Robot Proof Higher Education In The Age Of Artifi

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The Fall of the Faculty - Benjamin Ginsberg 2011-05-01 Until very recently, American universities were led mainly by their faculties, which viewed intellectual production and pedagogy as the core missions of higher education. Today, as Benjamin Ginsberg warns in this eye-opening, controversial book, "deanlets"-- administrators and staffers often without serious academic backgrounds or experience-- are setting the educational agenda. The Fall of the Faculty examines the fallout of rampant administrative blight that now plagues the nation's universities. In the past

decade, universities have added layers of administrators and staffers to their payrolls every year even while laying off full-time faculty in increasing numbers--ostensibly because of budget cuts. In a further irony, many of the newly minted--and non-academic--administrators are career managers who downplay the importance of teaching and research, as evidenced by their tireless advocacy for a banal "life skills" curriculum. Consequently, students are denied a more enriching educational experience--one defined by intellectual rigor. Ginsberg also reveals how the legitimate grievances of minority groups and liberal activists, which were traditionally championed by faculty members, have, in the hands of administrators, been reduced to chess pieces in a game of power politics. By embracing initiatives such as affirmative action, the administration gained favor with these groups and legitimized a thinly cloaked gambit to bolster their power over the faculty. As troubling as this trend has become, there are ways to reverse it. The Fall of the Faculty outlines how we can revamp the system so that real educators can regain their voice in curriculum policy. Whose Global Village? - Ramesh Srinivasan 2018-12-04 Technology has shrunk the physical world into a "global village," where we all seem to be connected in an online community worldwide. Yet while we think of platforms such as Twitter and Facebook as accessible to all, in reality, these are commercial entities developed primarily by and for the Western world. Considering how new technologies increasingly shape labor, economics, and politics, these tools often reinforce the inequalities of globalization, rarely reflecting the perspectives of those at the bottom of the digital divide. This book asks us to reconsider "whose global village" we are shaping with the digital technology revolution today. Sharing stories of collaboration with Native Americans in

California and New Mexico, revolutionaries in Egypt, communities in rural India, and others across the world, Ramesh Srinivasan urges us to reimagine what the Internet, mobile phones, or social media platforms may look like when considered from the perspectives of diverse cultures. Such collaboration can pave the way for a people-first approach toward designing and working with new technology worldwide that embraces the realities of communities too often relegated to the margins *Going Broke by Degree* - Richard K. Vedder 2004 Economist Richard Vedder examines the causes of the college tuition crisis and explores ways to reverse this alarming trend.

The One World Schoolhouse - Salman Khan 2012-10-02 A free, world-class education for anyone, anywhere. This is the goal of the Khan Academy, a passion project that grew from an ex-engineer and hedge funder's online tutoring sessions with his niece, who was struggling with algebra, into a worldwide phenomenon. Today millions of students, parents, and teachers use the Khan Academy's free videos and software, which have expanded to encompass nearly every conceivable subject; and Academy techniques are being employed with exciting results in a growing number of classrooms around the globe. Like many innovators, Khan rethinks existing assumptions and imagines what education could be if freed from them. And his core idea-liberating teachers from lecturing and state-mandated calendars and opening up class time for truly human interaction-has become his life's passion. Schools seek his advice about connecting to students in a digital age, and people of all ages and backgrounds flock to the site to utilize this fresh approach to learning. In THE ONE WORLD SCHOOLHOUSE, Khan presents his radical vision for the future of education, as well as his own remarkable story, for the first time. In these pages, you will discover,

among other things: How both students and teachers are being bound by a broken top-down model invented in Prussia two centuries ago Why technology will make classrooms more human and teachers more important How and why we can afford to pay educators the same as other professionals How we can bring creativity and true human interactivity back to learning Why we should be very optimistic about the future of learning. Parents and politicians routinely bemoan the state of our education system. Statistics suggest we've fallen behind the rest of the world in literacy, math, and sciences. With a shrewd reading of history, Khan explains how this crisis presented itself, and why a return to "mastery learning," abandoned in the twentieth century and ingeniously revived by tools like the Khan Academy, could offer the best opportunity to level the playing field, and to give all of our children a world-class education now. More than just a solution, THE ONE WORLD SCHOOLHOUSE serves as a call for free, universal, global education, and an explanation of how Khan's simple yet revolutionary thinking can help achieve this inspiring goal.

Human learning in the digital era - Netexplo (France) 2019-04-17

Artificial Unintelligence - Meredith Broussard 2019-01-29 A guide to understanding the inner workings and outer limits of technology and why we should never assume that computers always get it right. In Artificial Unintelligence, Meredith Broussard argues that our collective enthusiasm for applying computer technology to every aspect of life has resulted in a tremendous amount of poorly designed systems. We are so eager to do everything digitally—hiring, driving, paying bills, even choosing romantic partners—that we have stopped demanding that our technology actually work. Broussard, a software

developer and journalist, reminds us that there are fundamental limits to what we can (and should) do with technology. With this book, she offers a guide to understanding the inner workings and outer limits of technology—and issues a warning that we should never assume that computers always get things right. Making a case against technochauvinism—the belief that technology is always the solution—Broussard argues that it's just not true that social problems would inevitably retreat before a digitally enabled Utopia. To prove her point, she undertakes a series of adventures in computer programming. She goes for an alarming ride in a driverless car, concluding "the cyborg future is not coming any time soon"; uses artificial intelligence to investigate why students can't pass standardized tests; deploys machine learning to predict which passengers survived the Titanic disaster; and attempts to repair the U.S. campaign finance system by building AI software. If we understand the limits of what we can do with technology, Broussard tells us, we can make better choices about what we should do with it to make the world better for everyone.

Futureproof - Kevin Roose 2022-02-08
"A concise, insightful and sophisticated guide to maintaining humane values in an age of new machines."—The New York Times Book Review "While we need to rewrite the rules of the twenty-first-century economy, Kevin's book is a great look at how people can do this on a personal level to always put humanity first."—Andrew Yang With a new afterword by the author You are being automated. After decades of hype and sci-fi fantasies, artificial intelligence is leaping out of research labs and into the center of our lives. Automation doesn't just threaten our jobs. It shapes our entire human experience, with AI and algorithms influencing the TV shows we watch, the music we listen to, the beliefs we hold, and the relationships

we form. And while the age-old debate over whether automation will destroy jobs rages on, an even more important question is being ignored: How can we be happy, successful humans in a world that is increasingly built by and for machines? In Futureproof: 9 Rules for Humans in the Age of Automation, New York Times technology columnist Kevin Roose lays out a hopeful, pragmatic vision for how we can thrive in the age of AI and automation. He shares the secrets of people and organizations that have survived previous waves of technological change, and explains what skills are necessary to stay ahead of today's intelligent machines, with lessons like • Be surprising, social, and scarce. • Resist machine drift. • Leave handprints. • Demote your devices. • Treat AI like a chimp army. Roose rejects the conventional wisdom that in order to succeed in the AI age, we have to become more like machines ourselves—hyper-efficient, data-driven workhorses. Instead, he says, we should focus on being more human, and doing the kinds of creative, inspiring, and meaningful things even the most advanced robots can't do.

Building the Intentional University - Stephen M. Kosslyn 2018-08-28 How to rebuild higher education from the ground up for the twenty-first century. Higher education is in crisis. It is too expensive, ineffective, and impractical for many of the world's students. But how would you reinvent it for the twenty-first century—how would you build it from the ground up? Many have speculated about changing higher education, but Minerva has actually created a new kind of university program. Its founders raised the funding, assembled the team, devised the curriculum and pedagogy, recruited the students, hired the faculty, and implemented a bold vision of a new and improved higher education. This book explains that vision and how it is being realized. The Minerva curriculum

focuses on "practical knowledge" (knowledge students can use to adapt to a changing world); its pedagogy is based on scientific research on learning; it uses a novel technology platform to deliver small seminars in real time; and it offers a hybrid residential model where students live together, rotating through seven cities around the world. Minerva equips students with the cognitive tools they need to succeed in the world after graduation, building the core competencies of critical thinking, creative thinking, effective communication, and effective interaction. The book offers readers both the story of this grand and sweeping idea and a blueprint for transforming higher education.
The Robots are Coming - John Pugliano 2017-05-16 A practical guide to surviving—and even thriving—in the new economy where nearly any job can be automated with artificial intelligence. Let's face it: robots are coming for your job. Regardless of your profession, degree or experience, there is no escaping the automated future. However, you can take steps today that will guarantee you not only survive, but thrive in this new economy. The Robots Are Coming provides the first actionable guide to plan for and actually profit from these disruptive innovations. It offers an easy-to-understand overview of automation trends and explains what you need to know today to secure your future success, including how to: • Understand potential job threats • Develop irreplaceable skills • Foster creative advantages • Identify robot-proof careers • Spot investment opportunities Author John Pugliano, host of the popular Wealthsteading podcast, shows how to harness the uniquely human qualities that will give you the competitive edge over automation: creativity, ingenuity and entrepreneurship. If you want to defeat the robots, you need to have a battle plan. Entrepreneuring the Future of Higher Education - Mary

Landon Darden 2021-01-07 Projections are frightening. Even before the onset of the COVID-19 pandemic, financial considerations were forcing the closing of increasing numbers of American colleges and universities. Higher education in the United States is facing a tsunami of economic issues and the abrupt shift to on-line learning has only accelerated the process. But it doesn't have to be this way. The wobbly two-legged stool that supports virtually every American school – tuition and endowment – was never designed to be sustainable into the 21st century. Instead, the university leaders of the future must embrace the best elements of the most forward-seeing and nimble practitioners of modern business – the entrepreneur. Entrepreneuring the Future of Higher Education: Radical Transformation in Times of Profound Change is that rare nuts-and-bolts guide that provides the essential tools for colleges and universities to switch from barely surviving to thriving. Assisted by an impressive array experts and visionaries, higher education author and futurist Dr. Mary Landon Darden presents a do-able roadmap out of the morass of escalating costs and decreasing revenue. In no-nonsense, sometimes blunt language, Darden lays out specific, revenue streams available to virtually every college – and a step-by-step primer on how to achieve them. Entrepreneuring is not a theoretical argument, parsed with passive-voice modifiers and exceptions. It is a blueprint on how to revive, restore and secure the academy in the second decade of the 21st century. Each chapter addresses significant failures (or missed opportunity) that virtually all modern colleges can rapidly address and reform. Too many institutions are hopelessly attached to the failed practices of the past. Students have changed. Governments have changed. Economic engines and drivers have changed. The need to financially support higher education has not – and it is

more crucial than ever. Entrepreneuring the Future of Higher Education: Radical Transformation in Times of Profound Change is the answer for the post-COVID academy in America: Practical, unapologetically direct, awash in real-life applications and answers.

Robot-Proof - Joseph E. Aoun 2018-08-14
How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze 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, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students for their professional lives when professions themselves are disappearing? In Robot-Proof, Northeastern University president Joseph Aoun proposes a way 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 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 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 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 smart machines work alongside human professionals. The new literacies of Aoun's humanics are data literacy, technological literacy, and human 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, 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 future is change. Higher education based on the new literacies of humanics can equip students for living and working through change.

Learning Innovation and the Future of Higher Education - Joshua Kim 2020-02-11 Ultimately, the authors make a compelling case not only for this turn to learning but for creating new pathways for nonfaculty learning careers, understanding the limits of professional organizations and social media, and the need to establish this new interdisciplinary field of learning innovation.

College Disrupted - Ryan Craig 2015-03-10 Cites the growing prevalence of online courses, "unbundled" programs and education that is disconnected from sports and other previously valued university qualities to profile revolutionary changes occurring in higher education today.

The Fourth Industrial Revolution - Klaus Schwab 2017-01-03 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 manu-facturing 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 Fourth Education Revolution - Anthony Seldon 2018
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 Robots Are Coming! - Andres Oppenheimer 2019-04-30
Staying true to his trademark journalistic approach, Andrés Oppenheimer takes his readers on yet another journey, this time across the globe, in a thought-provoking search to understand what the future holds for today's jobs in the foreseeable age of automation.

The Robots Are Coming! centers around the issue of jobs and their future in the context of rapid automation and the growth of online products and services. As two of Oppenheimer's interviewees -- both experts in technology and economics from Oxford University -- indicate, forty-seven percent of existing jobs are at risk of becoming automated or rendered obsolete by other technological changes in the next twenty years. Oppenheimer examines current changes in several fields, including the food business, legal work, banking, and medicine, speaking with experts in the field, and citing articles and literature on automation in various areas of the workforce. He contrasts the perspectives of "techno-optimists" with those of "techno-negativists" and generally attempts to find a middle ground between an alarmist vision of the future, and one that is too uncritical. A self-described "cautious optimist", Oppenheimer believes that technology will not create massive unemployment, but rather will drastically change what work looks like.

College Made Whole - Chris W. Gallagher 2019-09-24 Lucidly written and packed with practical recommendations and real student stories, College Made Whole will challenge higher education professionals and policy makers, as well as anyone with a stake in the future of US higher education—which is to say, all of us who inhabit this fragile planet.

AI and education - Miao, Fengchun 2021-04-08 Artificial Intelligence (AI) has the potential to address some of the biggest challenges in education today, innovate teaching and learning practices, and ultimately accelerate the progress towards SDG 4. However, these rapid technological developments inevitably bring multiple risks and challenges, which have so far outpaced policy debates and regulatory frameworks. This publication

offers guidance for policy-makers on how best to leverage the opportunities and address the risks, presented by the growing connection between AI and education. It starts with the essentials of AI: definitions, techniques and technologies. It continues with a detailed analysis of the emerging trends and implications of AI for teaching and learning, including how we can ensure the ethical, inclusive and equitable use of AI in education, how education can prepare humans to live and work with AI, and how AI can be applied to enhance education. It finally introduces the challenges of harnessing AI to achieve SDG 4 and offers concrete actionable recommendations for policy-makers to plan policies and programmes for local contexts. [Publisher summary, ed]
The Essential College Professor - Jeffrey L. Buller 2009-12-21 The Essential College Professor is about the "how" and "why" of being a faculty member today. Based on the author's series of highly successful faculty development workshops, each chapter deals concisely with the most important information college professors need at their fingertips when confronted by a particular challenge or faced with an exciting opportunity. Written both as a comprehensive guide to an academic career and as a ready reference to be consulted whenever needed, The Essential College Professor emphasizes proven solutions over untested theories and stresses what faculty members have to know now in order to be successful in their careers. Each chapter is concluded by a short exercise that faculty members can perform to help them, for instance, completely revise a course by restructuring the syllabus and course materials, bring new life to a research project by reframing it as a book proposal or grant application, and so on.
Race on Campus - Julie J. Park 2018 Race on Campus argues that there are pervasive and stubborn "myths" about diversity on college and

university campuses, and that these myths obscure the notable significance and effects that diversity has already had on campus life.--Provided by publisher.

Alternative Universities - David J. Staley 2019-03-26 Pairing a critique tempered to our current moment with an explanation of how change and disruption might contribute to a new "golden agefor higher education, Alternative Universities is an audacious and essential read.

Transformative Innovation - Graham Leicester 2020-06-16 This book offers a first stand-alone practical guide to how to realise transformative potential at scale.

Living with Robots - Paul Dumouchel 2017-11-06 Living with Robots recounts a foundational shift in robotics, from artificial intelligence to artificial empathy, and foreshadows an inflection point in human evolution. As robots engage with people in socially meaningful ways, social robotics probes the nature of the human emotions that social robots are designed to emulate.

The Industries of the Future - Alec Ross 2016-02-02 Leading innovation expert Alec Ross explains what's next for the world, mapping out the advances and stumbling blocks that will emerge in the next ten years—for businesses, governments, and the global community—and how we can navigate them. While Alec Ross was working as Hillary Clinton's Senior Advisor on Innovation, he traveled to forty-one countries. He visited some of the toughest places in the world—from refugee camps of Congo to Syrian war zones. From phone-charger stands in Rwanda to R&D labs in South Korea, Ross has seen what the future holds. Over the past two decades, the Internet has radically changed markets and businesses worldwide. InThe Industries of the Future, Ross shows us what's next, highlighting the best opportunities for progress and explaining why countries thrive or sputter. He examines the specific fields that will most shape our economic future over

the next ten years, including cybercrime and cybersecurity, the commercialization of genomics, the next step for big data, and the coming impact of digital technology on money, payments, and markets. And in each of these realms, Ross addresses the toughest questions: How will we have to adapt to the changing nature of work? Is the prospect of cyberwar sparking the next arms race? How can the world's rising nations hope to match Silicon Valley in creating their own innovation hotspots? Ross blends storytelling and economic analysis to give a vivid and informed perspective on how sweeping global trends are affecting the ways we live, incorporating the insights of leaders ranging from the founders of Google and Twitter to defense experts like David Petraeus. The Industries of the Future takes the intimidating, complex topics that many of us know to be important and boils them down into clear, plain-spoken language. This is an essential work for

understanding how the world works—now and tomorrow—and a must-read for businesspeople, in every sector, from every country.
Robot-Proof - Joseph E. Aoun 2017-08-25 How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze 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, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students for their professional lives when professions themselves are disappearing? In Robot-Proof, Northeastern University president Joseph

Aoun proposes a way 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 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 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 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 smart machines work alongside human professionals. The new literacies of Aoun's humanics are data literacy, technological literacy, and human 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, 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 future is change. Higher education based on the new literacies of humanics can equip students for living and working through change.

Why Humans Matter More Than Ever - MIT Sloan Management Review 2019-08-20 Experts offer strategies for managing people in technocentric times. In these technocentric times, it is more important than ever to manage people well. Companies—employees and managers—may feel overwhelmed by the never-ending disruptions caused by new technologies. This volume in the Digital Future of Management series shows why we should step back, take stock, and seize just a bit more control over how our world is evolving. In Why Humans Matter More Than Ever, management experts from both

industry and academia offer strategies for managing people in our brave new digital world. The contributors explain how new technologies, even the most sophisticated artificial intelligence agents, depend on human collaboration. Companies need to develop rules, principles, and clear ethical guidelines that structure smart object–human interactions. Moreover, in a world filled with technology distractions, we must learn to how to manage our most valuable personal resource: our attention. Leaders need to step up to prepare their organizations for the evolution of work, showing them how to adapt, be more collaborative, and learn new skills. As virtual collaborations take place across professions, locations, and industries, we must adopt the best practices in virtual communication. Finally, going beyond empathy and curiosity, leaders should be self-aware enough to remind themselves of what they may be missing—even the best managers don't know everything. Contributors Lynne Andersson, Robert D. Austin, Catherine Bailey, Kathryn M. Bartol, Daniel Han Ming Chng, Chris DeBrusk, Arati Deo, Kishore Durg, Lauren Eskreis-Winkler, Mallika Fernandes, Ayelet Fishbach, Fritz Fleischmann, Kristen Getchell, Bhaskar Ghosh, Brad Gilbreath, Rob Gleasure, Sergey Gorbatov, Lynda Gratton, N. Sharon Hill, Beth Humberd, Bala Iyer, Tae-Yeol Kim, Frieda Klotz, Angela Lane, Scott Latham, Thomas W. Malone, Daniel McDuff, Alain Pinsonneault, Yasser Rahrovani, Fabrizio Salvador, Amanda Shantz, Antti Tenhiälä, Jan vom Brocke, Eoin Whelan
The Second Machine Age: Work, Progress, and Prosperity in a Time of Brilliant Technologies - Erik Brynjolfsson 2014-01-20
A pair of technology experts describe how humans will have to keep pace with machines in order to become prosperous in the future and identify strategies and policies for business and individuals to use to combine digital processing

power with human ingenuity. *What Our Stories Teach Us* - Linda K. Shadiow 2013-03-07 Praise for What Our Stories Teach Us "In her new book What Our Stories Teach Us, Linda Shadiow invites college faculty to use their personal and professional stories to reflect more critically and meaningfully on their teaching practice. Guiding her readers with a gentle but sure hand, Shadiow painstakingly shows that by systematically examining our educational and pedagogical biographies from a range of perspectives, we gain deeper insight into the pivotal moments that enliven our teaching and sustain our commitment to ongoing professional growth. I expect to be learning from this humane book for many years to come." Stephen Preskill, Distinguished Professor of Civic Engagement and Leadership, Wagner College "Essential reading for every educator who strives to be a better teacher. Shadiow's book offers us a fascinating process to mine our personal teaching and learning stories for the valuable lessons they contain." Jim Sibley, Centre for Instructional Support, University of British Columbia "In this well-conceived and well-written book, Linda Shadiow gently guides faculty along a path toward unearthing the rich stories of their lives that offer deep and enduring insight into their practice." Dannelle D. Stevens, professor and author, Journal Keeping: How to Use Reflective Writing for Learning, Teaching, Professional Insight, and Positive Change
Human Work in the Age of Smart Machines - Jamie Merisotis 2020-10-06 A public policy leader addresses how artificial intelligence is transforming the future of labor—and what we can do to protect the role of workers. As computer technology advances with dizzying speed, human workers face an ever-increasing threat of obsolescence. In Human Work In the Age of Smart Machines, Jamie Merisotis argues that we can—and must—rise to this challenge by

preparing to work alongside smart machines doing that which only humans can: thinking critically, reasoning ethically, interacting interpersonally, and serving others with empathy. The president and CEO of Lumina Foundation, Merisotis offers a roadmap for the large-scale, radical changes we must make in order to find abundant and meaningful work for ourselves in the 21st century. His vision centers on developing our unique capabilities as humans through learning opportunities that deliver fair results and offer a broad range of credentials. By challenging long-held assumptions and expanding our concept of work, Merisotis argues that we can harness the population's potential, encourage a deeper sense of community, and erase a centuries-long system of inequality.

How to Run a College - Brian C. Mitchell 2018-01-15 How can colleges stay relevant in the twenty-first century? Residential colleges are the foundation on which US higher education is based. These institutions possess storied traditions fondly cherished by students, alumni, and faculty. There is no denying, however, that all colleges today struggle with changing consumer preferences, high sticker prices, and aging infrastructure. Technological and pedagogical alternatives—not to mention growing political pressure—present complex challenges. What can colleges and smaller universities do to stay relevant in today's educational and economic climate? In their concise guide, How to Run a College, Brian C. Mitchell and W. Joseph King analyze how colleges operate. Widely experienced as trustees, administrators, and faculty, they understand that colleges must update their practices, monetize their assets, and focus on core educational strategies in order to build strong institutions. Mitchell and King offer a frank yet optimistic vision for how colleges can change without losing their fundamental

strengths. To survive and become sustainable, they must be centers of dynamic learning, as well as economic engines able to power regional, state, and national economies. Rejecting the notion that American colleges are holdovers from a bygone time, How to Run a College shows instead that they are centers of experimentation and innovation that heavily influence higher education not only in the United States but also worldwide.

Paying the Price - Sara Goldrick-Rab 2016-09-01 A "bracing and well-argued" study of America's college debt crisis—"necessary reading for anyone concerned about the fate of American higher education" (Kirkus). College is far too expensive for many people today, and the confusing mix of federal, state, institutional, and private financial aid leaves countless students without the resources they need to pay for it. In Paying the Price, education scholar Sara Goldrick-Rab reveals the devastating effect of these shortfalls. Goldrick-Rab examines a study of 3,000 students who used the support of federal aid and Pell Grants to enroll in public colleges and universities in Wisconsin in 2008. Half the students in the study left college without a degree, while less than 20 percent finished within five years. The cause of their problems, time and again, was lack of money. Unable to afford tuition, books, and living expenses, they worked too many hours at outside jobs, dropped classes, took time off to save money, and even went without adequate food or housing. In many heartbreaking cases, they simply left school—not with a degree, but with crippling debt. Goldrick-Rab combines that data with devastating stories of six individual students, whose struggles make clear the human and financial costs of our convoluted financial aid policies. In the final section of the book, Goldrick-Rab offers a range of possible solutions, from technical improvements

to the financial aid application process, to a bold, public sector–focused "first degree free" program. "Honestly one of the most exciting books I've read, because [Goldrick-Rab has] solutions. It's a manual that I'd recommend to anyone out there, if you're a parent, if you're a teacher, if you're a student."—Trevor Noah, The Daily Show

The Brain That Changes Itself - Norman Doidge 2007-03-15 "Fascinating. Doidge's book is a remarkable and hopeful portrait of the endless adaptability of the human brain."—Oliver Sacks, MD, author of The Man Who Mistook His Wife for a Hat What is neuroplasticity? Is it possible to change your brain? Norman Doidge's inspiring guide to the new brain science explains all of this and more An astonishing new science called neuroplasticity is overthrowing the centuries-old notion that the human brain is immutable, and proving that it is, in fact, possible to change your brain. Psychoanalyst, Norman Doidge, M.D., traveled the country to meet both the brilliant scientists championing neuroplasticity, its healing powers, and the people whose lives they've transformed—people whose mental limitations, brain damage or brain trauma were seen as unalterable. We see a woman born with half a brain that rewired itself to work as a whole, blind people who learn to see, learning disorders cured, IQs raised, aging brains rejuvenated, stroke patients learning to speak, children with cerebral palsy learning to move with more grace, depression and anxiety disorders successfully treated, and lifelong character traits changed. Using these marvelous stories to probe mysteries of the body, emotion, love, sex, culture, and education, Dr. Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential. **Academia Next** - Bryan Alexander 2020-01-14 An unusually multifaceted

approach to American higher education that views institutions as complex organisms, Academia Next offers a fresh perspective on the emerging colleges and universities of today and tomorrow.

Robot-Proof - Joseph Aoun 2017-08-25

How to educate the next generation of college students to invent, to create, and to discover—filling needs that even the most sophisticated robot cannot. Driverless cars are hitting the road, powered by artificial intelligence. Robots can climb stairs, open doors, win Jeopardy, analyze 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, including interpreting medical images, doing legal research, and analyzing data, are within the skill sets of machines. How can higher education prepare students for their professional lives when professions themselves are disappearing? In Robot-Proof, Northeastern University president Joseph Aoun proposes a way 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 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 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 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 smart machines work alongside human professionals. The new literacies of Aoun's humanics are data literacy, technological literacy, and human 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, 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 future is change. Higher education based on the new literacies of humanics can equip students for living and working through change.

The New Education - Cathy N. Davidson 2017-09-05 A leading educational thinker argues that the American university is stuck in the past -- and shows how we can revolutionize it for our era of constant change Our current system of higher education dates to the period from 1865 to 1925. It was in those decades that the nation's new universities created grades and departments, majors and minors, all in an attempt to prepare young people for a world transformed by the telegraph and the Model T. As Cathy N. Davidson argues in The New Education, this

approach to education is wholly unsuited to the era of the gig economy. From the Ivy League to community colleges, she introduces us to innovators who are remaking college for our own time by emphasizing student-centered learning that values creativity in the face of change above all. The New Education ultimately shows how we can teach students not only to survive but to thrive amid the challenges to come.

Competing in the Age of AI - Marco Iansiti 2020-01-07 "a provocative new book" — The New York Times AI-centric organizations exhibit a new operating architecture, redefining how they create, capture, share, and deliver value. Now with a new preface that explores how the coronavirus crisis compelled organizations such as Massachusetts General Hospital, Verizon, and IKEA to transform themselves with remarkable speed, Marco Iansiti and Karim R. Lakhani show how reinventing the firm around data, analytics, and AI removes traditional constraints

on scale, scope, and learning that have restricted business growth for hundreds of years. From Airbnb to Ant Financial, Microsoft to Amazon, research shows how AI-driven processes are vastly more scalable than traditional processes, allow massive scope increase, enabling companies to straddle industry boundaries, and create powerful opportunities for learning—to drive ever more accurate, complex, and sophisticated predictions. When traditional operating constraints are removed, strategy becomes a whole new game, one whose rules and likely outcomes this book will make clear. Iansiti and Lakhani: Present a framework for rethinking business and operating models Explain how "collisions" between AI-driven/digital and traditional/analog firms are reshaping competition, altering the structure of our economy, and forcing traditional companies to rearchitect their operating models Explain the opportunities and risks created by digital firms Describe the new challenges and responsibilities for the leaders of both digital and traditional firms Packed with examples—including many from the most powerful and innovative global, AI-driven competitors—and based on research in hundreds of firms across many sectors, this is your essential guide for rethinking how your firm competes and operates in the era of AI.

Should Robots Replace Teachers? - Neil Selwyn 2019-11-04
Developments in AI, robotics and big data are changing the nature of education. Yet the implications of these technologies for the teaching profession are uncertain. While most educators remain convinced of the need for human teachers, outside the profession there is growing anticipation of a technological reinvention of the ways in which teaching and learning take place. Through an examination of technological developments such as autonomous classroom robots,

intelligent tutoring systems, learning analytics and automated decision-making, Neil Selwyn highlights the need for nuanced discussions around the capacity of AI to replicate the social, emotional and cognitive qualities of human teachers. He pushes conversations about AI and education into the realm of values, judgements and politics, ultimately arguing that the integration of any technology into society must be presented as a choice. Should Robots Replace Teachers? is a must-read for anyone interested in the future of education and work in our increasingly automated times.

Robot Rights - David J. Gunkel 2018-11-13
A provocative attempt to think about what was previously considered unthinkable: a serious philosophical case for the rights of robots. We are in the midst of a robot invasion, as devices of different configurations and capabilities slowly but surely come to take up increasingly important positions in everyday social reality—self-driving vehicles, recommendation algorithms, machine learning decision making systems, and social robots of various forms and functions. Although considerable attention has already been devoted to the subject of robots and responsibility, the question concerning the social status of these artifacts has been largely overlooked. In this book, David Gunkel offers a provocative attempt to think about what has been previously regarded as unthinkable: whether and to what extent robots and other technological artifacts of our own making can and should have any claim to moral and legal standing. In his analysis, Gunkel invokes the philosophical distinction (developed by David Hume) between "is" and "ought" in order to evaluate and analyze the different arguments regarding the question of robot rights. In the course of his examination, Gunkel finds that none of the existing positions or proposals hold up under scrutiny. In response to this, he

then offers an innovative alternative proposal that effectively flips the script on the is/ought problem by introducing another, altogether different way to conceptualize the social situation of robots and the opportunities and challenges they present to existing moral and legal systems.

Higher Education in the Era of the Fourth Industrial Revolution - Nancy W. Gleason 2018-06-21 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. Cognitive Computing for Human-Robot Interaction - Mamta Mittal 2021-08-13 Cognitive Computing for Human-Robot Interaction: Principles and Practices explores the efforts that should ultimately enable society to take advantage of the often-heralded potential of robots to

provide economical and sustainable computing applications. This book discusses each of these applications, presents working implementations, and combines coherent and original deliberative architecture for human–robot interactions (HRI). Supported by experimental results, it shows how explicit knowledge management promises to be instrumental in building richer and more natural HRI, by pushing for pervasive, human-level semantics within the robot's deliberative system for sustainable computing applications. This book will be of special interest to academics, postgraduate students, and researchers working in the area of artificial intelligence and machine learning. Key features:

Introduces several new contributions to the representation and management of humans in autonomous robotic systems; Explores the potential of cognitive computing, robots, and HRI to generate a deeper understanding and to provide a better contribution from robots to society; Engages with the potential repercussions of cognitive computing and HRI in the real world. Introduces several new contributions to the representation and management of humans in an autonomous robotic system Explores cognitive computing, robots and HRI, presenting a more in-depth understanding to make robots better for society Gives a challenging approach to those several repercussions of cognitive computing and HRI in the actual global scenario