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This book tackles the ethical problems of the “ Fourth Industrial Revolution ” (4IR) and offers readers an overview of the ethical

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challenges connected to Artificial Intelligence (AI), encryption and the finance industry. It specifically focuses on the situation of females in these industries, from women lawyers, judges, attorneys-at-law, investors and bankers, to portfolio

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managers, solicitors and civil servants. As the 4IR is more than “ just ” a technology-driven transformation, this book is a call to policymakers and business leaders to harness new technologies in order to create a

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more inclusive, human-centered future. It offers many practical cases of proactive change agents, and offers solutions to the ethical challenges in connection with implementing revolutionary disruptive products that often

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eliminate the intermediary. In addition, the book addresses sustainable finance in startups. In this context, education, training, agility and life-long learning in financial literacy are some of the key solutions highlighted here. The

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respective contributors supply a diverse range of perspectives, so as to promote a multi-stakeholder approach.

Intelligence is at the heart of what makes us human, but the methods we use for identifying, talking

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about and valuing human intelligence are impoverished. We invest artificial intelligence (AI) with qualities it does not have and, in so doing, risk losing the capacity for education to pass on the emotional, collaborative, sensory

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and self-effective aspects of human intelligence that define us. To address this, Rosemary Luckin--leading expert in the application of AI in education - proposes a framework for understanding the complexity of

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human intelligence. She identifies the comparative limitation of AI when analyzed using the same framework, and offers clear-sighted recommendations for how educators can draw on what AI does best to nurture and expand

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our human capabilities.

The Fourth Industrial Revolution revolves around cyber-physical systems and artificial intelligence. Little is certain about this new wave of innovation, which leaves industrialists and educators in the

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lurch without much guidance on adapting to this new digital landscape. Society must become more agile and place a higher emphasis on lifelong learning to master new technologies in order to stay ahead of the changes and

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overcome challenges to become more globally competitive.

Promoting Inclusive Growth in the Fourth Industrial Revolution is a collection of innovative research that focuses on the role of formal education in preparing students for

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uncertain futures and for societies that are changing at great speed in terms of their abilities to drive job creation, economic growth, and prosperity for millions in the future. Featuring coverage on a broad range of topics including

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economics, higher education, and safety and regulation, this book is ideally designed for teachers, managers, entrepreneurs, economists, policymakers, academicians, researchers, students, and professionals in the

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fields of human resources, organizational design, learning design, information technology, and e-learning.

In The Fourth Revolution, John Micklethwait and Adrian Wooldridge ask: what is the state

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actually for? Their remarkable book describes the three great revolutions in its history, and the fourth which is happening now In most of the states of the West, disillusion with government has become endemic. Gridlock in

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America; anger in much of Europe; cynicism in Britain; decreasing legitimacy everywhere. Most of us are resigned to the fact that nothing is ever going to change. But as John Micklethwait and Adrian Wooldridge show us in this

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galvanising book, this is a seriously limited view of things. In response to earlier crises in government, there have been three great revolutions, which have brought about in turn the nation-state, the liberal state and the welfare state.

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In each, Europe and America have set the example. We are now, they argue, in the midst of a fourth revolution in the history of the nation-state, but this time the Western way is in danger of being left behind. The Fourth Revolution

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brings the crisis into full view and points toward our future. The authors enjoy extraordinary access to influential figures and forces the world over, and the book is a global tour of the innovators. The front lines are in Chinese-oriented

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Asia, where experiments in state-directed capitalism and authoritarian modernization have ushered in an astonishing period of development. Other emerging nations are producing striking new ideas, from Brazil's conditional

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cash-transfer welfare system to India's application of mass-production techniques in hospitals. These governments have not by any means got everything right, but they have embraced the spirit of active reform and reinvention

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which in the past has provided so much of the West's comparative advantage. The race is not just one of efficiency, but one to see which political values will triumph in the twenty-first century: the liberal values of democracy and freedom

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or the authoritarian values of command and control. The centre of gravity is shifting quickly, and the stakes could not be higher.

JOHN MICKLETHWAIT is the Editor-in-Chief of the Economist;
ADRIAN WOOLDRIDGE was its

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Washington bureau chief until 2009, and now serves as Management Editor and 'Schumpeter' columnist. They have written four previous books together: The Company: A Short History of a Revolutionary Idea; A

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Future Perfect: The Challenge and
Promise of Globalization; The
Witchdoctors: Making Sense of the
Management Gurus; The Right
Nation: Why America is Different;
and God is Back: How the Global
Rise of Faith is Changing the

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World.
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Reconsidered
Will Artificial Intelligence Enrich or
Diminish Humanity?
The Fourth Industrial Revolution
and the Recolonisation of Africa

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Promoting Inclusive Growth in the
Fourth Industrial Revolution
Handbook of Research on Ethics,
Entrepreneurship, and Governance
in Higher Education
Analyzing Future Applications of
AI, Sensors, and Robotics in Society

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A guide to building a better world

The Fourth Education

Revolution Will Artificial

Intelligence Liberate Or

Infantilise Humanity Legend

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This book explores the

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core themes of the Fourth Industrial Revolution (4IR) highlighting the digital transformation that has been occurring in society and business. Representing an interface

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between technologies in the physical, digital and biological disciplines the book explores emerging technologies such as artificial intelligence, robotics, the Internet of

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Things, autonomous
vehicles, 3-D printing,
nanotechnology,
biotechnology, materials
science, energy storage,
and quantum computing. The
findings of collaborative

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research studies on the potential impact of the 4IR on the labour markets, occupations, future workforce competencies and skills associated with eight industry sectors in

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Australia are reported.

The sectors are:

agriculture and mining;

manufacturing and

logistics; health, medical

and nursing; education;

retail; financial

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services; government
services and tourism.

The founder and executive
chairman of the World
Economic Forum on how the
impending technological
revolution will change our

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lives We are on the brink of the Fourth Industrial Revolution. And this one will be unlike any other in human history.

Characterized by new technologies fusing the

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physical, digital and biological worlds, the Fourth Industrial Revolution will impact all disciplines, economies and industries - and it will do so at an unprecedented

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rate. World Economic Forum data predicts that by 2025 we will see: commercial use of nanomaterials 200 times stronger than steel and a million times thinner than human hair;

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the first transplant of a 3D-printed liver; 10% of all cars on US roads being driverless; and much more besides. In The Fourth Industrial Revolution, Schwab outlines the key

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technologies driving this revolution, discusses the major impacts on governments, businesses, civil society and individuals, and offers bold ideas for what can be

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done to shape a better future for all.

The Fourth Industrial Revolution is changing everything - from the way we relate to each other, to the work we do, the way

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our economies work, and what it means to be human.

We cannot let the brave new world that technology is currently creating simply emerge. All of us need to help shape the

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future we want to live in.
But what do we need to
know and do to achieve
this? In *Shaping the
Fourth Industrial
Revolution*, Klaus Schwab
explores how people from

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all backgrounds and sectors can influence the way that technology transforms our world. Drawing on contributions by more than 200 of the world's leading

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technology, economic and sociological experts to present a practical guide for citizens, business leaders, social influencers and policy-makers this book outlines

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the most important dynamics of the technology revolution, highlights important stakeholders that are often overlooked in our discussion of the latest scientific

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breakthroughs, and explores 12 different technology areas central to the future of humanity. Emerging technologies are not predetermined forces out of our control, nor

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are they simple tools with known impacts and consequences. The exciting capabilities provided by artificial intelligence, distributed ledger systems and cryptocurrencies,

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advanced materials and biotechnologies are already transforming society. The actions we take today - and those we don't - will quickly become embedded in ever-

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more powerful technologies that surround us and will, very soon, become an integral part of us. By connecting the dots across a range of often-misunderstood

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning technologies, and by exploring the practical steps that individuals, businesses and governments can take, Shaping the Fourth Industrial Revolution helps equip

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readers to shape a truly
desirable future at a time
of great uncertainty and
change.

How the Infosphere is
Reshaping Human Reality
Proceedings of the 22nd

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International Conference
on Interactive
Collaborative Learning
(ICL2019) - Volume 2
Vocational Education in
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Embracing the Fourth
Industrial Revolution
Standing at the Precipice
Education and Employment
in a Post-Work Age
Africa and the Fourth
Industrial Revolution

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Information and records management has been an important part of society for establishing procedures to effectively manage information. As technology has increased

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in society, this essential function has been impacted as well. With the onset of technological tools brought upon by the fourth industrial revolution, technologies such as

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*artificial intelligence,
the internet of things,
big data, and more have
changed the face of
information and records
management. These
technologies and tools*

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have paved new ways for security, efficiency in timely processes, new ways to create and process records, and other beneficial traits. Along with these advancements

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come new contemporary issues, leading to the need for research on how exactly information records management is functioning in modern times, the technologies

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning brought on by the fourth industrial revolution, and both the benefits and challenges to this transition. The Handbook of Research on Information and Records Management in

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the Fourth Industrial Revolution showcases contemporary issues and demonstrates the value of information and records management in the fourth industrial revolution. The

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*Artificial Intelligence Is
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book provides a summary of
the key activities

*undertaken by information
and records managers as
they seek to make records
and information management
more visible in the modern*

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knowledge-driven society. The chapters highlight innovation, the use of information and communication technology in information and records management, best

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practices, challenges encountered, and how they are overcome. The target audience of this book will be composed of professionals, librarians, archivists, lecturers, and

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researchers working in the field of library and information science, along with practitioners, academicians, and students interested in information and records management in

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*the 21st century.
How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most*

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sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze

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stocks, work in factories, find parking spaces, advise oncologists. In the past, automation was considered a threat to low-skilled labor. Now, many high-skilled functions,

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including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students

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for their professional lives when professions themselves are disappearing? In Robot-Proof, Northeastern University president Joseph Aoun proposes a way

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*to educate the next
generation of college
students to invent, to
create, and to discover—to
fill needs in society that
even the most
sophisticated artificial*

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*intelligence agent cannot.
A "robot-proof" education,
Aoun argues, is not
concerned solely with
topping up students' minds
with high-octane facts.
Rather, it calibrates them*

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with a creative mindset and the mental elasticity to invent, discover, or create something valuable to society—a scientific proof, a hip-hop recording, a web comic, a

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cure for cancer. Aoun lays out the framework for a new discipline, humanics, which builds on our innate strengths and prepares students to compete in a labor market in which

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*smart machines work
alongside human
professionals. The new
literacies of Aoun's
humanics are data
literacy, technological
literacy, and human*

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literacy. Students will need data literacy to manage the flow of big data, and technological literacy to know how their machines work, but human literacy—the humanities,

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communication, and design—to function as a human being. Life-long learning opportunities will support their ability to adapt to change. The only certainty about the

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future is change. Higher education based on the new literacies of humanics can equip students for living and working through change.

The global digital economy

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continues to demand the need for educated and highly trained professionals, requiring higher learning institutions to provide accessible technology-

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driven experience to prepare future leaders effectively. However, there are challenges involved in creating a robust curriculum and recruiting top-notch

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faculty all over the world while also meeting the academic criteria to offer effective academic programs and degrees to students. The Handbook of Research on Challenges and

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Opportunities in Launching a Technology-Driven International University is a pivotal reference source that provides empirical and theoretical research focused on the

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effective construction of technology-driven higher learning international universities. While highlighting topics such as accelerated and innovative curriculum,

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recruitment of international faculty, on-campus development, and distance learning systems, this publication explores the financial and economic impacts of launching a

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university, and the methods of how to identify the appropriate locale for universities and/or branch campuses that will ideally complement the local interest of business

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sectors within the selected location. This book is ideally designed for entrepreneurs, practitioners, academicians, administrators, government

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*officials, researchers,
and consultants.*

*Argues that information
and communication
technologies have
fundamentally changed the
way people relate to*

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others, proposing a new
view of ethics and ecology
that considers the
implications of the
infosphere.

*Internet, Artificial
Intelligence and*

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*Artificial Intelligence
and the Fourth Industrial
Revolution
Closing the Gap
The Future of Education
for the 21st Century*
Closing the Gap is an accessible overview

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of the fourth industrial revolution (4IR) and the impact it is set to have on various sectors in South Africa and Africa. It explores the previous industrial revolutions that have led up to this point and outlines what South Africa's position has been through each one. With a focus on artificial intelligence as a core concept

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in understanding the 4IR, this book uses familiar concepts to explain artificial intelligence, how it works and how it can be used in banking, mining, medicine and many other fields. Written from an African perspective, Closing the Gap addresses the challenges and fears around the 4IR by pointing to the opportunities presented by

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new technologies and outlining some of the challenges and successes to date.

This book helps decision makers grasp the importance, and applicability to business, of the new technologies and extended connectivity of systems that underlie what is becoming known as the Fourth Industrial Revolution: technologies and

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systems such as artificial intelligence, machine learning, 3D printing, the internet of things, virtual and augmented reality, big data and mobile networks. The WEF, OECD and UN all agree that humanity is on the cusp of the Fourth Industrial Revolution. As intelligent systems become integrated into every aspect of our lives

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this revolution will induce cultural and societal change of a magnitude hitherto unforeseen. These technologies challenge the values, customer experience and business propositions that have been the mainstay of almost every business and organization in existence. By redefining and encapsulating new value structures

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with emerging intelligent technologies, new innovative models are being created, and brought to market. Understanding the potential and impact of these changes will be a fundamental leadership requirement over the coming years. Skilton and Hovsepian provide decision makers with practical, independent and authoritative

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guidance to help them prepare for the changes we are all likely to witness due to the rapid convergence of technological advances. In short, bite-sized, nuggets, with frameworks supported by a deep set of practical and up-to-the-minute case studies, they shine light on the new business models and enterprise

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architectures emerging as businesses seek to build strategies to thrive within this brave new world.

This open access collection examines how higher education responds to the demands of the automation economy and the fourth industrial revolution. Considering significant trends in how people are

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learning, coupled with the ways in which different higher education institutions and education stakeholders are implementing adaptations, it looks at new programs and technological advances that are changing how and why we teach and learn. The book addresses trends in liberal arts integration of STEM innovations, the

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changing role of libraries in the digital age, global trends in youth mobility, and the development of lifelong learning programs. This is coupled with case study assessments of the various ways China, Singapore, South Africa and Costa Rica are preparing their populations for significant shifts in labour market

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demands — shifts that are already underway. Offering examples of new frameworks in which collaboration between government, industry, and higher education institutions can prevent lagging behind in this fast changing environment, this book is a key read for anyone wanting to understand how the world should

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respond to the radical technological shifts underway on the frontline of higher education.

It's time for the educational slugfest to stop. "Traditional" and "progressive" education are both caricatures, and bashing cartoon images of each other is unprofitable and unedifying. The search

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for a new model of education – one that is genuinely empowering for all young people – is serious and necessary. Some good progress has already been made, but teachers and school leaders are being held back by specious beliefs, false oppositions and the limited thinking of orthodoxy. Drawing on recent experience in England,

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North America and Australasia, but applicable round the world, The Future of

Teaching clears away this logjam of bad science and slack thinking and frees up the stream of much-needed innovation. This timely book aims to banish arguments based on false claims about the brain and poor understanding of cognitive science,

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reclaim the nuanced middle ground of teaching that develops both rigorous knowledge and "character", and lay the foundations for a 21st-century education worthy of the name.

Developing Mathematical Literacy in the
Context of the Fourth Industrial
Revolution

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Human Capital Formation for the Fourth
Industrial Revolution

The Impact of the 4th Industrial
Revolution on Engineering Education
Responding to the Impact of Artificial
Intelligence on Business
Climate Change, The Fourth Industrial
Revolution and Public Pedagogies

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Shaping the Future of the Fourth Industrial
Revolution

Handbook of Research on Challenges and
Opportunities in Launching a Technology-
Driven International University

In the context of the Fourth
Industrial Revolution, a world of
continuous alterations is glimpsed

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where science and technology are at the base of economic competitiveness and where innovation plays a strategic role in global competition, so that they are forced to cover a series of requirements to compete successfully in an increasingly

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globalized economy, including high investments in both education and research. Along these lines, the formation of mathematical learning is important because it is oriented towards the development of a set of skills with the aim of resolving situations of daily and professional

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lives. It focuses on the acquisition of employing the different ways of representing information in the form of models, constructions, and graphs to determine the best decision making. In this sense, it includes the mastery of the handling of numbers, measures,

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and structures to carry out the interpretation of operations and representations of a quantitative nature on personal and professional situations. For a society to favor innovation, the use of mathematical information is an essential condition that allows the

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development of creativity and
analysis of information.

Mathematics education plays a
vital role in this development.

Developing Mathematical Literacy
in the Context of the Fourth
Industrial Revolution studies the
formation of mathematical abilities

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in the context of the Fourth Industrial Revolution regarding its development of both teaching and learning strategies, as well as the use of ICT and its use in the development of this discipline in students. It is important that teachers of any educational level

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reorient their teaching strategies and their role as educators.

Therefore, the chapters discuss up-to-date and relevant information on teaching and didactic tasks in the subject of mathematics. This book highlights mathematical pedagogies, ICT in mathematics

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learning, teacher training, and classroom strategies for mathematics. It is intended for teachers, pedagogical advisors, business trainers, higher education staff, administrators, teacher educators, practitioners, stakeholders, researchers,

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academicians, and students interested in mathematical literacy in the fourth industrial revolution. Advances in technological innovations, automation, and the latest developments in artificial intelligence (AI) have revolutionized the nature of work

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Artificial Intelligence Is Changing The Face Of Learning and created a demand for a new set of skills to navigate the Fourth Industrial Revolution (Industry 4.0). Therefore, it is necessary to equip displaced workers with a new set of skills that are essential for conversion into technical or other functional areas of business.

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning Human Capital Formation for the Fourth Industrial Revolution is an essential research publication that recognizes the need to revitalize human capital formation for graduate employability in Industry 4.0 and discusses new skills and competencies needed to cope with

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the challenges present within this industrial revolution. The book seeks to provide a basis for curriculum design in line with the advances in technological innovations, automation, and artificial intelligence to enhance current and future employment.

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Featuring an array of topics such as curriculum design, emotional intelligence, and healthcare, this book is ideal for human resource managers, development specialists, training officers, teachers, universities, practitioners, academicians,

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researchers, managers,
policymakers, and students.

This book gathers papers
presented at the 22nd International
Conference on Interactive
Collaborative Learning (ICL2019),
which was held in Bangkok,
Thailand, from 25 to 27 September

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning 2019. Covering various fields of e-learning and distance learning, course and curriculum development, knowledge management and learning, real-world learning experiences, evaluation and outcomes assessment, computer-aided

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language learning, vocational education development and technical teacher training, the contributions focus on innovative ways in which higher education can respond to the real-world challenges related to the current transformation in the development

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of education. Since it was established, in 1998, the ICL conference has been devoted to new approaches in learning with a focus on collaborative learning. Today, it is a forum for sharing trends and research findings as well as presenting practical

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Artificial Intelligence Is Changing The Face Of Learning experiences in learning and engineering pedagogy. The book appeals to policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, and other professionals in the learning industry, and further and

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continuing education.

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This book argues that the fourth industrial revolution, the process of accelerated automation of traditional manufacturing and industrial practices via digital technology, will serve to further marginalise Africa within the

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international community. In this book, the author argues that the looting of Africa that started with human capital and then natural resources, now continues unabated via data and digital resources looting. Developing on the notion of "Coloniality of Data", the fourth

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industrial revolution is postulated as the final phase which will conclude Africa ' s peregrination towards recolonisation. Global cartels, networks of coloniality, and tech multi-national corporations have turned Big Data into capital, which is left

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unguarded in Africa as the continent lacks the strong institutions necessary to regulate the mining of data. Written from a decolonial perspective, this book employs three analytical pillars of coloniality of power, knowledge and being. It concludes with an

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assessment of what could be done to help to turn the fourth industrial revolution from a curse into a resource. Highlighting the crippling continuation of asymmetrical global power relations, this book will be an important read for researchers of African studies,

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politics and international political
economy.

Economics of the Fourth Industrial
Revolution

The Oxford Handbook of Lifelong
Learning

What does it mean for Australian
Industry?

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The Fourth Education Revolution
Management Training Programs in
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Industrial Revolution: Emerging
Research and Opportunities
Will Artificial Intelligence Liberate

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Or Infantilise Humanity
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As the most influential activity for social and economic development of individuals and societies, education is a powerful means of shaping the future. The emergence of physical

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and digital technologies requires an overhaul that would affect not only the way engineering is approached but also the way education is delivered and designed. Therefore, designing and developing

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curricula focusing on the competencies and abilities of new generation engineers will be a necessity for sustainable success.

Engineering Education Trends in the Digital Era is a critical scholarly resource

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning that examines more digitized ways of designing and delivering learning and teaching processes and discusses and acts upon developing innovative engineering education within global, societal, economic,

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and environmental contexts.
Highlighting a wide range of
topics such as academic
integrity, gamification, and
professional development,
this book is essential for
teachers, researchers,
educational policymakers,

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curriculum designers,
educational software
developers, administrators,
and academicians.
In this visionary book,
written by six
internationally recognized
Global Teacher Prize

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finalists, the authors create a positive and hope-filled template for the future of education. They address the hard moral, ethical and pedagogical questions facing education today so that progress can

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serve society, rather than
destroying it from within
our classrooms. This
blueprint for education
finally brings forward what
has always been missing in
education reform: a strong
collective narrative with

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authentic examples from teachers on the front line. It is a holistic, personalized approach to education that harnesses the disruptions of the Fourth Industrial Revolution to better shape the future for

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the next generation, and ensure that every child can benefit from the ongoing transformations. A great read for anyone who has an interest in educating our youth for these uncertain times, highlighting why

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teachers will always matter. Avoiding prejudice will be critical to economic success in the fourth industrial revolution. It is not the new and innovative technology that will matter in the next decade, but what

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we do with it. Using technology properly, with diverse decision making, is the difference between success and failure in a changing world. This will require putting the right person in the right job at

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the right time. Prejudice stops that happening. Profit and Prejudice takes us through the relationship between economic success and prejudice in labour markets. It starts with the major changes that occur in

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periods of economic upheaval. These changes tend to be unpopular and complex - and complexity encourages people to turn to the simplistic arguments of 'scapegoat economics' and prejudice. Some of the

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changes of the fourth industrial revolution will help fight prejudice, but some will make it far worse. The more prejudice there is, the harder it will be for companies and countries to profit from the changes

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ahead. Profit is not the main argument against prejudice, but can certainly help fight it. This book tells a story of the damage that prejudice can do. Using economics without jargon, students, investors and the

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public will be able to follow the narrative and see how prejudice can be opposed. Prejudice is bad for business and the economy. Profit and Prejudice explains why. There is no more important

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issue facing education, or humanity at large, than the fast approaching revolution in Artificial Intelligence or AI. This book is a call to educators everywhere to open their eyes to what is coming. If we do so, then

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the future will be shaped by
us in the interests of
humanity as a whole.

The Case for Ecosocialism

The Coloniality of Data

The Fourth Industrial

Revolution: Implementation
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The Fourth Industrial

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Revolution and Its Impact on
Ethics Changing The Face Of Learning

Higher Education in the Era
of the Fourth Industrial
Revolution

***This book, presented in
considerably updated and***

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***extended second edition,
is a call to educators
everywhere to open their
eyes to what is coming. If
we do so, then the future
will be shaped by us for
the common interests of***

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humanity - but if we don't, then it will be imposed, and we will all lose.

"The landscape for education has been rapidly changing in the

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***last years: demographic
changes affecting the
makeup of families,
multiple school options
available to children,
wealth disparities, the
global economy***

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demanding new skills from workers, and continued breakthroughs in technology are some of the factors impacting education. Given these changes, how can schools

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**continue to prepare
students for the future?**

***In a world where
information is readily
available online, how can
schools continue to be
relevant? The emergence***

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of Artificial Intelligence (AI) has exacerbated the need to have these conversations. Its impact on education and the multiple possibilities that it offers are putting

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pressure on educational leaders to reformulate the school curriculum and the channels to deliver it. The book "Artificial Intelligence in Education, Promises and

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Implications for Teaching and Learning" by the Center for Curriculum Redesign immerses the reader in a discussion on what to teach students in the era of AI and

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examines how AI is already demanding much needed updates to the school curriculum, including modernizing its content, focusing on core concepts, and embedding

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interdisciplinary themes and competencies with the end goal of making learning more enjoyable and useful in students' lives. The second part of the book dives into the

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history of AI in education, its techniques and applications -including the way AI can help teachers be more effective, and finishes on a reflection about the

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social aspects of AI. This book is a must-read for educators and policy-makers who want to prepare schools to face the uncertainties of the future and keep them

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is **relevant."** --**Amada Torres, VP, Studies, Insights, and Research, National Association of Independent School (NAIS) "The rapid advances in technology in**

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recent decades have already brought about substantial changes in education, opening up new opportunities to teach and learn anywhere anytime and providing

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***new tools and methods to
improve learning
outcomes and support
innovative teaching and
learning. Research into
artificial intelligence and
machine learning in***

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education goes back to the late 1970s. Artificial intelligence methods were generally employed in two ways: to design and facilitate interactive learning environments

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***that would support
learning by doing, and to
design and implement
tutoring systems by
adapting instructions
with respect to the
students' knowledge***

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state. But this is just the beginning. As Artificial Intelligence in Education shows, AI is increasingly used in education and learning contexts. The collision of three areas -

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data, computation and education - is set to have far-reaching consequences, raising fundamental questions about the nature of education: what is taught

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and how it is taught. Artificial Intelligence in Education is an important, if at times disturbing, contribution to the debate on AI and provides a detailed

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analysis on how it may affect the way teachers and students engage in education. The book describes how artificial intelligence may impact on curriculum design, on

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the individualisation of learning, and on assessment, offering some tantalising glimpses into the future (the end of exams, your very own lifelong learning

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companion) while not falling victim to tech-hype. The enormous ethical, technical and pedagogical challenges ahead are spelt out, and there is a real risk that

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the rapid advances in artificial intelligence products and services will outstrip education systems' capacity to understand, manage and integrate them

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**appropriately. As the
book concludes: "We can
either leave it to others
(the computer scientists,
AI engineers and big tech
companies) to decide how
artificial intelligence in**

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education unfolds, or we can engage in productive dialogue." I commend this book to anyone concerned with the future of education in a digital world." --Marc Durando,

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**Executive Director,
European Schoolnet**
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***The need to reform
secondary-level
education to prepare
young people for new
economic realities has***

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emerged. In an age of constant career changing, cognitive flexibility is a top-priority skill to develop in today's students. This shift requires methodological

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innovation that enhances children's natural abilities as well as updated, focused teacher education in order to prepare them adequately. Educational Reform and

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International Baccalaureate in the Asia-Pacific is a collection of innovative research that examines the development and implementation of IB

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curricula. Highlighting a wide range of topics including critical thinking, student evaluation, and teacher training, this book is ideally designed for

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educators, curriculum developers, instructional designers, administrative officials, policymakers, researchers, academicians, and students.

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***This book focuses on the
implementation of AI for
growing business, and
the book includes
research articles and
expository papers on the
applications of AI on***

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decision-making, health care, smart universities, public sector and digital government, FinTech, and RegTech. Artificial Intelligence (AI) is a vital and a fundamental driver

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for the Fourth Industrial Revolution (FIR). Its influence is observed at homes, in the businesses and in the public spaces. The embodied best of AI reflects robots which

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drive our cars, stock our warehouses, monitor our behaviors and warn us of our health, and care for our young children. Some researchers also discussed the role of AI in

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the current COVID-19 pandemic, whether in the health sector, education, and others. On all of these, the researchers discussed the impact of AI on decision-making in

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**those vital sectors of the
economy.**
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**The 4th Industrial
Revolution
Machine Learning and
Human Intelligence
The Luddites of the**

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**Promises and
Implications for Teaching
and Learning
The Fourth Industrial
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***Profit and Prejudice
Solving the Challenges of
the Agenda 2030***
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Teaching and Learning in the
21st Century: Embracing the
Fourth Industrial Revolution
explores responsive and

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innovative pedagogies arising from findings of research and practitioner experiences, globally. This book clarifies concepts and issues that surround teaching and learning for the 21st century.

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This book covers the overall technology spectrum in AI and the Fourth Industrial Revolution that is set to revolutionize the world as we know it. It is a handbook for CEOs, entrepreneurs, and university VCs, as well as

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the vast workforce and students with tech or non-tech backgrounds. It covers aspects and case studies from industry, academics, administration, law, finance and accounting, as well as educational technology. The

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contributors, who are experts in their respective fields and from industry and academia, focus on gesture recognition prototype for specially abled people, jurisprudential approach to artificial intelligence and

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legal reasoning, automated
chatbot for autism spectrum
disorder using ai
assistance, Big Data
analytics and IoT, design of
the 3D printed dexterous
prosthetic arm, discerning
and demonstrating consumer

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emotion and surfing behavior to develop personalized ontology, emotionally intelligent AI, role of artificial intelligence in advancement of drug discovery and development, opportunities and challenges

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Revolution, legal ethical
and policy implications of
artificial intelligence,
Internet of Health Things
for smart healthcare and
digital well-being, machine
learning and computer

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vision, a computer vision-based system for automation and industrial applications, AI-IoT in home-based healthcare, and AI in super-precision human brain and spine surgery. Buttressed with comprehensive

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theoretical, methodological, well-established and validated empirical examples, the volume covers the interests of a very vast audience from basic science to engineering and technology experts and

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learners. It could eventually work as a textbook for engineering and biomedical students, students of master's programs in science, and researchers. The book also serves common public

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interest by presenting new methods to improve the quality of life in general, with a better integration into society.

"This book explores the future challenges and hidden potentials of the

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application of artificial intelligence, sensors, and robotics in society" --
Climate Change, The Fourth Industrial Revolution and Public Pedagogies: The Case for Ecosocialism uses public pedagogy as a theoretical

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lens to examine climate change emergency and presents a solution to the issue in ecosocialism. The book addresses the climate's relationship with capitalism and the role of activism in highlighting the climate

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change emergency. With respect to the Fourth Industrial Revolution, Cole assesses the pro-capitalist arguments that this revolution can be considered a progressive force and critiques them from a

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Marxist perspective. A case is made for ecosocialism, a form of socialism that is informed by feminism, inclusivity and real democracy. Ecosocialism, it is argued, can address climate change destruction

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and harness the potential
fruits of the Fourth
Industrial Revolution for
the good of all. The book
ends by addressing the other
great threat to civilisation
alongside climate change,
with a postscript providing

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some final words of warning about the dual perils of climate change and nuclear warfare. This highly topical book will be of interest to scholars, postgraduate students and researchers, as well as to advanced

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undergraduate students in the fields of environmental studies, pedagogy, and sociology. It will also appeal to all readers who are concerned with the onward march of climate change destruction.

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Proceedings of the 22nd
International Conference on
Interactive Collaborative
Learning (ICL2019) – Volume
1

Robot-Proof

Under the Fourth Industrial Revolution, it
is important that organizations recruit and

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retain managers with skills that allow them to focus on meeting strategic objectives.

To achieve this, companies must focus on implementing strategic management that allows managers to manage and lead continuous change, creativity, innovation, learning, productivity, speed, and effectiveness of their activities that turn

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them into constant value generators.

Managers must also possess personal competences such as initiative, resilience, assumption of risk, creativity, networking, empathy, negotiation, self-control, self-knowledge, and the ability to turn difficulties into opportunities. These capabilities are important in the context of

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emerging research investigating empirical studies on the formation of management

competences in higher education in the context of the Fourth Industrial Revolution in regards to its development and linkage with the business sector in order to offer educational strategies at the national and international level. Featuring

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coverage on a broad range of topics such as sustainable development, circular economics, and big data analysis, this book is ideally designed for academicians, educators, executives, managers, entrepreneurs, organizational development specialists, consultants, policymakers, researchers, administration

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professionals, and high-level students.

Changing The Face Of Learning
This book applies cutting-edge economic analysis and social science to unpack the rich complexities and paradoxes of the Fourth Industrial Revolution. The book takes the reader on a bold, refreshing, and informative tour through its technological drivers, its profound impact on human

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generation of new pioneers to rewrite "accepted rules" and find new avenues to empower billions of people to thrive. This book will help readers to discern the difference between disruption and transformation. The reader will come away from this book with a deeply intuitive and highly contextual

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understanding of the core technological advances transforming the world as we know it. Beyond this, the reader will clearly appreciate the future impacts on our economies and social structures. Most importantly, the reader will receive an insightful and actionable set of guidelines to assist them in harnessing the Fourth

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Industrial Revolution so that both they and their communities may flourish. The authors do not primarily seek to make prescriptions for government policy, but rather to speak directly to people about what they can do for themselves, their families, and their communities to be future-proofed and ready to adapt to life in

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a rapidly evolving world ecosystem.

The Responsive University puts forward the proposition that the societal legitimacy of universities depends on whether and how they respond to societal challenges. This issue is exemplified in South Africa, one of the most unequal countries in the world.

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This book gathers papers presented at the 22nd International Conference on

Interactive Collaborative Learning (ICL2019), which was held in Bangkok, Thailand, from 25 to 27 September 2019. Covering various fields of interactive and collaborative learning, new learning models and applications, research in

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engineering pedagogy and project-based learning, the contributions focus on innovative ways in which higher education can respond to the real-world challenges related to the current transformation in the development of education. Since it was established, in 1998, the ICL conference has been devoted to new approaches in

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learning with a focus on collaborative learning. Today, it is a forum for sharing trends and research findings as well as presenting practical experiences in learning and engineering pedagogy. The book appeals to policymakers, academics, educators, researchers in pedagogy and learning theory, school teachers, and other

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professionals in the learning industry, and
further and continuing education.

Emerging Research and Opportunities

The Fourth Industrial Revolution in
Africa

Artificial Intelligence in Education

Educational Reform and International

Baccalaureate in the Asia-Pacific

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Curse or Cure?

This book examines the concept of the fourth industrial revolution and its potential impact on vocational education and training. Broadly located in a framework rooted in

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critical/radical theory, the book argues that the affordance of technologies surrounding the fourth industrial revolution are constrained by their location within a neoliberal, if not capitalist, logic. Thus, the

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impact of this revolution will be experienced differently across European regions as well as low and middle income economies. In order to break this impasse, this book calls for a politics based on non-reformist reforms,

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premised on an aspiration towards a socially just society that transcends capitalism. Ethics, entrepreneurship, and governance are very essential and crucial for the sustainable development of institutions of

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higher education, especially in the face of moral ambiguity or ethical lapses that could occur. As such, it is vital to explore how to facilitate the effective and efficient development of higher education institutions to put

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is a pivotal reference source that provides vital research on the application of ethics, entrepreneurship, and governance in higher education institutions. Featuring coverage topics such academic

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misconduct, ethical leadership, and student values, this publication is ideally designed for educational administrators, professors, academicians, researchers, and graduate-level students seeking current

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research on the impact of globalization on the ethics and governance in higher education through various policy decisions and practices.

This Handbook provides a comprehensive and up-to-date

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examination of lifelong learning. Across 38 chapters, including twelve that are brand new to this edition, the approach is interdisciplinary, spanning human resources development, adult learning

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning (educational perspective), psychology, career and vocational learning, management and executive development, cultural anthropology, the humanities, and gerontology. This volume

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covers trends that contribute to the need for continuous learning, considers psychological characteristics that relate to the drive to learn, reviews existing theory and research on adult learning,

Download File PDF The Fourth Education Revolution: How Artificial Intelligence Is Changing The Face Of Learning describes training methods and learning technologies for instructional design, and explores current and future challenges to support continuous learning. There is no more important

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issue facing education, or humanity at large, than the fast approaching revolution in Artificial Intelligence or AI. This book is a call to educators everywhere to open their eyes to what is coming. If we do so,

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then the future will be shaped by us in the interests of humanity as a whole - but if we don't, it will be imposed by others. Britain and the US have an excellent education system in their schools and universities

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- excellent, but tailored to the twentieth century. The factory mass teaching methods of the third revolution era have failed to conquer enduring problems of inequity and unfairness. Students have to make progress

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at a set rate which demotivates some and bores others. And for all the new technologies, teachers remain weighed down by routine administration and only a narrow range of our aptitudes are encouraged. Will

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the fourth AI revolution be able to remedy these problems? We

have allowed ourselves to believe that teaching can uniquely be done only by the teacher, but might it in fact be better carried out by AI

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machines? Or at least in concert with teachers? The evolution of AI, still in its infancy, raises a range of issues of enormous importance as we grapple with how we as humans will interact with it. AI will be an altogether

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new way of spreading quality education across the world, especially to those hundreds of millions who do not have it. And coming it is - the final part of the book stresses that we have to embrace AI and ensure that we

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shape it to the best advantage of humanity. If we get it wrong, there may be no second opportunity. The conclusion... Nothing matters more than education if we are to see AI liberate not infantilise

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