The Fourth Education Revolution How Artificial Intelligence Is Changing The Face Of Learning

World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine "smart factories" in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

The presents the argument that our current crisis in government is nothing less than the fourth radical transition in the history of the nation-state. The race to get government right is not just a race of efficiency. It is a race to which political values will triumph in the twenty-first century—the liberal values of democracy and liberty or the authoritarian values of command and control.

This book, presented in considerably updated and 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 good of humanity—but if we do not, then it will be imposed, and we will all lose.

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 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 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, premised on an aspiration towards a socially just society that transcends capitalism.

Clutter has a negative effect on your life. You want to live differently, but you haven't been able to make progress. Marcie Lovett, author of The Clutter Book, will motivate you to make the changes you want. Learn to go of what you don't need and find room for what you value. The direct, accessible writing style and interactive exercises will inspire you to succeed. In this book, Marcie guides you through the process of letting go of the clutter that is keeping you from achieving success. Whether your clutter is caused by things, commitments or thoughts, Marcie encourages you to make the choices to conquer your challenges. If previous attempts at letting go of clutter have not been successful for you, you will benefit from the motivation and wisdom Marcie offers. Written in a straightforward and accessible style, filled with insight and real-life stories, the book enables readers to learn from the experience of others and overcome obstacles to success. You will understand why you keep clutter, save time and money by avoiding unnecessary purchases, discover the habits that hold you back, find ways to fight procrastination and create systems that allow you to retrieve and return items. Whether you want to live with less or live with what you have, this is the book for you. The landscape for education has been rapidly changing in the last years: demographic changes affecting the makeup of families, multiple school options available to children, wealth disparities, the global economy demanding new skills from workers, and continued breakthroughs in technology are some of the factors impacting education. Given these changes, how can schools 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 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 pressure on educational leaders to reformulate the school curriculum and the channels to deliver it. The book “Artificial Intelligence in Education, Promises and 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 examines how AI is already demanding much needed updates to the school curriculum, including modernizing its content, focusing on core concepts, and embedding 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 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 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 relevant.” --Amada Torres, VP, Studies, Insights, and Research, National Association of Independent School (NAIS) “The rapid advances in technology in recent decades have already brought about substantial changes in education, opening up new opportunities to teach and learn anywhere anytime and providing new tools and methods to improve learning outcomes and support innovative teaching and learning. Research in artificial intelligence and machine learning in education goes back to the late 1970s. Artificial intelligence methods were generally employed in two ways: to design and facilitate interactive learning environments that would support learning by doing, and to design and implement tutoring systems by adapting instructions with respect to the students' knowledge 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 - data, computation and education - is set to have far-reaching consequences, raising fundamental questions about the nature of education: what is taught 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 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 the individualisation of learning, and on assessment, offering some tantalising glimpses into the future (the end of exams, your very own lifelong learning 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 the rapid advances in artificial intelligence products and services will outstrip education systems' capacity to understand, manage and integrate them appropriately. As the book concludes: "We can either leave it to others (the computer scientists, AI engineers and big tech companies) to decide how much artificial intelligence in 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, Executive Director, European Schoolnet

Advances in technological innovations, automation, and the latest developments in artificial intelligence (AI) have revolutionized the nature of work 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. 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 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. 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, researchers, managers, policymakers, and students.

In Revolution of the Right to Education, A. Reis Monteiro offers an interdisciplinary and topical introduction to the International Education Law, broadly defined, striving to explain why the normative integrity of the right to education carries far-reaching revolutionary significance. 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 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 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 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 respond to the radical technological shifts underway on the frontline of higher education.

Dr. Griffiths’ Principals of Inclusion is both a practical, realistic blueprint and an inspiring call to action for accelerating schools/school systems in their search to optimize all students’ potential (inclusion). In an information age and an increasingly interconnected Global Village, no student's potential can afford to be wasted, especially by exclusionary educational practices/traditions (either conscious or unconscious). Dr. Griffiths writes clearly, using universal metaphors/tactics applicable to all educational situations. 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 ecosystems, and its potential for sustainable human development. The overarching message to the reader is that the Fourth Industrial Revolution is not merely something to be feared or survived; rather, this dramatic collision of technologies, disciplines, and ideas presents a magnificent opportunity for a 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 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 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 a rapidly evolving world ecosystem. I challenge you to find a field as interesting and exciting as Deep Learning. This book is a spin-off from my previous book “The Deep Learning AI Playbook.” The Playbook was meant for a professional audience. This is targeted to a much wider audience. There are two kinds of audiences, those looking to explore and those looking to optimize. There are two ways to learn, learning by exploration and learning by exploitation. This book is about exploration into the emerging field of Deep Learning. It's more like a popular science book and less of a business book. It's not going to provide any practical advice of how to use or deploy Deep Learning. However, it's a book that will explore this new field in many more perspectives. So at the very least, you'll walk away with the ability to hold a very informative and impressive conversation about this unique subject. It's my hope that having less constraints on what I can express can lead to a more insightful and novel book. There are plenty of ideas that are either too general or too speculative to fit within a business oriented book. With a business book, you always want to manage expectations. Artificial Intelligence is one of those topics that you want to keep speaking in a conservative manner. That's one reason I felt the need for this book. Perhaps the freedom to be more liberal can give readers more ideas as where this field is heading. Also, it's not just business that needs to understand Deep Learning. We are all going to be profoundly impacted by this new kind of Artificial Intelligence and it is critical we all develop at least a good intuition of how it will change the world. The images in the front cover are all generated using Deep Learning technology.

World Economic Forum Founder and Executive Chairman Klaus Schwab offers a practical companion and field guide to his previous book, The Fourth Industrial Revolution. Today, technology is changing everything—how we relate to one another, the way we work, how our economies and governents function, and even what it means to be human. One need not look hard to see how the incredible advances in artificial intelligence, cryptocurrencies, biotechnologies, and the internet of things are transforming society in unprecedented ways. But the Fourth Industrial Revolution is just beginning, says Schwab. And at a time of such tremendous uncertainty and such rapid change, he argues it's our actions as individuals and leaders that will determine the trajectory our future will take. We all have a responsibility - as citizens, businesses, and institutions - to work with the current of progress, not against it, to build a future that is ethical, inclusive, sustainable and prosperous. Drawing on contributions from 200 top experts in fields ranging from machine learning to geoengineering to nanotechnology, to data ethics, Schwab equips readers with the practical tools to leverage the technologies of the future to leave the world better, safer, and more resilient than we found it.
"Social Mastery Made Simple is a comprehensive social skills program developed for children and adolescents with learning disabilities. Students will learn every aspect of social interaction, from the simple to the complex"--Back cover.

Explains how to get involved in the continuing adult education industry, covering such topics as creating business models for the online learning landscape, promoting content, creating an action plan, and converting prospects to customers.

Twelve-term Texas Congressman, Presidential candidate, and #1 New York Times bestselling author Ron Paul returns with a highly provocative treatise about how we need to fundamentally change the way we think about America’s broken education system in order to fix it. Whether or not you have children, you know that education is vital to the prosperity and future of our society. Yet our current system simply doesn’t work. Parents feel increasingly powerless, and nearly half of Americans give our schools a grade of “C”. Now, in his new book, Ron Paul attacks the problem head-on and provides a focused solution that centers on strong support for home schooling and the application of free market principles to the American education system. Examining the history of education in this country, Dr. Paul identifies where we’ve gone wrong, what we can do about it, and how we can change the way we think about education in order to provide a brighter future for Americans.

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

The Fourth Education RevolutionWill Artificial Intelligence Liberate Or Infantilise HumanityLegend Press Ltd

This book seeks to critically examine the impacts of ‘grand designs’ in public policy through a detailed historical analysis of Australian schooling reforms since the ‘education revolution’ agenda was introduced by the federal government in the late 2000s. Combining policy analyses and interviews with senior policy makers and ministerial advisors centrally involved in the reforms, it offers a detailed interpretive analysis of the complexities of policy evolution and assemblage. The book argues that the education revolution sought to impose a new order on Australian schooling by aligning state and territory systems to common policies and processes in areas including curriculum, assessment, funding, reporting and teaching. Using a theory and critique of ‘alignment thinking’ in public policy, Savage shows how the education revolution and subsequent reforms have been underpinned by uncritical faith in the power of nationally aligned data, evidence and standards to improve policies and unite systems across practices ‘proven to work’. The result is a new national policy assemblage that has deeply reshaped the making and doing of schooling policy in the nation, generating complex questions about who is steering the ship of education into the future. The Quest for Revolution in Australian Schooling Policy is a must read for education policy researchers, policy makers, education ministers and school leaders, and will appeal to anyone with an interest in the complex power dynamics that underpin schooling reforms.

The need to reform secondary-level education to prepare young people for new economic realities has 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 innovation that enhances children’s natural abilities as well as updated, focused teacher education in order to prepare them adequately. Educational Reform and International Baccalaureate in the Asia-Pacific is a collection of innovative research that examines the development and implementation of IB curricula. Highlighting a wide range of topics including critical thinking, student evaluation, and teacher training, this book is ideally designed for educators, curriculum developers, instructional designers, administrative officials, policymakers, researchers, academicians, and students.

Become an irresistible school Our rapidly evolving world is dramatically impacting how we view schools. Fortunately, we have the knowledge to not only survive, but thrive during rapid change. Organizations have faced these evolutionary disruptions for centuries. Thrive: How Schools Will Win the Education Revolution translates this knowledge for educators. Written by Grant Lichtman, a thought leader on the transformation of education, this book will help administrators understand: • The most important concepts in creating long-term success: value, strategy, and innovation • The Five Big Tools of strategic change, to build both a comfort and capacity for change • The reality of competing in an evolving marketplace

In this visionary book, written by six internationally recognized Global Teacher Prize 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 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 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 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 teachers will always matter.

Decisions by a school district are more controversial than the decision to close a school. School staff, students and their families, and even the local community all bear a substantial burden once the decision is made to close a school. Since 2001, Chicago Public Schools (cps) has closed 44 schools for reasons of poor academic performance or underutilization. Despite the attention that school closings have received in the past few years, very little is known about how displaced students fare after their schools are closed. This report examines the impact that closing schools had on the students who attended these schools. The authors focus on regular elementary schools that were closed between 2001 and 2006 for underutilization or low performance and ask whether students who were forced to leave these schools and enroll elsewhere experienced any positive or negative effects from this type of school move. They look at a number of student outcomes, including reading and math achievement, special education referrals, retentions, summer school attendance, mobility, and high school performance. They also examine characteristics of the receiving schools and ask whether differences in these schools had any impact on the learning experiences of students who transferred into them. The authors report six major findings: (1) Most students who transferred out of closing schools reenrolled in schools that
were academically weak; (2) The largest negative impact of school closings on students’ reading and math achievement occurred in the year before the schools were closed; (3) Once students left schools slated for closing, on average the additional effects on their learning were neither negative nor positive; (4) Although the school closing policy had only a small overall effect on student test scores, it did affect summer school enrollment and subsequent school mobility; (5) When displaced students reached high school, their on-track rates to graduate were no different than the rates of students who attended schools similar to those that closed; and (6) The learning outcomes of displaced students depended on the characteristics of receiving schools. Overall, they found few effects, either positive or negative, of school closings on the achievement of displaced students. Appended are: (1) School Closings and New Openings; and (2) Data, Analytic Methods, and Variables Used. (Contains 5 tables, 12 figures and 53 endnotes.)For the (What Works Clearinghouse (wwc) Quick Review of this report, see ed510790.).

In high school, everyone's talking about college. What to do. Where to go. Why it's important. Classes are given on it. Books are written about it. But details get left out. Every year, college graduates learn this the hard way as they step into adulthood. I was one of them. After earning a four-year degree, I went through two of the worst years of my life. Not that my situation is unique. I am a part of a generation that was told to go to college first and sort out the details later. Most of us did. We chased the promise of a big shiny future, and we ended up being chased by the mistakes of our past. That's not to say we completely regretted going. This book isn't a list of privileged millennial complaints. It's a collection of wisdom gained in less than pleasant ways. It's a story of hardship, failure, victory, and perseverance. It's all of the things we wish someone had told us. And it takes place before college, in the promise, and without college. This is the wild, painful, awkward, hilarious, depressing, & beautiful journey from youth to maturity. This is the college book that no one ever gave us.

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 decision-making, health care, smart universities, public sector and digital government, FinTech, and RegTech. Artificial Intelligence (AI) is a vital and a fundamental driver for the Fourth Industrial Revolution (FIR). Its influence is observed at homes, in the offices, and in the classrooms. The enthusiasm of AI reflects robots which 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 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 those vital sectors of the economy.

How deep learning—from Google Translate to driverless cars to personal cognitive assistants—is changing our lives and transforming every sector of the economy. The deep learning revolution has brought us driverless cars, the greatly improved Google Translate, fluent conversations with Siri and Alexa, and enormous profits from automated trading on the New York Stock Exchange. Deep learning networks can play poker better than professional poker players and defeat a world champion at Go. In this book, Terry Sejnowski explains how deep learning went from being an arcane academic field to a disruptive technology in the information economy. Sejnowski played an important role in the founding of deep learning, as one of a small group of researchers in the 1980s who challenged the prevailing logic-and-symbol based version of AI. The new version of AI Sejnowski and others developed, which became deep learning, is fueled instead by data. Deep networks learn from data in the same way that babies experience the world, starting with fresh eyes and gradually acquiring the skills needed to navigate novel environments. Learning algorithms extraction from raw data; information can be used to create knowledge; knowledge underlies understanding; understanding leads to wisdom. Someday a driverless car will know the road better than you do and drive with more skill; a deep learning network will diagnose your illness; a personal cognitive assistant will augment your puny human brain. It took nature many millions of years to evolve human intelligence; AI is on a trajectory measured in decades. Sejnowski prepares us for a deep learning future.

Education Revolution: Path Leading Towards Humanitarian and Peaceful World is a book which tells about the importance of effective communication; education: for women's empowerment, education for all, ICT, poems and literature; special education: It's needs, awareness about human rights and duties, students responsibility towards society; and how their amalgamation can bring revolution and thus help in building a better and peaceful world. It is a necessity in the present scenario to inculcate values and make the coming generation aware about the values, education and how it can help in making this world a better place to live in. This is especially true for children as they are the future of the country, and the development of the nation depends upon them. Teachers help in nation building through their efforts and innovative ideas, and they can make a better tomorrow. A humanitarian world, which is the dream of every citizen, can be realized through this book as it would really help readers know how far we have come in bridging the gap between the old traditional societies to the new modern society. This book makes one ponder over what contribution every individual can make as every individual has the capacity and potential to make a difference in this world.

Maximizing student capacity and restoring motivation—the key to school success Brain research has the power to revolutionize education, but it can be difficult for educators to implement innovative strategies without the proper knowledge or resources. The Education Revolution bridges the gap between neuroscience, psychology, and educational practice. It delivers what educators need: current and relevant concrete applications to use in classrooms and schools. Readers will find Teaching strategies and model lessons designed to advance academic performance Solution-focused practices to address the root of negative behaviors Approaches to counteract the negative impact of technology on the brain Concrete methods to improve school climate

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 decision-making, health care, smart universities, public sector and digital government, FinTech, and RegTech. Artificial Intelligence (AI) is a vital and a fundamental driver for the Fourth Industrial Revolution (FIR). Its influence is observed at homes, in the offices, and in the classrooms. The enthusiasm of AI reflects robots which 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 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 those vital sectors of the economy.
planning any activity for children, two important principles of learning are always uppermost in her mind: 1. "I see and I remember." 2. "I do and I understand." She has designed these books to develop differentiating and logical thinking skills in children and evaluate their interests in certain areas, without making them feel like they are being 'tested'. How BEE CLEVER books are DIFFERENT - Objects illustrated are those a child is generally familiar with. - Instructions can be read to a child without having to simplify them. - Illustrations are bold and clear for the child to see and work comfortably. - Accurate use of grammar, punctuation and spelling. - Each book in the series explains the value of doing that specific activity. - Simple 'Do's and Don'ts' create a 'win-win' situation for the child. BEE CLEVER SERIES: - Colouring 1 - Colouring 2 - Join the Dots 1 - Join the Dots 2 Matching - Mazes 1 - Mazes 2 - Numbers 1 - Numbers 2 - Odd One Out - Opposites 1 - Opposites 2 - Pattern & Letter Writing 1 - Pattern & Letter Writing 2 - Phonics 1 - Phonics 2 - Shapes 1 - Shapes 2 - Story Sequence - What's Different? - What's Next? - What's Wrong? Illustrations by Pallavi Basu

There is no more important 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 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 - excellent, but tailored to the twentieth century. The factory mass teaching methods of the third revolution era have failed to conquer enduring problems of inequality and unfairness. Students have to make progress 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 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 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 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 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 humanity.

What is EDU4? It's the place where ALL teaching and learning happens. It is a huge common educational resource and a single person learning tool at the same time. It is global, regional, local and personal simultaneously. It can be public, private and intimate. It works online and offline and the users do not see the difference. Connected or disconnected, communal or individual, cooperative or singular, in EDU4 all students, teachers, parents and school administrators find everything they need for all their educational projects: institutional and personal. There is no more important 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 the future will be shaped by us in the interests of humanity as a whole.

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

Teach your child to memorize an age old poem. It will be with her/him for life. My Grandfather taught it to my father in 1887 when he was 5. My Father taught it to me in 1940 when I was 5. I taught it to my children. Make a video of your child reciting the poem and upload it to YouTube. Let your child start a family tradition.

Our principal concern in this book is to understand three important ideas: learning, technology and innovation, and to examine these ideas and the relationships between them in situ; that is, we examine a number of cases of learning technologies in action in two countries, England and Brazil. The purpose of our study is to provide an explanation of the means to, and constraints on, improvements to educational policies and practices, with particular reference to innovation. We have a plethora of theoretical models that in attempting to deal with causal relations usually come to the conclusion that there are socio-economic-cultural constraints, but these observations largely remain at an abstract level and/or come to very general conclusions that are not of particular help to practitioners in the field. These issues can only be properly addressed after examining the empirical reality and having a spectrum of cases to analyze. By combining the theoretical and the practical, our aim is to explain how and under what conditions new modes of learning can be put into practice successfully and sustainably, in order for the learner to develop innovatory skills and dispositions for work and in the life course.