding improved infrastructure public private partnerships regional continental integration addressing the climate crisis inclusive economic transformation and visionary leadership More specifically the publication advocates leveraging innovative and transformative technologies particularly the deployment of AI The research acknowledges the risks of digital imperialism data colonialism and technological exclusion especially in emerging and least industrialised economies Hence in deploying AI to achieve the SDGs the book puts a premium on decoloniality in AI systems and democratising AI technology Provides a critique of the current SDGs approach by reframing the goals as a comprehensive risk assessment of humanity s most pressing threats in the 21st century Features broad and holistic interventions to accelerate the attainment of the SDGs Provides a comprehensive but accessible introduction to AI concepts and advanced innovations such as AlphaFold ChatGPT 4 DeepSeek R1 Grok 3 and autonomous vehicles drones and driverless cars Discusses the AI strategies of leading economies and assesses the impact of AI on geopolitics Provides a comprehensive critique of global AI efforts by the UN and African Union while proffering alternative paradigms and frameworks Presents the enablers drivers and strategic framework of AI deployment to achieve the SDGs Develops and presents details of six distinct but related components of a novel Strategic Framework for developing and adopting AI Vision Strategy Policy Governance Legislation Regulations and Implementation Matrix Outlines specific ways that AI can be deployed to achieve each of the 17 SDGs and reviews seven countries experiences Explores an innovative forward looking and technology driven framework for equitable global socio economic transformation to succeed the SDGs post 2030

From Street-smart to Web-wise® Al Marcella,Brian Moore,Madeline Parisi,2025-10-16 Our seventh and eighth graders are now officially teens and online activities are second nature From Street smart to Web wise A Cyber Safety Training Manual Built for Teachers and Designed for Children isn t just another book Teachers will find this book to be a road map to navigate the digital landscape safely with confidence and care as their critical job of ensuring students safety in a digital world expands Dive into engaging content that illuminates the importance of cyber safety not only in our classrooms but extending into the global community Written by authors who are recognized experts in their respective fields this accessible manual is a timely resource for educators Each chapter is filled with practical examples and teacher tips stimulating discussion points and ready to use lesson plans tailored for students in seventh and eighth grades Regardless of your technology skill level this book will provide you with the guidance and the tools you need to make student cyber safety awareness practical fun and impactful Parents consider educators their partners in creating cyber secure spaces This book stands as a framework of commitment to that partnership whether you are in a middle school environment or in a child serving agency It confirms proactive steps in equipping our young learners with the awareness and skills they need to tread the digital world securely By choosing From Street smart to Web wise A Cyber Safety Training Manual Built for Teachers and Designed for Children you position yourself at the forefront of educational guardianship

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Proceedings of ... Annual Convention of the National Association of Animal Breeders National Association of Animal Breeders,1970 *Statistical Theory and Method Abstracts* ,2001

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