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ROGERS MONROE

Singapore Math and Science Education
Innovation Routledge

Rethinking Education in Light of Global Challenges discusses challenges to education in Scandinavian welfare states due to global trends like migration, neoliberal strategies, and the exploitation of nature. This anthology comprises case studies, theoretical articles, and reflective studies, grouped under the headings of Culture, Society, and the Anthropocene. This book directly addresses three

interrelated global events and their implications for education as seen from Scandinavian perspectives: migration flows, increased cultural diversity, and (post)nationalism; the erosion of the welfare state and the global rise of neoliberalism; and the Anthropocene and environmental challenges arising in the wake of the global exploitation of natural ecosystems. In case studies, theoretical articles, and reflective studies, researchers from Nordic countries explore how education, education policy, and educational thinking in these countries are affected by these global trends, bringing to the fore the different roles education can play in addressing the various issues

and different ways of reimagining education. This authoritative volume will be of great interest to researchers, academics, and students in the fields of sociology of education, migration and education, environmental education, and educational politics.

Leading Education Systems Springer
Nature

This book is a collection of essays by thought and advocacy leaders, policymakers, and academics in Singapore who have been and are in positions of influence in shaping social policies, and hence the social context, in the country. These essays are meant to initiate discussion, promote debate and broaden

understanding of the social issues at play, the challenges faced, and the trade-offs involved in enhancing social policies, strengthening the social compact, and shaping the social context in Singapore. This is done through addressing issues and challenges in (1) Government and Civil Society; (2) Education; (3) Employability and Employment; (4) Social and Family Development; (5) Demographics and Social Spending; (6) Healthcare and Healthcare Financing; (7) Urban Planning and the Environment; (8) Disruptions, New Technologies and Smart Nation. It is hoped this book will be useful for students of sociology, social policy or public policy, as they discuss the dynamics and trade-offs involved in planning, shaping and implementing social and public policies in Singapore. This book also hopes to inform and initiate dialogues among Singaporeans on the social issues and challenges we face in our city-state and which we have to collectively address as a nation.

Trends and Perspectives Emerald Group Publishing

As the once-in-a-lifetime stimulus of a pandemic creates the opportunity for

change, this ground-breaking and timely edited text is a must-have springboard for the re-imagining of education system leadership. How can education stakeholders act in collaboration to lead us into a new and different age?

STEM Education from Asia Springer Nature Asia is the largest continent in the world.

Five out of the top ten high performing economies in the Programme for International Student Assessment (PISA) 2018 are located in Asia. Why do Asian students perform so well in STEM-related subjects? This book answers this by examining the STEM education policies and initiatives in Asian economies, as well as the training programmes undertaken by STEM teachers in Asia. The book is broken into four sections, each accompanied by a passage of commentary that summarizes the key takeaways of the chapters.

Section one focuses on STEM policy environments and how various countries have developed policies that promote STEM as an integral part of national economic development. Section two focuses on STEM teacher education in the Philippines and Thailand, while section three focuses on STEM curriculum design,

context, and challenges in four Asian economies. The fourth and final section focuses on presenting snapshots of STEM education research efforts in Malaysia, South Korea, and Singapore. Written by Asian academics, this book will provide valuable insights to policy makers, educators, and researchers interested in the topic of STEM education, especially in the Asian context. Chapters 7 and 11 of this book are freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license available at <http://www.taylorfrancis.com>

Understanding China's School Leadership Springer Nature

This open access handbook brings together the latest research from a wide range of internationally influential scholars to analyze educational policy research from international, historical and interdisciplinary perspectives. By effectively breaking through the boundaries between countries and disciplines, it presents new theories, techniques and methods for contemporary education policy, and illustrates the educational policies and educational

reform practices that various countries have introduced to meet the challenges of continuous change. This volume focuses on policies and changes in schools and classrooms. The studies on school changes present the differences in the policies and challenges of K-12 schools and universities in different countries and regions, and in connection with the contradictions and conflicts between tradition and modernization, as well as the changing roles of various stakeholders, especially that of teachers. In terms of curriculum and instruction, many countries have undertaken experiments and introduced changes based on two major themes: “what to teach” and “how to teach”. International education assessments represented by PISA not only promote the improvement and extensive application of educational assessment and testing techniques, but have also had far-reaching impacts on education policies and education reforms in many countries. Focusing on the changes in educational policies at the micro level, this volume comprehensively reveals the complex interactions between school organizations, teachers, curricula, teaching and learning,

evaluation and other elements within the education system, as well as the latest related reforms worldwide.

Policy, Teacher Education and the Quality of Teachers and Teaching Routledge

This edited volume explores key areas of interests in Singapore math and science education including issues on teacher education, pedagogy, curriculum, assessment, teaching practices, applied learning, ecology of learning, talent grooming, culture of science and math, vocational education and STEM. It presents to policymakers and educators a clear picture of the education scene in Singapore and insights into the role of math and science education in helping the country excel beyond international studies such as PISA, the pedagogical and curricula advancements in math and science learning, and the research and practices that give Singaporean students the competitive edge in facing the uncertain and challenging landscape of the future.

Scaling up ICT-based Innovations in Schools IGI Global

Exploring practitioner research and the possibilities it creates for increasing

student participation and developing inclusive practices in educational contexts, this insightful text presents a range of original and innovative approaches to Action Research, and highlights the critical relationship between educational theory, research and practice in transformative action. Focussing on social constructivist approaches to teaching and learning, Action Research for Inclusive Education offers first-hand insights from researcher-practitioners from international settings including Denmark, Germany, Ireland, Saudi Arabia, Granada, Greece, Singapore and England. Chapters explore diverse participatory and collaborative research practices which draw on the strengths and contributions of teachers and support staff, pupils, and families to foster inclusive practices across the school community and strengthen the participation and independence of all students. Topics considered include collaboration in Participatory Action Research, friendships and the development of students’ social skills, student voice and the role of pupils as co-researchers and peer mentors. Making an important contribution to debates on

inclusive education and the role of practitioners and students in bringing about change, this text will be key reading for students, teachers and educational researchers.

Action Research for Inclusive Education
Springer Nature

This book provides an overview of the evolution of education in the United Arab Emirates from its humble beginnings in palm frond huts, to today's proliferation of prestigious international schools and global university branch campuses. The chapter authors are academic experts who have extensive first-hand experience of contemporary developments in the country's various educational sectors. The book addresses innovations and transformations in Early Childhood Education, Higher Education, K-12 Schooling, Language Education in Arabic and English, Quality Assurance, Special Needs, STEM Education, and Teacher Education and Professional Development. *Trans-national Perspectives on Access, Equity, and Internationalization* Routledge

Improve Schools and Transform Education In order for educational systems to change, we must reevaluate deep-seated

beliefs about learning, teaching, schooling, and race that perpetuate inequitable opportunities and outcomes. Hatch, Corson, and Gerth van den Berg challenge the narrative when it comes to the "grammar of schooling"--or the conventional structures, practices, and beliefs that define educational experiences for so many children—to cast a new vision of what school could be. The book addresses current systemic problems and solutions as it:

- Highlights global examples of successful school change
- Describes strategies that improve educational opportunities and performance
- Explores promising approaches in developing new learning opportunities
- Outlines conditions for supporting wide-scale educational improvement

This provocative book approaches education reform by highlighting what works, while also demonstrating what can be accomplished if we redefine conventional schools. We can make the schools we have more efficient, more effective, and more equitable, all while creating powerful opportunities to support all aspects of students' development. You won't find a

better book on system change in education than this one. We learn why schools don't change; how they can improve; what it takes to change a system; and, in the final analysis, the possibilities of system change. Above all, *The Education We Need* renders complexity into clarity as the writing is so clear and compelling. A powerful read on a topic of utmost importance. Michael Fullan, Professor Emeritus OISE/University of Toronto I cannot recommend this book highly enough - Tom tackles long-standing and emerging educational issues in new ways with an impressive understanding of the challenging complexities, but also feasible possibilities, for ensuring excellence and equity for all students. Carol Campbell, Associate Professor Ontario Institute for Studies in Education, University of Toronto

Participation and Democracy in Teaching and Learning Multilingual Matters

This original volume examines the collaboration between East Timorese and international staff in the rebuilding of the education sector during the United Nations Transitional Administration in East Timor

(UNTAET) 1999-2002. Using interviews, contemporary newspaper articles and reports from UN sources and the World Bank, the book enables a comprehensive analysis of Timorese agency. Examining choices made by the Timorese and drawing comparison with other former Portuguese colonies, the text considers the power of the Timorese elite, the role of nepotism and corruption, the preservation of the Indonesian curriculum and the selection of Portuguese as the medium of instruction and official language - together with Tetum. Concluding with a contemporary discussion on the educational achievements for East Timorese children during UNTAET compared with those of today, *Rebuilding the Education Sector in East Timor during UNTAET* will be of interest to academics, researchers and post-graduate students in the fields of post-conflict studies, post-colonial education and language policy as well as East Timor more specifically. This book will also benefit graduate students and scholars in teacher education. Trina Supit completed her PhD at the University of Sydney, Australia. She was a member of the UNTAET Division of Education.

Comparing High-Performing Education Systems Springer Nature

This book proposes a new paradigm for English language teaching based on concepts from English for Specific Purposes (ESP) research and applications as well as from growing evidence relating pattern recognition to language learning ability. The contributors to the volume argue that learners should not try to become proficient all-around users of 'idealistic native-like' English, but instead should be realistic about what they need to acquire and how to go about achieving their specific goals. The book discusses the present situation by describing the status quo of English language education in Japan, taking into consideration recent trends of CLIL (content and language integrated learning), EMI (English medium instruction), and TBLT (task-based language teaching) as well as the work done on the Common European Framework of Reference for Languages (CEFR). It introduces new movements in ESP in Japan and in other Asian regions, covering topics ranging from genre analysis to corpus linguistics, and presents application examples of ESP practice in a

range of educational situations in Japan from the graduate school level to elementary and middle school contexts. It also offers readers application examples of ESP practice in a range of business settings and expands the discussion to the global sphere where EAP and ESP are gaining importance as the number of ELF (English as a Lingua Franca) speakers continue to increase. The book will be of great interest to academics, researchers, and post-graduate students working in the fields of EFL and ESL.

Scholars, Policymakers, and Activists in Conversation Education in Singapore People-Making and Nation-Building

This book addresses the past and changing contexts of Chinese and German teacher education under the impact of globalization and echoes "quality" issues of teacher education. This edited book provides a comprehensive discussion on other issues in the management and implementation of change in teacher education related to teacher education curricula for professional development of teachers. A combination of chapters provides an overview, a review of

literature and research as well as offering examples of teacher education practice and updated empirical research on these topics co-edited by two senior scholars and written by experts from Mainland China (including Hong Kong) and Germany. The volume addresses key issues on teacher standards, ICT in education and e-learning in teacher education, STEM education, vocational teacher education, university-school partnership in teacher education and teaching Chinese or German as a second language. This is an up-to-date academic book to look at profound issues related to quality in teacher education and teachers' professional development in mainland China and Germany. It will be a useful reference for graduate students and researchers in the field of international and comparative education, teacher education and curriculum studies, teacher educators and practitioners to learn from trends, best practice and challenges that have been encountered in Mainland China and Germany.

Mathematical Modelling Education in East and West Routledge

This book demonstrates that policy,

professionalism, and pedagogy are integral to the development of the best teachers that our students deserve. The empirical quantitative and qualitative studies and narratives presented in this volume demonstrate that strong analyses are needed to drive decisions on policy and practice.

The Education We Need for a Future We Can't Predict Springer Nature

This volume provides an in-depth, comparative examination of how primary mathematics education is influenced by national education reform, policy, local resources, and culture in three different countries. By drawing on first-hand observations and interviews, as well as analysis of policy documents and learning resources, the book considers the viability of transferring best practices in primary mathematics education across global contexts. Three diverse countries – Ghana, the US, and Singapore – are explored. Similarities and differences are highlighted, and the influence of national and regional initiatives related to pedagogical strategies, teacher education, and cultural expectations are considered, to offer an insightful examination of how

best practices might be shared across borders. This book will benefit researchers, academics, and postgraduate scholars with an interest in international and comparative education, mathematics, and educational policy. Those with a specialization in primary mathematics education, including pedagogy and teacher preparation, will also benefit from this book.

Handbook of Education Policy Studies Springer Nature

This Handbook offers a critical analysis of the major theoretical and empirical issues in public policy and public administration in China. Investigating methodological, theoretical, and conceptual themes, it provides an insightful reflection on how China is governed.

Malaysia's Leap Into the Future Routledge

Revolutionary Struggles and Girls' Education centers on the education system of North-Ethiopia's (in)ability to address discrimination and enable transformation of “hard-lived” gender norms, which therefore continue to hinder girls' educational performance, even after parity is reached.

Scandinavian Perspectives on Culture, Society, and the Anthropocene World Scientific

With increasing global challenges, the Belt and Road initiative seems to offer one possible platform to think about different possibilities and pathways to promote international collaboration and development covering Asia, Europe, Africa, and other countries. Information and Communication Technology (ICT) in education, as a key focus, provides valuable perspectives for governments, inter-governmental and non-governmental agencies wanting to innovate and advance both ICT and education independently and collaboratively. This book highlights the burgeoning of ICT in education in eleven countries, with particular emphasis placed on the context of the Belt and Road Initiative. ICT has increasingly important roles in education including improve teaching and learning qualities, as well as equity in education. The prominent contributors describe the state-of-the-art of ICT in education in eleven countries based on six major themes (policy perspectives, infrastructure, educational resources, ICT integration into practices,

students' ICT competence, and teachers' professional development). We hope the in-depth discussions included in this book would provoke more academic and policy insights globally.

International Beliefs and Practices That Characterize Teacher Effectiveness Corwin Press

This book documents ongoing research and theorizing in the sub-field of mathematics education devoted to the teaching and learning of mathematical modelling and applications. Mathematical modelling provides a way of conceiving and resolving problems in people's everyday lives as well as sophisticated new problems for society at large. Mathematical tradition in China that emphasizes algorithm and computation has now seen a renaissance in mathematical modelling and applications where China has made significant progress with its economy, science and technology. In recent decades, teaching and learning of mathematical modelling as well as contests in mathematical modelling have been flourishing at different levels of education in China. Today, teachers and researchers in China become keener to

learn from their colleagues from Western countries and other parts of the world in research and teaching of mathematical modelling and applications. The book provides a dialogue and communication between colleagues from across the globe with new impetus and resources for mathematical modelling education and its research in both West and East with new ideas on modelling teaching and practices, inside and outside classrooms. All authors of this book are members of the International Community of Teachers of Mathematical Modelling and Applications (ICTMA), the peak research body into researching the teaching, assessing and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace. The book is of interest to researchers, mathematics educators, teacher educators, education administrators, policy writers, curriculum developers, professional developers, in-service teachers and pre-service teachers including those interested in mathematical literacy.

Refugees and Higher Education

Springer Nature

This edited book is a collection of keynote speeches in the 3rd Global Teacher Education Summit in Beijing Normal University from October 14 to 16, 2017. The speeches intend to raise international response in the field of teacher education to the enduringly changing education policy environment. Multiple perspectives are needed in order to gain insights into teaching and teacher education for excellence and equity, as well as disentangle from rigid, inapplicable old paradigms. This book on one hand provides typify global voices, and on the other hand contributes Chinese stories to this field. China's education manifests a tendency with stronger indigenous features related to the changing domestic climate and international geopolitical position. Chapters included about teaching and teacher education in China can provide local evidence, intelligence and relevance to global audience, and even voice indigenous epistemes within the non-Western platform. This book aims to build such dialogs between global

perspectives and Chinese insights for heteroglossia in content and methodology in the field of teaching and teacher education.

People-Making and Nation-Building BRILL Comparing High-Performing Education Systems provides original insights into the educational structures, ideologies, policies, and practices in Singapore, Shanghai, and Hong Kong. Taking as its basis their global reputation and consistently strong performance in formal assessments, the author provides an in-depth analysis and comparison of these three education systems that draws on cutting-edge research. Chapters explore the dominant cultural and educational norms in Singapore, Shanghai, and Hong Kong to give a wider picture of these high-performing education systems. The performance of students in international large-scale assessments such as Programme for International Student Assessment (PISA), Trends in International Mathematics and Science Study (TIMSS),

and Progress in International Reading Literacy Study (PIRLS) is considered, alongside an exploration of attitudes to schooling, tutoring, and assessment. The book shows how Singapore, Shanghai, and Hong Kong exemplify an East Asian Educational Model (EAEM). Such a model – is rooted in and shaped by Confucian habitus: unconscious and ingrained worldviews, dispositions, and habits that reflect the standards of appropriateness in a Confucian Heritage Culture; aspires high performance: a balance between academic excellence and holistic development; and utilises educational harmonisation: the art of bringing together different and contradictory means and ends to achieve desired educational outcomes. Informative and thought-provoking, this book is a useful reference for policymakers, researchers, educators, and general readers on high-performing education systems, school reforms in East Asia, Confucian influences on education, and cross-cultural policy learning and transfer.