

Read Online The Social Construction Of Expertise The English Civil Service And Its Influence 1919 1939 Pitt Series In Policy And Institutional Studies Pdf For Free

The Psychology of Expertise Jul 17 2021 Experts, who were the sole active dispensers of certain kinds of knowledge in the days before AI, have now often assumed a rather passive role. They relay their knowledge to various novices, knowledge engineers, experimental psychologists or cognitivists - or other experts! - involved in the development and understanding of expert systems. This book achieves a perfect marriage between experimentalists and theoreticians who deal with expertise. It tries to establish the benefits to society of an advanced technology for representing and disseminating the knowledge and skills of the best corporate managers, the most seasoned pilots, and the most renowned medical diagnosticians. This book interests psychologists as well as all those out in the trenches developing expert systems, and everyone pondering the nature of expertise and the question of how it can be studied scientifically. Its scope, the pivotal concepts which it elucidates and brilliantly summarizes and appraises in the final chapter, as well as the references it includes, make this book a landmark in the field.

The Crisis of Expertise Dec 02 2022 In recent political debates there has been a significant change in the valence of the word “experts” from a superlative to a near pejorative, typically accompanied by a recitation of experts’ many failures and misdeeds. In topics as varied as Brexit, climate change and vaccinations there is a palpable mistrust of experts and a tendency to dismiss their advice. Are we witnessing, therefore, the “death of expertise,” or is the handwringing about an “assault on science” merely the hysterical reaction of threatened elites? In this new book, Gil Eyal argues that what needs to be explained is not a one-sided “mistrust of experts” but the two-headed pushmi-pullyu of unprecedented reliance on science and expertise, on the one hand, coupled with increased suspicion, skepticism and dismissal of scientific findings, expert opinion or even whole branches of investigation, on the other. The current mistrust of experts, Eyal argues, is best understood as one more spiral in an on-going, recursive crisis of legitimacy. The “scientization of politics,” of which critics warned in the 1960s, has brought about a politicization of science, specifically of regulatory and policy science, and the two processes reinforce one another in an unstable, crisis-prone mixture. Eyal demonstrates that the strategies designed to respond to the crisis - from an increased emphasis on inclusion of laypeople and stakeholders in scientific research and regulatory decision-making to approaches seeking to generate trust by relying on

objective procedures such as randomized controlled trials (RCTs) – end up exacerbating the crisis, while undermining and contradicting one another. This timely book will be of great interest to students and scholars in the social sciences and to anyone concerned about the political uses of, and attacks on, scientific knowledge and expertise.

Peak Sep 18 2021 “This book is a breakthrough, a lyrical, powerful, science-based narrative that actually shows us how to get better (much better) at the things we care about.”—Seth Godin, author of Linchpin “Anyone who wants to get better at anything should read [Peak]. Rest assured that the book is not mere theory. Ericsson’s research focuses on the real world, and he explains in detail, with examples, how all of us can apply the principles of great performance in our work or in any other part of our lives.”—Fortune Anders Ericsson has made a career studying chess champions, violin virtuosos, star athletes, and memory mavens. Peak distills three decades of myth-shattering research into a powerful learning strategy that is fundamentally different from the way people traditionally think about acquiring new abilities. Whether you want to stand out at work, improve your athletic or musical performance, or help your child achieve academic goals, Ericsson’s revolutionary methods will show you how to improve at almost any skill that matters to you. “The science of excellence can be divided into two eras: before Ericsson and after Ericsson. His groundbreaking work, captured in this brilliantly useful book, provides us with a blueprint for achieving the most important and life-changing work possible: to become a little bit better each day.”—Dan Coyle, author of The Talent Code “Ericsson’s research has revolutionized how we think about human achievement. If everyone would take the lessons of this book to heart, it could truly change the world.”—Joshua Foer, author of Moonwalking with Einstein

***The Expertise Economy* Jan 23 2022 The world of work is going through a large-scale transition with digitization, automation and acceleration. Critical skills and expertise are imperative for companies and their employees to succeed in the future, and the most forward-thinking companies are being proactive in adapting to the shift in the workforce. Kelly Palmer, Silicon Valley thought-leader from LinkedIn, Degreed, and Yahoo, and David Blake, co-founder of Ed-tech pioneer Degreed, share their experiences and describe how some of the smartest companies in the world are making learning and expertise a major competitive advantage. The authors provide the latest scientific research on how people really learn and concrete examples from companies in both Silicon Valley and worldwide who are driving the conversation about how to create experts and align learning innovation with business strategy. It includes interviews with people from top companies like Google, LinkedIn, Airbnb, Unilever, NASA, and MasterCard; thought leaders in learning and education like Sal Khan and Todd Rose; as well as Thinkers50 list-**

makers Clayton Christensen, Daniel Pink and Whitney Johnson. *The Expertise Economy* dares you to let go of outdated and traditional ways of closing the skills gap, and challenges CEOs and business leaders to embrace the urgency of re-skilling and upskilling the workforce.

The Areas of My Expertise Nov 20 2021 In the great tradition of the American almanac, *The Areas of My Expertise* is a brilliant and hilarious compendium of handy reference tables, fascinating trivia, and sage wisdom on all topics large and small. Although bestsellers such as *Poor Richard's Almanack* and *The Book of Lists* were certainly valuable, they also were largely true. Here is a different kind of handy desk reference, one in which all of the historical oddities and amazing true facts are sifted through the singular, illuminating imagination of John Hodgman—which is the nice way of saying: He made it all up. John Hodgman brings his considerable expertise to bear in answering all of the questions book buyers have been asking: -What are the mottoes of the 51 United States? **THE ANSWER IS PROVIDED** -Who were the U.S. presidents who had hooks for hands? **THE ANSWER IS PROVIDED** -What role does the Yale secret society “Skull and Bones” play in the secret world government? **THERE IS NO SECRET WORLD GOVERNMENT** -What was the menu at the first Thanksgiving, and did it include eels? Technically, that is two questions, but do not apologize, for John Hodgman shall answer them both . . . **LATER.** -Aside from a compendium of fake trivia, what is the best kind of book to write? **A SIMPLE TABLE OF THE 55 MOST DRAMATIC LITERARY SITUATIONS PROVIDES THE ANSWER**, and John Hodgman is the author of that table. Imagine if *The Book of Lists* had been rewritten by Peter Cook and Jorge Luis Borges under the pseudonym of “John Hodgman” and then renamed *The Areas of My Expertise*, and you will only begin to have a sense of the dizzying, uproarious, sublimely weird, and strangely wise journey that is contained within this book (along with all the pages and words). Perfect for anyone who thirsts for knowledge, and especially for collectors of books of fake trivia, *The Areas of My Expertise* offers through absurdity a better understanding of the world we share—and recognizes that while the truth may be stranger than fiction, it is never as strange as lies . . . or as true. Look out for John Hodgman's latest book, *Vacationland*, available from Viking in Fall 2017.

The Oxford Handbook of Expertise Mar 13 2021 The study of expertise weaves its way through various communities of practice, across disciplines, and over millennia. To date, the study of expertise has been primarily concerned with how human beings perform at a superior level in complex environments and sociotechnical systems, and at the highest levels of proficiency. However, more recent research has continued the search for better descriptions, and causal mechanisms that explain the complexities of expertise in context, with a view to translating this understanding

into useful predictions and interventions capable of improving the performance of human systems as efficiently as possible. The Oxford Handbook of Expertise provides a comprehensive picture of the field of Expertise Studies. It offers both traditional and contemporary perspectives, and importantly, a multidiscipline-multimethod view of the science and engineering research on expertise. The book presents different perspectives, theories, and methods of conducting expertise research, all of which have had an impact in helping us better understand expertise across a broad range of domains. The Handbook also describes how researchers and practitioners have addressed practical problems and societal challenges. Throughout, the authors have sought to demonstrate the heterogeneity of approaches and conceptions of expertise, to place current views of expertise in context, to show how these views can be used to address current issues, and to examine ways to advance the study of expertise. The Oxford Handbook of Expertise is an essential resource both to those wanting to gain an up-to-date knowledge of the science of expertise and those wishing to study experts.

Surpassing Ourselves Mar 01 2020 Expertise arouses fears of a society ruled by an elite of specialists in white coats, or else it arouses derision because of the ineffectual bumbling of the so-called 'experts.' In *Surpassing Ourselves*, Bereiter and Scardamalia demonstrate that these stereotypes of expertise are false. Drawing upon the latest research in cognitive psychology, they show that expertise is something other than training, experience, knowledge, or formal qualifications. Many individuals acquire all these without ever becoming experts, while some beginners, even schoolchildren, already approach problems in an 'expertlike' fashion. Expertise is a process of progressive problem-solving in which people continuously rethink and redefine their tasks. A future 'expert society' will not be a heaven in which all problems have disappeared, but a realistic utopia in which endless problem-solving will be a highly-valued part of life. Progressive problem solvers stay healthier, live longer, and experience the intense mental pleasure known as 'flow'. They repeatedly go beyond their well-learned procedures, avoid getting into ruts, and surpass themselves by reformulating problems at new and more complex levels. They are able to transform insoluble predicaments into soluble problems, to the benefit of everyone. Yet many of our present institutions, especially the schools, penalize expertise instead of cultivating it.

How People Learn May 15 2021 First released in the Spring of 1999, *How People Learn* has been expanded to show how the theories and insights from the original book can translate into actions and practice, now making a real connection between classroom activities and learning behavior. This edition includes far-reaching suggestions for research that could increase the impact that classroom teaching has on actual learning. Like the original edition, this book offers exciting new research

about the mind and the brain that provides answers to a number of compelling questions. When do infants begin to learn? How do experts learn and how is this different from non-experts? What can teachers and schools do-with curricula, classroom settings, and teaching methods--to help children learn most effectively? New evidence from many branches of science has significantly added to our understanding of what it means to know, from the neural processes that occur during learning to the influence of culture on what people see and absorb. How People Learn examines these findings and their implications for what we teach, how we teach it, and how we assess what our children learn. The book uses exemplary teaching to illustrate how approaches based on what we now know result in in-depth learning. This new knowledge calls into question concepts and practices firmly entrenched in our current education system. Topics include: How learning actually changes the physical structure of the brain. How existing knowledge affects what people notice and how they learn. What the thought processes of experts tell us about how to teach. The amazing learning potential of infants. The relationship of classroom learning and everyday settings of community and workplace. Learning needs and opportunities for teachers. A realistic look at the role of technology in education.

The Cambridge Handbook of Expertise and Expert Performance Sep 30 2022 This book was the first handbook where the world's foremost 'experts on expertise' reviewed our scientific knowledge on expertise and expert performance and how experts may differ from non-experts in terms of their development, training, reasoning, knowledge, social support, and innate talent. Methods are described for the study of experts' knowledge and their performance of representative tasks from their domain of expertise. The development of expertise is also studied by retrospective interviews and the daily lives of experts are studied with diaries. In 15 major domains of expertise, the leading researchers summarize our knowledge on the structure and acquisition of expert skill and knowledge and discuss future prospects. General issues that cut across most domains are reviewed in chapters on various aspects of expertise such as general and practical intelligence, differences in brain activity, self-regulated learning, deliberate practice, aging, knowledge management, and creativity.

Democratization of Expertise? Feb 09 2021 'Scientific advice to politics', the 'nature of expertise', and the 'relation between experts, policy makers, and the public' are variations of a topic that currently attracts the attention of social scientists, philosophers of science as well as practitioners in the public sphere and the media. This renewed interest in a persistent theme is initiated by the call for a democratization of expertise that has become the order of the day in the legitimation of research funding. The new significance of 'participation' and 'accountability'

has motivated scholars to take a new look at the science – politics interface and to probe questions such as "What is new in the arrangement of scientific expertise and political decision-making?", "How can reliable knowledge be made useful for politics and society at large, and how can epistemically and ethically sound decisions be achieved without losing democratic legitimacy?", "How can the objective of democratization of expertise be achieved without compromising the quality and reliability of knowledge?" Scientific knowledge and the 'experts' that represent it no longer command the unquestioned authority and public trust that was once bestowed upon them, and yet, policy makers are more dependent on them than ever before. This collection of essays explores the relations between science and politics with the instruments of the social studies of science, thereby providing new insights into their re-alignment under a new régime of governance.

Rethinking Expertise Feb 21 2022 What does it mean to be an expert? In **Rethinking Expertise**, Harry Collins and Robert Evans offer a radical new perspective on the role of expertise in the practice of science and the public evaluation of technology. Collins and Evans present a Periodic Table of Expertises based on the idea of tacit knowledge—knowledge that we have but cannot explain. They then look at how some expertises are used to judge others, how laypeople judge between experts, and how credentials are used to evaluate them. Throughout, Collins and Evans ask an important question: how can the public make use of science and technology before there is consensus in the scientific community? This book has wide implications for public policy and for those who seek to understand science and benefit from it. "Starts to lay the groundwork for solving a critical problem—how to restore the force of technical scientific information in public controversies, without importing disguised political agendas."—Nature "A rich and detailed 'periodic table' of expertise . . . full of case studies, anecdotes and intriguing experiments."—Times Higher Education Supplement (UK)

Expertise at Work Jan 29 2020 Expertise, which combines knowledge, years of experience in one domain, problem-solving skills, and behavioral traits, is a valuable resource for organizations. To understand the diverse picture of expertise in the workplace, this book offers scholars and scholar-practitioners a comprehensive assessment of the development of human expertise in organizations. Using contemporary perspectives across a broad range of domains, contributors offer readers various professional perspectives including veterans, education, sports, and information technology. The book also describes how researchers and practitioners can address practical problems related to the development, redevelopment, and sustainability of expertise. Finally, the book puts specific emphasis on the emerging trends in the study and practice of expertise in organizations, including the use of artificial intelligence.

***Expertise in Regulation and Law* Jun 15 2021** This collection of essays examines the multi-faceted roles of experts and expertise in and around contemporary legal and regulatory cultures. The essays illustrate the complexity intrinsic to the production and use of expert knowledge, particularly during transition from specialist communities to other domains such as policy formulation, regulatory standard setting and litigation. Several themes pervade the collection. These include the need to recognize that: expert knowledge and opinion is often complex, controversial and contested; there are no simple criteria for resolving disagreements between experts; appeals to 'objectivity' and 'impartiality' tend to be rhetorical rather than analytical; contests in expertise are frequently episodes in larger campaigns; there are many different models of expertise and knowledge; processes designed to deal with expert knowledge are unavoidably political; questions around who is an expert and what should count as expertise are not always self-evident; and the evidence rarely 'speaks for itself'.

The Politics of Expertise Jun 03 2020 A groundbreaking analysis that sheds new light on global governance

***The Impact of Individual Expertise and Public Information on Group Decision-Making* Oct 08 2020** In this open-access-book the author concludes that expertise could be the key factor for global and interconnected problems. Experimental results have shown that expertise was a stronger predictor than public information regarding change in behavior and strategy adaptation. Identifying non-routine problem-solving experts by efficient online assessments could lead to less volatile system performance, from which all decision-makers could potentially profit.

Design Expertise Dec 30 2019 Design Expertise explores what it takes to become an expert designer. It examines the perception of expertise in design and asks what knowledge, skills, attributes and experiences are necessary in order to design well. Bryan Lawson and Kees Dorst develop a new model of design expertise and show how design expertise can be developed. This book is designed for all students, teachers, practitioners and researchers in architecture and design. To enable all readers to explore the book in a flexible way, the authors' words are always found on the left hand page. On the right are diagrams, illustrations and the voices of designers, teachers and students and occasionally others too. 'Design Expertise' provides a provocative new reading on the nature of design and creative thought.

The Science of Expertise Nov 01 2022 Offering the broadest review of psychological perspectives on human expertise to date, this volume covers behavioral, computational, neural, and genetic approaches to understanding complex skill. The chapters show how performance in music, the arts, sports, games, medicine, and other domains reflects basic traits such as personality and intelligence, as well as knowledge and skills acquired through training. In doing so, this book moves the

field of expertise beyond the duality of "nature vs. nurture" toward an integrative understanding of complex skill. This book is an invaluable resource for researchers and students interested in expertise, and for professionals seeking current reviews of psychological research on expertise.

A History and Philosophy of Expertise Nov 08 2020 In this comprehensive tour of the long history and philosophy of expertise, from ancient Greece to the 20th century, Jamie Carlin Watson tackles the question of expertise and why we can be skeptical of what experts say, making a valuable contribution to contemporary philosophical debates on authority, testimony, disagreement and trust. His review sketches out the ancient origins of the concept, discussing its early association with cunning, skill and authority and covering the sort of training that ancient thinkers believed was required for expertise. Watson looks at the evolution of the expert in the middle ages into a type of "genius" or "innate talent", moving to the role of psychological research in 16th-century Germany, the influence of Darwin, the impact of behaviorism and its interest to computer scientists, and its transformation into the largely cognitive concept psychologists study today.

The Contentious Politics of Expertise Jan 11 2021 Based on mixed-methods research and ethnographic fieldwork at various sites in Italy, this book examines the relationship between expertise and activism in grassroots environmentalism. Presenting interviews with citizens, activists and experts, it considers activism surrounding infrastructure in urban areas, in connection with water management, transport, tourism and waste disposal. Through comparisons between different political environments, the author analyses the ways in which citizens, political activists and technical experts participate in using expertise, shedding light on the effects of this on the structure and composition of social movements, as well as the implications for the mechanisms of participation and the formation of alliances. Bridging the sociology of expertise and contentious politics, this study of the relationship between contentious expertise and democratic accountability shows how conflict transforms, rather than inhibits, expertise production into a 'contentious politics by other means'. As such, it will appeal to social scientists with interests in social movements, environmental sociology, science and technology studies, and the sociology of knowledge.

The Cambridge Handbook of Expertise and Expert Performance Apr 25 2022 In this book, some of the world's foremost 'experts on expertise' provide scientific knowledge on expertise and expert performance.

Post-Truth Aug 06 2020 Welcome to the Post-Truth era—a time in which the art of the lie is shaking the very foundations of democracy and the world as we know it. The Brexit vote; Donald Trump's victory; the rejection of climate change science; the vilification of immigrants; all have been based on the power to evoke feelings

and not facts. So what does it all mean and how can we champion truth in a time of lies and ‘alternative facts’? In this eye-opening and timely book, *Post-Truth* is distinguished from a long tradition of political lies, exaggeration and spin. What is new is not the mendacity of politicians but the public’s response to it and the ability of new technologies and social media to manipulate, polarise and entrench opinion. Where trust has evaporated, conspiracy theories thrive, the authority of the media wilt and emotions matter more than facts. Now, one of the UK’s most respected political journalists, Matthew d’Ancona investigates how we got here, why quiet resignation is not an option and how we can and must fight back.

On Expertise Sep 26 2019 There is a deep distrust of experts in America today. Influenced by populist politics, many question or downright ignore the recommendations of scientists, scholars, and others with specialized training. It appears that expertise, a critical component of democratic life, no longer appeals to wide swaths of the body politic. *On Expertise* is a robust defense of the expert class. Ashley Rose Mehlenbacher examines modern and ancient theories of expertise through the lens of rhetoric and interviews some forty professionals, revealing how they understand their own expertise and how they came to be known as “experts.” She shows that expertise requires not only knowledge and skill but also, crucially, an acknowledgment by others—both specialists and laypeople—that one is a credible authority. At its heart, expertise is a rhetorical construct, and to be persuasive, experts must have the ability to apply their knowledge and skills rightly—in the right way, at the right time, to achieve the right end. Ultimately, Mehlenbacher argues that experts apply their technical knowledge effectively and win others’ trust through acting prudently and cultivating goodwill. Timely, practical, and sophisticated, *On Expertise* provides vital scaffolding for our understanding of expertise and its real-world application. This book is essential for beginning the work of rehabilitating the expert class amid a politics of extreme populism and anti-intellectualism.

Experts Mar 25 2022 In this book, Stehr and Grundmann outline the theoretical significance and practical importance of the growing stratum of experts, counsellors and advisors in contemporary society, and claim that the growing spectrum of knowledge-based occupations has led to the pluralisation of expertise. As decision makers in organizations and private citizens, for various reasons, increasingly seek advice from experts, the authors examine the nature of expert activity, and suggest that the role of experts needs to be distinguished from other roles such as professionals, scientists, or intellectuals. Experts, they argue, perform knowledge based activities that mediate between the context of knowledge creation and application. Existing approaches tend to restrict the role of the expert to scientists, or to conflate the roles of professionals with experts. In avoiding such restrictions,

this book sets out a framework to understanding the growing role of expertise in a better way. Experts provides thought-provoking discussion that will be of interest to postgraduate students and academics working within the fields of social theory, knowledge, and consumption.

***Expertise in Context* May 03 2020 Computerized "expert systems" are among the best-known applications of artificial intelligence. But what is expertise? The nature of knowledge and expertise, and their relation to context, is the focus of active discussion and controversy among psychologists, philosophers, computer scientists, and other cognitive scientists. The questions reach to the very foundations of cognitive theory. The twenty-three original essay in this volume discuss the essential nature of expert knowledge, as well as such questions as how "expertise" differs from mere "knowledge," the relation between the individual and group processes involved in knowledge in general and expertise in particular, the social and other contexts of expertise, how expertise can be assessed, and the relation between human and computer expertise. Contributors : N. M. Agnew, D. Bertram, S. Bringsjord, N. Charness, W. Clancey, H. M. Collins, T. M. Converse, R. L. Coulson, D. DuBois, K. A. Ericsson, P. J. Feltovich, K. M. Ford, N. D. Geddes, K. J. Hammond, C. C. Hayes, P. J. Hayes, H. Hexmoor, C. T. Kulik, H. E. Kyburg, M. LaFrance, F. J. Lerch, G. F. Luger, M. Miller, M. Minsky, K. O'Hara, A. L. Patalano, V. L. Patel, D. Perlis, M. J. Prietula, M. F. Ramoni, A. T. Rappaport, C. M. Seifert, N. Shadbolt, V. L. Shalin, S. C. Shapiro, R. J. Spiro, E. W. Stein, C. R. Stern, R. J. Sternberg, M. A. Szczepkowski, C. M. Zeitz**

The Philosophy of Expertise May 27 2022 From the use of expert testimony in the courtroom to the advice we rely on to solve key economic, political, and social problems, expertise is an essential part of our decision-making process. However, the extent to which experts can be trusted is a subject of persistent and contentious debate. The Philosophy of Expertise is the first collection to explore the fundamental philosophical issues surrounding these authorities and their expert knowledge. Part 1 considers the problems surrounding the issue of trust and deference; part 2 launches a phenomenological clarification of expertise that pinpoints the universal structures embodied in cognition and affect; and part 3 examines the consequences of the social and technical externalization of expertise. Contributors including Edward Said, Alvin Goldman, Peter Singer, Hubert Dreyfus, Julia Annas, Harry Collins, and Don Ihde draw on a number of intellectual approaches to explore the justification of expert authority, the potentially dangerous role of expertise in a liberal democratic society, how laypeople can critique experts, and the social and ideological character of expert advice. The contributors also discuss the reasoning process of judges and juries, the ancient Greek view of moral conduct, and the incorporation of experts into governmental bureaucracy. By honestly tackling the

legitimacy and consistency of various positions, this volume sheds much-needed light on the theoretical dimensions of a controversial and pervasive practice.

Contributors: Alvin I. Goldman, Don Ihde, Edward Said, Evan Selinger and John Mix, Evan Selinger and Robert P. Crease, H. M. Collins and Robert Evans, Hélène Mialet, Hubert Dreyfus, John Hardwig, Julia Annas, Paul Feyerabend, Peter Singer, Scott Brewer, Steve Fuller, Steven Turner

The Accountability of Expertise Apr 01 2020 Based on in-depth studies of the relationship between expertise and democracy in Europe, this book presents a new approach to how the un-elected can be made safe for democracy. It addresses the challenge of reconciling modern governments' need for knowledge with the demand for democratic legitimacy. Knowledge-based decision-making is indispensable to modern democracies. This book establishes a public reason model of legitimacy and clarifies the conditions under which unelected bodies can be deemed legitimate as they are called upon to handle pandemics, financial crises, climate change and migration flows. Expert bodies are seeking neither re-election nor popularity, they can speak truth to power as well as to the citizenry at large. They are unelected, yet they wield power. How could they possibly be legitimate? This book is of key interest to scholars and students of democracy, governance, and more broadly to political and administrative science as well as the Science Technology Studies (STS).

Governing through Expertise Sep 06 2020 Littoz-Monnet provides a fresh analysis of the enmeshment of expert knowledge with politics in global governance, through a unique investigation of bioethical expertise, an intriguing form of 'expert knowledge' which claims authority in the ethical analysis of issues that arise in relation to biomedicine, the life sciences and new fields of technological innovation. She makes the case that the mobilisation of ethics experts does not always arise from a motivation to rationalise governance. Instead, mobilising ethics experts - who are endowed with a unique double-edged authority, both 'democratic' and 'epistemic' - can help policy-makers manoeuvre policy conflicts on scientific and technological innovations and make their pro-science and innovation agendas possible. Bioethical expertise is indeed shaped in a political and iterative space between experts and those who do policy. The book reveals the mechanisms through which certain global governance narratives, as well as the types of expertise they rely on, remain stable even when they are contested.

Itineraries of Expertise Apr 13 2021 Itineraries of Expertise contends that experts and expertise played fundamental roles in the Latin American Cold War. While traditional Cold War histories of the region have examined diplomatic, intelligence, and military operations and more recent studies have probed the cultural dimensions of the conflict, the experts who constitute the focus of this volume escaped these categories. Although they often portrayed themselves as removed

from politics, their work contributed to the key geopolitical agendas of the day. The paths traveled by the experts in this volume not only traversed Latin America and connected Latin America to the Global North, they also stretch traditional chronologies of the Latin American Cold War to show how local experts in the early twentieth century laid the foundation for post–World War II development projects, and how Cold War knowledge of science, technology, and the environment continues to impact our world today. These essays unite environmental history and the history of science and technology to argue for the importance of expertise in the Latin American Cold War.

The Neuroscience of Expertise Dec 10 2020 The book examines the ways in which the brain accommodates the incredible feats of experts.

The Death of Expertise Jan 03 2023 Technology and increasing levels of education have exposed people to more information than ever before. These societal gains, however, have also helped fuel a surge in narcissistic and misguided intellectual egalitarianism that has crippled informed debates on any number of issues. Today, everyone knows everything: with only a quick trip through WebMD or Wikipedia, average citizens believe themselves to be on an equal intellectual footing with doctors and diplomats. All voices, even the most ridiculous, demand to be taken with equal seriousness, and any claim to the contrary is dismissed as undemocratic elitism. Tom Nichols' *The Death of Expertise* shows how this rejection of experts has occurred: the openness of the internet, the emergence of a customer satisfaction model in higher education, and the transformation of the news industry into a 24-hour entertainment machine, among other reasons. Paradoxically, the increasingly democratic dissemination of information, rather than producing an educated public, has instead created an army of ill-informed and angry citizens who denounce intellectual achievement. When ordinary citizens believe that no one knows more than anyone else, democratic institutions themselves are in danger of falling either to populism or to technocracy or, in the worst case, a combination of both. An update to the 2017 breakout hit, the paperback edition of *The Death of Expertise* provides a new foreword to cover the alarming exacerbation of these trends in the aftermath of Donald Trump's election. Judging from events on the ground since it first published, *The Death of Expertise* issues a warning about the stability and survival of modern democracy in the Information Age that is even more important today.

The Nature of Expertise Aug 18 2021 Due largely to developments made in artificial intelligence and cognitive psychology during the past two decades, expertise has become an important subject for scholarly investigations. *The Nature of Expertise* displays the variety of domains and human activities to which the study of expertise has been applied, and reflects growing attention on learning and the acquisition of

expertise. Applying approaches influenced by such disciplines as cognitive psychology, artificial intelligence, and cognitive science, the contributors discuss those conditions that enhance and those that limit the development of high levels of cognitive skill.

Being an Expert Professional Practitioner Jul 05 2020 Professionals deal with complex problems which require working with the expertise of others, but being able to collaborate resourcefully with others is an additional form of expertise. This book draws on a series of research studies to explain what is involved in the new concept of working relationally across practices. It demonstrates how spending time building common knowledge between different professions aids collaboration. The core concept is relational agency, which can arise between practitioners who work together on a complex task: whether reconfiguring the trajectory of a vulnerable child or developing a piece of computer software. Common knowledge, which captures the motives and values of each profession, is essential for the exercise of relational agency and contributing to and working with the common knowledge of what matters for each profession is a new form of relational expertise. The book is based on a wide body of field research including the author's own. It tackles how to research expert practices using Vygotskian perspectives, and demonstrates how Cultural Historical and Activity Theory approaches contribute to how we understand learning, practices and organisations.

Expertise in Mathematics Instruction Nov 28 2019 Accumulated research findings in past decades have led to the common knowledge that teachers' professional knowledge is essential to effective classroom instruction. However, there is still very limited understanding about the nature of teachers' expertise in mathematics instruction. *Expertise in Mathematics Instruction* addresses this need clearly and concisely. In particular, it examines all aspects of emphases employed to characterize the nature of expertise in mathematics instruction from both researchers' and practitioners' perspectives. Moreover, with research contributions from both the East and the West, this book also examines ideas pertinent to fostering and demonstrating expertise in mathematics instruction within different system contexts. This book will raise questions and issues for mathematics education researchers to guide a critical examination of what can be learned from other education systems. *Expertise in Mathematics Instruction* builds on its theoretical and methodological approach with contributions from international experts in the field. Additionally, a review of related research from mathematics education serves as an introduction to the new research in both Eastern and Western settings. Concluding this resource is a reflection on the benefits of this international collaboration and possible research directions for the future. The final chapter cohesively joins traditional and current research for action. Expertise in

Mathematics Instruction is of interest to researchers in mathematics education, mathematics teacher educators, and mathematics educators.

***Expertise and Decision Support* Aug 25 2019** This volume brings together a range of contributors from Europe and North America. All contributions were especially commissioned with a view to elucidating a major multidisciplinary topic that is of concern to both academics and practitioners. The focus of the book is on expert judgment and its interaction with decision support systems. In the first part, the nature of expertise is discussed and characteristics of expert judges are described. Issues concerned with the evaluation of judgment in the psychological laboratory are assessed and contrasted with studies of expert judgment in ecologically valid contexts. In addition, issues concerned with eliciting and validating expert knowledge are discussed. Demonstrations of good judgmental performance are linked to situational factors such as feedback cycles, and measurement of coherence and reliability in expert judgment is introduced as a baseline determinant of good judgmental performance. Issues concerned with the representation of elicited expert knowledge in knowledge-based systems are evaluated and methods are described that have been shown to produce improvements in judgmental performance. Behavioral and mathematical ways of combining judgments from multiple experts are compared and contrasted. Finally, the issues developed in the preceding contributions are focused on current controversies in decision support. Expert judgment is utilized as a major input into decision analysis, forecasting with statistical models, and expert systems.

The Politics of Expertise Aug 30 2022 This book collects case studies and theoretical papers on expertise, focusing on four major themes: legitimation, the aggregation of knowledge, the distribution of knowledge and the distribution of power. It focuses on the institutional means by which the distribution of knowledge and the distribution of power are connected, and how the problems of aggregating knowledge and legitimating it are solved by these structures. The radical novelty of this approach is that it places the traditional discussion of expertise in democracy into a much larger framework of knowledge and power relations, and in addition begins to raise the questions of epistemology that a serious account of these problems requires.

Development of Professional Expertise Dec 22 2021 Professionals such as medical doctors, aeroplane pilots, lawyers, and technical specialists find that some of their peers have reached high levels of achievement that are difficult to measure objectively. In order to understand to what extent it is possible to learn from these expert performers for the purpose of helping others improve their performance, we first need to reproduce and measure this performance. This book is designed to provide the first comprehensive overview of research on the acquisition and training

of professional performance as measured by objective methods rather than by subjective ratings by supervisors. In this collection of articles, the world's foremost experts discuss methods for assessing the experts' knowledge and review our knowledge on how we can measure professional performance and design training environments that permit beginning and experienced professionals to develop and maintain their high levels of performance, using examples from a wide range of professional domains.

The Social Psychology of Expertise Jul 29 2022 The Social Psychology of Expertise offers an integrative perspective to the analysis of experts and expertise in organizations, social roles, management, etc. It is the first book to link the psychology of expertise to sociology, particularly the sociology of professions. By examining the converging elements of both approaches and investigating the conditions of interactions with all types of experts, The Social Psychology of Expertise makes it possible to understand the market form of expert services. This book: *introduces the expert role approach--a new and encompassing view on the role of experts and how to use the experts' expertise in organizations, financial markets, and environmental issues; *enhances a mutual understanding between the psychology of expertise and the sociology of professions (for students, as well as scholars); *provides a helpful understanding of dealing with experts in the context of organizational behavior; *shows how we can make proper use of the experts' expertise in management and planning; *demonstrates how the role of experts influences volatility in financial markets; and *defines the limits of human expertise in predicting climate change.

Politics and Expertise Oct 20 2021 A new model for the relationship between science and democracy that spans policymaking, the funding and conduct of research, and our approach to new technologies Our ability to act on some of the most pressing issues of our time, from pandemics and climate change to artificial intelligence and nuclear weapons, depends on knowledge provided by scientists and other experts. Meanwhile, contemporary political life is increasingly characterized by problematic responses to expertise, with denials of science on the one hand and complaints about the ignorance of the citizenry on the other. Politics and Expertise offers a new model for the relationship between science and democracy, rooted in the ways in which scientific knowledge and the political context of its use are imperfect. Zeynep Pamuk starts from the fact that science is uncertain, incomplete, and contested, and shows how scientists' judgments about what is significant and useful shape the agenda and framing of political decisions. The challenge, Pamuk argues, is to ensure that democracies can expose and contest the assumptions and omissions of scientists, instead of choosing between wholesale acceptance or rejection of expertise. To this end, she argues for institutions that support scientific

dissent, proposes an adversarial “science court” to facilitate the public scrutiny of science, reimagines structures for funding scientific research, and provocatively suggests restricting research into dangerous new technologies. Through rigorous philosophical analysis and fascinating examples, *Politics and Expertise* moves the conversation beyond the dichotomy between technocracy and populism and develops a better answer for how to govern and use science democratically.

Accelerated Expertise Jun 27 2022 Speed in acquiring the knowledge and skills to perform tasks is crucial. Yet, it still ordinarily takes many years to achieve high proficiency in countless jobs and professions, in government, business, industry, and throughout the private sector. There would be great advantages if regimens of training could be established that could accelerate the achievement of high levels of proficiency. This book discusses the construct of ‘accelerated learning.’ It includes a review of the research literature on learning acquisition and retention, focus on establishing what works, and why. This includes several demonstrations of accelerated learning, with specific ideas, plans and roadmaps for doing so. The impetus for the book was a tasking from the Defense Science and Technology Advisory Group, which is the top level Science and Technology policy-making panel in the Department of Defense. However, the book uses both military and non-military exemplar case studies. It is likely that methods for acceleration will leverage technologies and capabilities including virtual training, cross-training, training across strategic and tactical levels, and training for resilience and adaptivity. This volume provides a wealth of information and guidance for those interested in the concept or phenomenon of “accelerating learning”— in education, training, psychology, academia in general, government, military, or industry.

Social Software and the Evolution of User Expertise: Future Trends in Knowledge Creation and Dissemination Oct 27 2019 The new generation of internet technologies and web applications is seeing a growth in social software and networking, as well as other communications tools. This infrastructure of social interaction and collaboration has provided an increase in more dynamic user participation and expertise in knowledge of contents and facts traditionally only held by experts. *Social Software and the Evolution of User Expertise: Future Trends in Knowledge Creation and Dissemination* examines the vital role that social software applications play in regards to the cultural definitions of experts and challenges the reader to consider how recent changes in this area influence how we create and distribute knowledge. This collection brings together scholars and practitioners from various disciplines and professions to project a new kind of thinking about the understanding of the major changes in many professions.

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