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**KEY=AND - JORDON DAUGHERTY**

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## Transforming the Future (Open Access)

### Anticipation in the 21st Century

*Routledge People are using the future to search for better ways to achieve sustainability, inclusiveness, prosperity, well-being and peace. In addition, the way the future is understood and used is changing in almost all domains, from social science to daily life. This book presents the results of significant research undertaken by UNESCO with a number of partners to detect and define the theory and practice of anticipation around the world today. It uses the concept of 'Futures Literacy' as a tool to define the understanding of anticipatory systems and processes - also known as the Discipline of Anticipation. This innovative title explores:*

- new topics such as Futures Literacy and the Discipline of Anticipation;
- the evidence collected from over 30 Futures Literacy Laboratories and presented in 14 full case studies;
- the need and opportunity for significant innovation in human decision-making systems.

*This book will be of great interest to scholars, researchers, policy-makers and students, as well as activists working on sustainability issues and innovation, future studies and anticipation studies. The Open Access version of this book, available at <https://www.taylorfrancis.com/books/e/9781351047999>, has been made available under a Attribution-NonCommercial-NoDerivs 3.0 IGO (CC-BY-NC-ND 3.0 IGO) license.*

### Culture: urban future

### global report on culture for sustainable urban development

*UNESCO Publishing Report presents a series of analyses and recommendations for fostering the role of culture for sustainable development. Drawing on a global survey implemented with nine regional partners and insights from scholars, NGOs and urban thinkers, the report offers a global overview of urban heritage safeguarding, conservation and management, as well as the promotion of cultural and creative industries, highlighting their role as resources for sustainable urban development. Report is intended as a policy framework document to support governments in the implementation of the 2030 Agenda for Sustainable Urban Development and the New Urban Agenda.*

### UNESCO Guidebook on Textbook Research and Textbook Revision

UNESCO

## NBS Special Publication

### Water, Cultural Diversity, and Global Environmental Change

#### Emerging Trends, Sustainable Futures?

*Springer Science & Business Media Co-published with UNESCO A product of the UNESCO-IHP project on Water and Cultural Diversity, this book represents an effort to examine the complex role water plays as a force in sustaining, maintaining, and threatening the viability of culturally diverse peoples. It is argued that water is a fundamental human need, a human right, and a core sustaining element in biodiversity and cultural diversity. The core concepts utilized in this book draw upon a larger trend in sustainability science, a recognition of the synergism and analytical potential in utilizing a coupled biological and social systems analysis, as the functioning viability of nature is both sustained and threatened by humans.*

## The Restoration of Borobudur

*United Nations Educational This publication traces the history and restoration of Chandi Borobudur, a Buddhist temple built over 1,000 years ago on the island of Java, Indonesia which was successfully restored during 1973-1983 and listed as a World Heritage Site in 1991. It covers the various aspects of the process, including the long and painstaking task of logging the position of the stones, the studies that revealed the underlying sources of decay, and the important archaeological finds that provided clues to the temple's spiritual past; and includes many of the original drawings and photographs taken from the restoration project archives.*

## Indigenous Knowledge and the Integration of Knowledge Systems

### Towards a Philosophy of Articulation

*New Africa Books This book explores the role of the social and natural sciences in supporting the development of indigenous knowledge systems. It looks at how indigenous knowledge systems can impact on the transformation of knowledge generating institutions such as scientific and higher education institutions on the one hand, and the policy domain on the other.*

## Media and information literacy

### reinforcing human rights, countering radicalization and extremism (The MILID yearbook, 2016)

*UNESCO Publishing Aucune information saisie*

## Monthly Catalogue, United States Public Documents

## Scientific and Technical Aerospace Reports

### Sustainable Intensification

## Increasing Productivity in African Food and Agricultural Systems

*Routledge Continued population growth, rapidly changing consumption patterns and the impacts of climate change and environmental degradation are driving limited resources of food, energy, water and materials towards critical thresholds worldwide. These pressures are likely to be substantial across Africa, where countries will have to find innovative ways to boost crop and livestock production to avoid becoming more reliant on imports and food aid. Sustainable agricultural intensification – producing more output from the same area of land while reducing the negative environmental impacts – represents a solution for millions of African farmers. This volume presents the lessons learned from forty sustainable agricultural intensification programmes in twenty countries across Africa, commissioned as part of the UK Government's Foresight project. Through detailed case studies, the authors of each chapter examine how to develop productive and sustainable agricultural systems and how to scale up these systems to reach many more millions of people in the future. Themes covered include crop improvements, agroforestry and soil conservation, conservation agriculture, integrated pest management, horticulture, livestock and fodder crops, aquaculture, and novel policies and partnerships.*

## Product-Service System Design for Sustainability

*Routledge This book, based on a huge European and Asian research project, is a state-of-the-art examination of the theory and practice of system innovation through Product-Service System (PSS) design for sustainability from a trans-cultural viewpoint. PSS design incorporates innovative strategies that shift businesses away from simply designing and selling physical products to developing integrated systems of products and services that satisfy human needs. The book provides background, advice and tools for designers interested in sustainable PSSs and has a wealth of case studies for practitioners to digest.*

## The Road to Results

## Designing and Conducting Effective Development Evaluations

*World Bank Publications 'The Road to Results: Designing and Conducting Effective Development Evaluations' presents concepts and procedures for evaluation in a development context. It provides procedures and examples on how to set up a monitoring and evaluation system, how to conduct participatory evaluations and do social mapping, and how to construct a "rigorous" quasi-experimental design to answer an impact question. The text begins with the context of development evaluation and how it arrived where it is today. It then discusses current issues driving development evaluation, such as the Millennium Development Goals and the move from simple project evaluations to the broader understandings of complex evaluations. The topics of implementing 'Results-based Measurement and Evaluation' and constructing a 'Theory of Change' are emphasized throughout the text. Next, the authors take the reader down 'the road to results,' presenting procedures for evaluating projects, programs, and policies by using a 'Design Matrix' to help map the process. This road includes: determining the overall approach, formulating questions, selecting designs, developing data collection instruments, choosing a sampling strategy, and planning data analysis for qualitative, quantitative, and mixed method evaluations. The book also includes discussions on conducting complex evaluations, how to manage evaluations, how to present results, and ethical behavior--including principles, standards, and guidelines. The final chapter discusses the future of development evaluation. This comprehensive text is an essential tool for those involved in development evaluation.*

## Transforming Learning with Meaningful Technologies

### 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, Delft, The Netherlands, September 16–19, 2019, Proceedings

*Springer Nature* This book constitutes the proceedings of the 14th European Conference on Technology Enhanced Learning, EC-TEL 2019, held in Delft, The Netherlands, in September 2019. The 41 research papers and 50 demo and poster papers presented in this volume were carefully reviewed and selected from 149 submissions. The contributions reflect the debate around the role of and challenges for cutting-edge 21st century meaningful technologies and advances such as artificial intelligence and robots, augmented reality and ubiquitous computing technologies and at the same time connecting them to different pedagogical approaches, types of learning settings, and application domains that can benefit from such technologies.

## Water Resource Systems Planning and Management

### An Introduction to Methods, Models, and Applications

*Springer* This book is open access under a CC BY-NC 4.0 license. This revised, updated textbook presents a systems approach to the planning, management, and operation of water resources infrastructure in the environment. Previously published in 2005 by UNESCO and Deltares (Delft Hydraulics at the time), this new edition, written again with contributions from Jery R. Stedinger, Jozef P. M. Dijkman, and Monique T. Villars, is aimed equally at students and professionals. It introduces readers to the concept of viewing issues involving water resources as a system of multiple interacting components and scales. It offers guidelines for initiating and carrying out water resource system planning and management projects. It introduces alternative optimization, simulation, and statistical methods useful for project identification, design, siting, operation and evaluation and for studying post-planning issues. The authors cover both basin-wide and urban water issues and present ways of identifying and evaluating alternatives for addressing multiple-purpose and multi-objective water quantity and quality management challenges. Reinforced with cases studies, exercises, and media supplements throughout, the text is ideal for upper-level undergraduate and graduate courses in water resource planning and management as well as for practicing planners and engineers in the field.

## Energy Abstracts for Policy Analysis

### Energy: a Continuing Bibliography with Indexes

### Primary and Secondary Education During Covid-19

### Disruptions to Educational Opportunity During a Pandemic

*Springer Nature* This open access edited volume is a comparative effort to discern the short-term educational impact of the covid-19 pandemic on students, teachers and systems in Brazil, Chile, Finland, Japan, Mexico, Norway, Portugal, Russia, Singapore, Spain, South Africa, the United Kingdom and the United States. One of the first academic comparative studies of the educational impact of the pandemic, the book explains how the interruption of in person instruction and the variable efficacy of alternative forms of education caused learning loss and disengagement with learning, especially for disadvantaged students. Other direct and indirect impacts of the pandemic diminished the ability of families to support children and youth in their education. For students, as well as for teachers and school staff, these included the economic shocks experienced by families, in some cases leading to food insecurity and in many more causing stress and anxiety and impacting mental health. Opportunity

to learn was also diminished by the shocks and trauma experienced by those with a close relative infected by the virus, and by the constraints on learning resulting from students having to learn at home, where the demands of schoolwork had to be negotiated with other family necessities, often sharing limited space. Furthermore, the prolonged stress caused by the uncertainty over the resolution of the pandemic and resulting from the knowledge that anyone could be infected and potentially lose their lives, created a traumatic context for many that undermined the necessary focus and dedication to schoolwork. These individual effects were reinforced by community effects, particularly for students and teachers living in communities where the multifaceted negative impacts resulting from the pandemic were pervasive. This is an open access book.

## Common European Framework of Reference for Languages: Learning, Teaching, assessment

### Companion volume

*Council of Europe The CEFR Companion volume broadens the scope of language education. It reflects academic and societal developments since the publication of the Common European Framework of Reference for Languages (CEFR) and updates the 2001 version. It owes much to the contributions of members of the language teaching profession across Europe and beyond. This volume contains: ► an explanation of the key aspects of the CEFR for teaching and learning; ► a complete set of updated CEFR descriptors that replaces the 2001 set with: - modality-inclusive and gender-neutral descriptors; - added detail on listening and reading; - a new Pre-A1 level, plus enriched description at A1 and C levels; - a replacement scale for phonological competence; - new scales for mediation, online interaction and plurilingual/pluricultural competence; - new scales for sign language competence; ► a short report on the four-year development, validation and consultation processes. The CEFR Companion volume represents another step in a process of engagement with language education that has been pursued by the Council of Europe since 1971 and which seeks to: ► promote and support the learning and teaching of modern languages; ► enhance intercultural dialogue, and thus mutual understanding, social cohesion and democracy; ► protect linguistic and cultural diversity in Europe; and ► promote the right to quality education for all.*

## Information Technology and Libraries

### Designing for the User Experience in Learning Systems

*While the focus of the UX research and design discipline and the Learning Sciences and instructional design disciplines is often similar and almost always tangential, there seems to exist a gap, i.e. a lack of communication between the two fields. Not much has been said about how UX Design can work hand-in-hand with instructional design to advance learning. The goal of this book is to bridge this gap by presenting work that cuts through both fields. To illustrate this gap in more detail, we provide a combined view of UX Research and Design & Educational Technology. While the traditional view has perceived the Learning Experience Design as a field of Instructional Design, we will highlight its connection with UX, an aspect that has become increasingly relevant. Our focus on user experience research and design has a unique emphasis on the human learning experience: we strongly believe that in learning technology the technological part is only mediating the learning experience, and we do not focus on technological advancements per se, as we believe they are not the solution, in themselves, to the problems that education is facing. This book aims to lay out the challenges and opportunities in this field and highlight them through research presented in the various chapters. Thus, it presents a unique opportunity to represent areas of learning technology that go very far beyond the MOOC and the classroom technology. The book provides an outstanding overview and insights in the area and it aims to serve as a significant and valuable source for learning researchers and practitioners. The chapter "User requirements when designing learning e-content: interaction for all" is available open access under a CC BY 4.0 license at [link.springer.com](http://link.springer.com).*

## Experimental and Quasi-Experimental Designs for Research

*Ravenio Books We shall examine the validity of 16 experimental designs against 12 common threats to valid inference. By experiment we refer to that portion of research in which variables are manipulated and their effects upon other variables observed. It is well to distinguish the particular role of this chapter. It is not a chapter on experimental design in the Fisher (1925, 1935) tradition, in*

which an experimenter having complete mastery can schedule treatments and measurements for optimal statistical efficiency, with complexity of design emerging only from that goal of efficiency. Insofar as the designs discussed in the present chapter become complex, it is because of the intransigency of the environment: because, that is, of the experimenter's lack of complete control.

## Cultural Routes management: from theory to practice

*Council of Europe In 1987, the Santiago de Compostela Declaration laid the foundations for the first Council of Europe Cultural Route, highlighting the importance of our rich, colourful and diverse European identities. Today, the Council of Europe Enlarged Partial Agreement (EPA) on Cultural Routes oversees 29 routes connecting culture and heritage across Europe. Cultural Routes are powerful tools for promoting and preserving these shared and diverse cultural identities. They are a model for grass-roots cultural co-operation, providing important lessons about identity and citizenship through a participative experience of culture. From the European Route of Megalithic Culture with its monuments built as long as 6 000 years ago, to the ATRIUM route of Architecture of Totalitarian Regimes, the routes contain elements of our past which help us to understand the present and to approach the future with confidence. The Cultural Routes also stimulate thematic cultural tourism in lesserknown parts of the continent, helping to develop economic and social stability in Europe. This first ever step-by-step guide to the design and management of Council of Europe Cultural Routes will be an essential reference for route managers, project developers, students and researchers in cultural tourism and related subjects. It addresses aspects ranging from the Council of Europe's conventions to co-creation, fund-raising and governance, and it explores a Cultural Route model that has evolved into an exemplary system for sustainable, transnational co-operation and that has proved to be a successful road map for socio-economic development, cultural heritage promotion and intergenerational communication. The Council of Europe EPA on Cultural Routes is the result of our successful co-operation with the Luxembourg Ministry of Culture and the European Union. Increasingly, other organisations, such as the United Nations World Tourism Organization, are joining this project. This handbook was funded by the third European Commission/Council of Europe Joint Programme on Cultural Routes.*

## NERD – New Experimental Research in Design

*Birkhäuser Design has long expressed and established itself as an independent research competence – a fact that also companies, institutions and politicians have come to acknowledge. What is still needed, however, is a stronger public platform for design to confidently reflect upon this process and to establish and communicate the specific innovative and experimental dimension of design research. For this reason, BIRD, the Board of International Research in Design, has developed the New Experimental Research in Design / NERD format. The edited conference contributions of twelve young researchers from all over the world provide an impressive and diverse and insightful range of intelligent and inspiring approaches in design research, giving rise to further debate and action in the rapidly evolving field.*

## Digital Transformation of the Design, Construction and Management Processes of the Built Environment

*Springer Nature This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector.*

## Trends and Applications in Information Systems and Technologies

## Volume 2

*Springer Nature* This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research, together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

## Resources in education

## Telecommunication Journal

## Compiler Construction

*Springer Science & Business Media* Compilers and operating systems constitute the basic interfaces between a programmer and the machine for which he is developing software. In this book we are concerned with the construction of the former. Our intent is to provide the reader with a firm theoretical basis for compiler construction and sound engineering principles for selecting alternate methods, implementing them, and integrating them into a reliable, economically viable product. The emphasis is upon a clean decomposition employing modules that can be re-used for many compilers, separation of concerns to facilitate team programming, and flexibility to accommodate hardware and system constraints. A reader should be able to understand the questions he must ask when designing a compiler for language X on machine Y, what tradeoffs are possible, and what performance might be obtained. He should not feel that any part of the design rests on whim; each decision must be based upon specific, identifiable characteristics of the source and target languages or upon design goals of the compiler. The vast majority of computer professionals will never write a compiler. Nevertheless, study of compiler technology provides important benefits for almost everyone in the field. • It focuses attention on the basic relationships between languages and machines. Understanding of these relationships eases the inevitable transitions to new hardware and programming languages and improves a person's ability to make appropriate tradeoffs in design and implementation.

## Pedagogy of the Oppressed

## Confronting Climate Uncertainty in Water Resources Planning and Project Design

## The Decision Tree Framework

*World Bank Publications* Confronting Climate Uncertainty in Water Resources Planning and Project Design describes an approach to facing two fundamental and unavoidable issues brought about by climate change uncertainty in water resources planning and project design. The first is a risk assessment problem. The second relates to risk management. This book provides background on the risks relevant in water systems planning, the different approaches to scenario definition in water system planning, and an introduction to the decision-scaling methodology upon which the decision tree is based. The decision tree is described as a scientifically defensible, repeatable, direct and clear method for demonstrating the robustness of a project to climate change. While applicable to all water resources projects, it allocates effort to projects in a way that is consistent with their potential sensitivity to climate risk. The process was designed to be hierarchical, with different stages or phases of analysis triggered based on the findings of the previous phase. An application example is provided followed by a descriptions of some of the tools available for decision making under uncertainty and methods available for climate risk management. The tool was designed for the World Bank but can be applicable in other scenarios where similar challenges arise.

Department of State News Letter

Newsletter

News Letter

Newsletter

## The Influence of Computers and Informatics on Mathematics and Its Teaching Proceedings From a Symposium Held in Strasbourg, France in March 1985 and Sponsored by the International Commission on Mathematical Instruction

*CUP Archive First published in 1986, the first ICMI study is concerned with the influence of computers and computer science on mathematics and its teaching in the last years of school and at tertiary level. In particular, it explores the way the computer has influenced mathematics itself and the way in which mathematicians work, likely influences on the curriculum of high-school and undergraduate students, and the way in which the computer can be used to improve mathematics teaching and learning. The book comprises a report of the meeting held in Strasbourg in March 1985, plus several papers contributed to that meeting.*

### What's In, What's Out

## Designing Benefits for Universal Health Coverage

*Brookings Institution Press Vaccinate children against deadly pneumococcal disease, or pay for cardiac patients to undergo lifesaving surgery? Cover the costs of dialysis for kidney patients, or channel the money toward preventing the conditions that lead to renal failure in the first place? Policymakers dealing with the realities of limited health care budgets face tough decisions like these regularly. And for many individuals, their personal health care choices are equally stark: paying for medical treatment could push them into poverty. Many low- and middle-income countries now aspire to universal health coverage, where governments ensure that all people have access to the quality health services they need without risk of impoverishment. But for universal health coverage to become reality, the health services offered must be consistent with the funds available—and this implies tough everyday choices for policymakers that could be the difference between life and death for those affected by any given condition or disease. The situation is particularly acute in low- and middle income countries where public spending on health is on the rise but still extremely low, and where demand for expanded services is growing rapidly. What's In, What's Out: Designing Benefits for Universal Health Coverage argues that the creation of an explicit health benefits plan—a defined list of services that are and are not available—is an essential element in creating a sustainable system of universal health coverage. With contributions from leading health economists and policy experts, the book considers the many dimensions of governance, institutions, methods, political economy, and ethics that are needed to decide what's in and what's out in a way that is fair, evidence-based, and sustainable over time.*

# PISA Literacy Skills for the World of Tomorrow Further Results from PISA 2000

## Further Results from PISA 2000

*OECD Publishing This report extends the picture of literacy skills th PISA 2000 provides to additional countries that have recently joined the programme: Albania; Argentina; Bulgaria; Chile; Hong Kong-China; Indonesia; Israel; FYR Macedonia; Peru; Romania and Thailand.*

## Introduction to Compilers and Language Design

*Lulu.com*

## IEEE Transactions on Electronic Computers