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Trends in International Mathematics and Science Study (TIMSS) is one of the projects of the International Association for the Evaluation of Educational Achievement (IEA), located at Amsterdam, The Netherlands and Hamburg, Germany. IEA is an independent cooperative of national educational research institutions and governmental research agencies dedicated to improving education. TIMSS is conducted regularly for every four years to assess students' achievement in science and mathematics at both the fourth and eighth grades. The project is dedicated to providing participating countries with information to improve teaching and learning in science and mathematics. This book is written especially for the interest of undergraduate students, postgraduate students, and educators of science education who wish to know more about the contributing factors to Grade 8 students' science achievement in TIMSS. This book is also resourceful for individuals who are involved, directly or indirectly, in the administration and implementation of TIMSS at the national, state, district, and school levels. This book consists of seven chapters. The first chapter gives a brief introduction to TIMSS which includes the TIMSS curriculum model and TIMSS science assessment frameworks. The subsequent chapters compare the contribution of various factors, i.e., home environment support, school resources, school climate, teacher preparation, and classroom instructions on Malaysian and Singaporean Grade 8 students' science achievement in TIMSS 2011. Last but not least, recommendations on ways to improve Malaysian Grade 8 students' science achievement in the forthcoming TIMSS are suggested based on the experiences of the Singaporean education system.

The DRHA2014 publication includes ground breaking academic papers and well-known speakers and series of installations and exhibitions. The "book of Abstract" publication for the DRH2014 conference showcase up to-date discussions, dynamic debates, innovative keynotes and experimental performances and aims to open a discussion on defining digital communication futures, as a theme that connects interdisciplinary practices, focusing particularly on issues of communication and its impact on creative industries .

As governments and policy makers take advantage of information and communication technologies, leaders must understand how to navigate the ever-shifting landscape of modern technologies in order to be most effective in enacting change and leading their constituents. The Handbook of Research on Advanced ICT Integration for Governance and Policy Modeling builds on the available literature, research, and recent advances in e-governance to explore advanced methods and applications of digital tools in government. This collection of the latest research in the field presents an essential reference for academics, researchers, and advanced-level students, as well as government leaders, policy makers, and experts in international relations.

These proceedings represent the work of authors at the 13th European

Conference on e-Government (ECEG 2013). The Conference this year is hosted by the University of Insubria in Como, Italy. The Conference Chair is Professor Walter Castelnovo and the Programme Chair is Professor Elena Ferrari, both are from the Department of Theoretical and Applied Sciences at the University of Insubria. The opening keynote address is given by Dr Gianluca Misuraca from the European Commission, Joint Research Centre, Institute for Prospective Technological Studies, Seville, Spain and Gianluca is addressing the topic "eGovernment: Past, Present & Future: A policy-research perspective for renewing governance in the digital age." The second day of the conference is opened by Dr Antonio Cordella from the London School of Economics, London, UK, who will talk about "Public value creation: the new challenge for e-government policies." ECEG brings together, researchers, Government officials and practitioners in the area of e-Government from around the world. Participants are able to share their research findings and explore the latest developments and trends in the field which can then be disseminated to the wider community. With an initial submission of 153 abstracts, after the double blind, peer review process there are papers published in these Conference Proceedings from 40 countries including Australia, Austria, Belgium, Brazil, Canada, China, Costa Rica, Croatia, Denmark, Egypt, Germany, Greece, India, Iran, Iraq, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malaysia, Netherlands, New Zealand, Norway, Pakistan, Poland, Romania, Russia, Saudi Arabia, Serbia, Slovenia, South Africa, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, UK and USA. This will ensure a very interesting two days.

2014 marks the 100th anniversary of the declaration of the First World War, and with it comes a deluge of books, documentaries, feature films and radio programs. We will hear a great deal about the horror of the battlefield. Bourke acknowledges wider truths: war is unending and violence is deeply entrenched in our society. But it doesn't have to be this way. This book equips readers with an understanding of the history, culture and politics of warfare in order to interrogate and resist an increasingly violent world. *Wounding the World* investigates the ways that violence and war have become internalized in contemporary human consciousness in everything from the way we speak, to the way our children play with one another, to the way that we ascribe social characteristics to our guns and other weapons. With a remarkable depth of insight, Bourke argues for a radical overhaul of our collective stance towards militarism from one that simply aims to reduce violence against people to one that would eradicate all violence. Her message is judicious and vital: knowledge about weapons and the violence they bring has simply become too important to cast aside or leave to the experts. This proceedings volume of InCoTEPD 2018 covers many ideas for handling a wide variety of challenging issues in the field of education. The outstanding ideas dealing with these issues result in innovation of the system. There are many innovation strategies resulting from recent research that are discussed in this book. These strategies will become the best starting points to solve current and

future problems. This book provides an in-depth coverage of educational innovation developments with an emphasis on educational systems, formal or informal education strategies, learning models, and professional teachers. Indeed, those developments are very important to be explored for obtaining the right way of problem-solving. Providing many ideas from the theoretical foundation into the practice, this book is versatile and well organized for an appropriate audience in the field of education. It is an extremely useful reference for students, teachers, professors, practitioners, and government representatives in many countries.

As mobile technology becomes much more prominent in the world, its effect on the social, political, and economic realms cannot be ignored. Interdisciplinary approaches towards re-examining the prevalence of communication technologies are essential for industry professionals' development. *Interdisciplinary Mobile Media and Communications: Social, Political, and Economic Implications* sheds light on emerging disciplines in multimedia technologies and discusses the changes, chances, and challenges in the mobile world. Areas such as mobile governance, mobile healthcare, and mobile identity are examined, along with their social, political, and economic implications. Serving as a reconnection between academia and industry, this book will be useful for students, professors, researchers, and policy-makers of mobile media and communications.

Business transactions and partnerships across borders have become easier than ever due to globalization and global digital connectivity. As part of this shift in the business sphere, managers, executives, and strategists across industries must acclimate themselves with the challenges and opportunities for conducting business globally. *International Business: Concepts, Methodologies, Tools, and Applications* presents the latest research innovations focusing on cross-cultural communications and training, international relations, multinational enterprises, outsourcing, international business strategies, and competitive advantage in the global marketplace. This publication is an exhaustive multi-volume work essential to academic and corporate libraries who serve researchers, scholars, business executives and professionals, and graduate-level business students.

This is the first of a two-volume set (CCIS 373 and CCIS 374) that constitutes the extended abstracts of the posters presented during the 15th International Conference on Human-Computer Interaction, HCII 2013, held in Las Vegas, USA, in July 2013, jointly with 12 other thematically similar conferences. The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The extended abstracts were carefully reviewed and selected for inclusion in this two-volume set. The papers included in this volume are organized in the following topical sections: HCI design approaches, methods and techniques; usability methods, techniques and studies; universal access and eInclusion; multimodal and ambient interaction; cognitive and psychological aspects of

interaction; perception and interaction; ergonomic and human modelling issues; capturing gaze, biosignals and brainwaves; development environments; product design, marketing and advertisement.

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Providing insight into the background, theory and practical applications of Universal Design for Learning (UDL), *Transforming Higher Education through Universal Design for Learning: An International Perspective* examines and shares best practice in UDL implementation worldwide to provide strategies for strengthening student accessibility, engagement and learning outcomes through the development of flexible learning environments. Drawing upon insightful, research-based contributions from educators and student service specialists in Australia, Belgium, Brazil, Canada, Ireland, Israel, Norway, South Africa, Spain, the UK and all across the USA, this book: considers diversity in the form of disability, minority ethnic groups, gender identities, first generation university students and varying socio-economic backgrounds; brings together key thinkers and actors in the field of UDL and expertly maps its practices to the higher educational domain; explores the multiple means of representation, expression and engagement that combine to create a successful UDL framework. Each chapter not only provides a different perspective of how UDL has helped meet the needs of all students to ensure that education is accessible, culturally responsive and socially just, but also considers how this can then be implemented into higher education environments the world over. This book is a crucial read for those who want to make a positive difference in higher education provision and outcomes.

Together with the development of transformative technologies that epitomize globalization, the ongoing movements of people across borders and other socio-economic pressures are creating a fast-changing business environment that is difficult for business to understand, let alone control. Dominant social expectations that immigrants should seek to adopt an assimilationist socialization path towards the host country's mainstream are contradicted by minority ethnic group resilience. There is no evidence that these groups naturally disappear within the cultural and behavioural contexts of their adopted countries. Since ethnic minority consumers cannot be expected to assimilate, then they maintain some significant degree of unique ethnicity related consumer characteristics that convert into threats and opportunities for business. The inherent socialisation process also provides opportunities for ethnic entrepreneurship and for proliferation of ethnic minority business. Following from the extensive examination of scholarly perspectives of ethnic marketing theory, there is an acknowledged and marked divide between theoretical exhortations and what is done in practice, a relative oversight of the implications of mixed embedded markets, and a propensity to overlook the crucial role played by ethnic entrepreneurship and ethnic networks. Opportunity valuations are difficult to enact due to a lack of intelligence about ethnic markets. Variable sentiment about the future of ethnic marketing links to different predictions on how the drivers of globalization will impact on the acculturation paths of ethnic minorities. Keeping a focus on the ethnic group as the unit of analysis, combining ethnic marketing and ethnic entrepreneurship theories provides intelligence about contemporary ethnic marketing and practice perspectives. The ultimate objective is to reduce the theory-practice divide through the development of a collaborative framework between business and scholars that converts into theory-in-use.

This volume brings together a selection of papers proposed for the Proceedings of the 42nd Computer Applications and Quantitative Methods in Archaeology conference (CAA), hosted at Paris 1 Pantheon-Sorbonne University from 22nd to 25th April 2014. This book presents the most interesting talks given at ISSE 2015 – the forum for the interdisciplinary discussion of the key European Commission security objectives and policy directions. The topics include: · Encrypted Communication · Trust Services, eID and Cloud Security · Industrial Security and Internet of Things · Cybersecurity, Cybercrime, Critical Infrastructures · BYOD and Mobile Security · Regulation and Policies · Biometric Applications Adequate information security is one of the basic requirements of all electronic business processes. It is crucial for effective solutions that the possibilities offered by security technology can be integrated with the commercial requirements of the applications. The reader may expect state-of-the-art: best papers of the Conference ISSE 2015.

The dramatic advancement of cellphone technology has fundamentally changed our daily lives. Smartphones and their applications have created new capital for information and communication technology corporations and changed the way people communicate. Because of an interesting awareness of the significance for digital economy and people's daily culture, many countries, from the U.S. to China, have massively invested in the smartphone industries since the early 21st century. Among them, South Korea has become one of the centers for technology development and digital culture, although the country was once lagging behind in the penetration of the phones and their apps. Yet within the last few years, the country has taken a big step toward their goal of becoming a 'mobile game wonderland' by appropriating smartphones and it now exists as a curious test-bed for the future of smartphone technology. Smartland Korea, as the first attempt to comprehensively analyze mobile communication in the context of Korean smartphones, looks into a largely neglected focus of inquiry, a localized mobile landscape, with particular reference to young Koreans' engagement with their devices and applications. Dal Yong Jin focuses not only on the celebratory achievement of technological advancement, but also the significance of social milieu in the development of the smartphones. He situates the emergence of smartphones within the growth of mobile technologies and overall telecommunications industries embedded in Korea's information and communication technologies. The book examines the technology's innovation and the evolution, the digital economy through the lens of political economy, and the youth culture embedded in the Korean smartphone context.

This book gathers a diverse range of novel research on modeling innovation policies for sustainable economic development, based on a selection of papers from a conference on modeling innovation systems and technologies (MIST). It aims at encouraging interdisciplinary and comparative approaches, bringing together researchers and professionals interested in sustainable economic, technological development and open innovation, as well as their dissemination and practical application. The respective contributions explore a variety of topics and cases, including regional innovation policy, the effects of open innovation on

firms, innovation and sustainability in tourism, and the use of information and communication technologies. All chapters share a strong focus on new research and innovation methodologies, in keeping with the Experimentation and Application Research (EAR) and Open Innovation 2.0 principles.

This book constitutes the refereed proceedings of the 15th IFIP WG 5.5 Working Conference on Virtual Enterprises, PRO-VE 2014, held in Amsterdam, The Netherlands, in October 2014. The 73 revised papers were carefully selected from 190 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications, with a particular focus on the following areas in support of smart networked environments: behavior and coordination; product-service systems; service orientation in collaborative networks; engineering and implementation of collaborative networks; cyber-physical systems; business strategies alignment; innovation networks; sustainability and trust; reference and conceptual models; collaboration platforms; virtual reality and simulation; interoperability and integration; performance management frameworks; performance management systems; risk analysis; optimization in collaborative networks; knowledge management in networks; health and care networks; and mobility and logistics.

This book provides a comprehensive assessment of the innovation system of the Netherlands, focusing on the role of government and including concrete recommendations on how to improve policies that affect innovation and R&D performance.

This book provides a collection of critical pieces that support the idea that good teaching and learning of geography in fieldwork and using technology should consider the dimensions of curriculum design, instructional design and resource provision, as well as assessment for such learning activities. Further, it clearly describes the thinking, experiences and critical comments concerning two broad areas of learning outside the traditional classroom – in the field and with technology.

This book reports on a novel and comprehensive approach to the uptake of ICT in Schools. It focuses on key questions, pedagogically sound ways of introducing ICT, new technical artifacts supporting the approach, the evaluation in a large-scale validator, and future work. While many innovations in Technology Enhanced Learning (TEL) have emerged over the last two decades, the uptake of these innovations has not always been very successful, particularly in schools. The transition from proof of concept to integration into learning activities has been recognized as a bottleneck for quite some time. This major problem, which is affecting many TEL stakeholders, is the focus of this book which focuses on developing a more effective and efficient approach based on more than 2500 pilots in European classrooms. Teachers, head teachers, and policy makers may benefit from reading how novel learning scenarios can be elaborated, adapted to a local context, and implemented in the classroom; how new technologies can

support this process for teachers and their national/regional communities; how teachers and other stakeholders can be educated in such a re-engineering process; how the approach can be scaled up through MOOCs, ambassador schemes, and train-the-trainer programs; how future classroom labs can inspire teachers, head teachers, and policy makers; how teachers and, above all, learners can become more engaged in learning through the adoption of the iTEC approach. Readers with a more technical focus may also be interested in the discussion of recommender systems, the flexible provision of resources and services, the deployment of the cloud in schools, and systems for composing technological support for lesson plans.

This book offers a new alternative to understanding the relationship between China and Africa. Here, the author not only explores the changing nature of Ethiopia's internal politics as a result of Chinese investment and commercial links, but also compellingly questions the existing state-centric macro or strategic investigation of China-Africa relations. By thoroughly reviewing and deploying the 'second image reversed' approach and the relational concept of state power analytical approaches, Ziso challenges the Western-centric Weberian conceptualization of state. This volume presents an eclectic approach to interpret the state transformation in Ethiopia in light of Chinese capital, arguing for a "state in society" framework which does not treat the state as a unitary black box. This analysis challenges the conventional binary staple which is often framed on whether China is the new imperialist power plundering Africa's resources or is Africa's historically all-weather friend. This volume offers an original contribution to knowledge on China's relations with Ethiopia in particular, and with Africa in general.

Rapid advances in information and communication technology (ICT) continue to create tremendous opportunities for economic and social gains in the world's poorest areas. A key infrastructure of knowledge-based economies. ICT is a driving force for rapidly growing new sectors. The Strategy 2020 of the Asian Development Bank (ADB) reinforces the importance of drawing on ICT to enhance development in Asia and the Pacific. In line with Strategy 2020, ADB's 2013 ICT for Development Strategy and with the support of the Republic of Korea's e-Asia and Knowledge Partnership Fund (EAKPF), this study examines and identifies opportunities for promoting ICT in ADB operations.

The 1971 Bangladesh genocide is an example of extreme barbarism around the world. Even though it is yet to be internationally recognized, the people of Bangladesh started receiving legal justice long after 38 years followed by the establishment of the International Crimes Tribunal, Bangladesh (ICT-BD) in 2010. For the very first time a thorough glimpse of history of Bangladesh genocide in line with the trials of the local collaborators has been highlighted in this book. The first 20 trial cases of the ICT-BD have been meticulously analyzed which include all the landmark cases concerning prosecution of the most notorious local collaborators of Bangladesh. It is worth mentioning that this book is written by a Prosecutor of the ICT-BD who herself is a very much part of its trial process. It is indeed a unique reference book for academics, practitioners, researchers and students.

Digital technologies are spreading rapidly, but digital dividends--the broader benefits of faster growth, more jobs, and better services--are not. If more than 40 percent of adults in East Africa pay their utility bills using a mobile phone, why can't others around the world do the same? If 8

million entrepreneurs in China--one third of them women--can use an e-commerce platform to export goods to 120 countries, why can't entrepreneurs elsewhere achieve the same global reach? And if India can provide unique digital identification to 1 billion people in five years, and thereby reduce corruption by billions of dollars, why can't other countries replicate its success? Indeed, what's holding back countries from realizing the profound and transformational effects that digital technologies are supposed to deliver? Two main reasons. First, nearly 60 percent of the world's population are still offline and can't participate in the digital economy in any meaningful way. Second, and more important, the benefits of digital technologies can be offset by growing risks. Startups can disrupt incumbents, but not when vested interests and regulatory uncertainty obstruct competition and the entry of new firms. Employment opportunities may be greater, but not when the labor market is polarized. The internet can be a platform for universal empowerment, but not when it becomes a tool for state control and elite capture. The World Development Report 2016 shows that while the digital revolution has forged ahead, its 'analog complements'--the regulations that promote entry and competition, the skills that enable workers to access and then leverage the new economy, and the institutions that are accountable to citizens--have not kept pace. And when these analog complements to digital investments are absent, the development impact can be disappointing. What, then, should countries do? They should formulate digital development strategies that are much broader than current information and communication technology (ICT) strategies. They should create a policy and institutional environment for technology that fosters the greatest benefits. In short, they need to build a strong analog foundation to deliver digital dividends to everyone, everywhere.

ICT Update is a bimonthly printed and on-line magazine (<http://ictupdate.cta.int>) and an accompanying e-mail newsletter published by CTA. This issue focuses on linking the farmers to markets.

This collection of expert articles explores the development drivers of new technology-based firms and projects. It provides perspectives for an in-depth understanding of how technological inventions lead to the creation of new and sustainable companies or business units. The authors address methods and concepts that help technology-based start-ups and entrepreneurial projects successfully develop innovative products and services.

If mobile technologies are to be effectively used in education, how do we best implement sustainable mobile solutions for teaching and learning? The aim of this handbook is to support educators and policy makers who are investing in innovations in digital education to develop effective and sustainable mobile learning solutions for higher education environments. Authors from sixteen countries across the Asia-Pacific region have collaborated to share their experiences with developing and implementing mobile learning initiatives. These projects focus on a variety of aspects of mobile learning innovation, from the trial adoption of existing social media platforms on mobile devices and the development of specialised applications or mobile learning systems, to the large-scale, interuniversity implementation of technologies and pedagogies to support mobile learning. Each chapter addresses challenges and solutions at one or more levels of mobile learning innovation within the education system, encompassing the student perspective, the educator perspective, technical processes, policies and organisational strategy, and leadership. The book also offers a unique perspective on the integration of mobile learning innovations within the educational, political and cultural environments of Asia-Pacific countries.

This book gathers the proceedings of the 7th International Conference, with the theme Culture and Tourism in a Smart, Globalized and Sustainable World, held on Hydra Island, Greece, on June 17-19, 2020, published with the support of the International Association of Cultural and Digital Tourism. Highlighting the contributions made by numerous writers to the advancement of tourism research, this book presents a critical academic discourse on sustainable practices

in the smart tourism context, improving readers' understanding of, and stimulating future debates in, this critical area. In addition to the knowledge economy and the concept of smart destinations, the book addresses new modes of tourism management and development, as well as emerging technologies, including location-based services, the Internet of things, smart cities, mobile services, gamification, digital collections and the virtual visitor, social media, social networking, and augmented reality.

This book captures the state of the art in cloud technologies, infrastructures, and service delivery and deployment models. The work provides guidance and case studies on the development of cloud-based services and infrastructures from an international selection of expert researchers and practitioners. Features: presents a focus on security and access control mechanisms for cloud environments, analyses standards and brokerage services, and investigates the role of certification for cloud adoption; evaluates cloud ERP, suggests a framework for implementing "big data" science, and proposes an approach for cloud interoperability; reviews existing elasticity management solutions, discusses the relationship between cloud management and governance, and describes the development of a cloud service capability assessment model; examines cloud applications in higher education, including the use of knowledge-as-a-service in the provision of education, and cloud-based e-learning for students with disabilities.

After a decade, internet now reaches the Asian region as well as African countries intensively while USA, Canada and Europe are focusing newer inventions. Within the Asian region it exists considerably another technological gap among countries. The countries with higher income such as Japan, Singapore, South Korea has succeeded in implementing ICT in all social and economic areas. The rest of the countries, including China, Malaysia, Thailand, Indonesia, Philippines, Vietnam, Laos, Cambodia, are far behind in information technology. Nevertheless, it is necessary for all nations, whether developed or developing, to keep on nurturing ICT development to be a part of connected world. The question is how a nation can successfully adopt ICT and benefit from all advantages at best. Unfortunately, there is no common guideline for all countries. Without identifying specific factors of each country and a lot of effort made by government, no country can achieve high ICT performance in the long run. The purpose of this paper is three-fold: To identify the characteristics and political options of a country, that would affect the success of its ICT adoption. To identify clusters of nations upon the international ICT indices and GNI per capita To provide an overall guideline that incorporates these nations toward developing higher ICT indices. This paper shows income level and social background can play very important roles in country's ICT development.

This volume features contributions from a conference held in Lusaka, Zambia, to explore the role and prospects of broadband in Africa as a video platform—with emphasis on the strategies and building blocks for deployment and advancement. While it may seem that such networks and their applications are not a realistic scenario for developing countries, it would be short-sighted and

economically dangerous to ignore the emerging trends. The pace of introduction of next-generation networks in industrialized countries is rapid and the developing world will not be able to stand aside. The risks of falling behind are great and in any country there will be elements of business and society who wish to forge ahead. Policymakers and network architects need to be prepared. Media companies and broadcasters, in particular, must be alert to the new developments as should be medical and educational institutions. The availability of advanced high-speed business application tools in a country will affect its participation in international transactions and its economic growth. This volume features contributions from industry leaders, policymakers and scholars, representing a variety of perspectives, including technology and infrastructure management, economic development, marketing, education and health. The authors collectively discuss how broadband deployment as a platform with sufficient speed for video may be encouraged by public policy and regulation and how investment in broadband for this and related purposes can improve the quality of life and experience in Sub Saharan Africa in media and data, while being a financeable, commercially sound business.

In more ways than one, assistive technologies can have a profound impact on humans and their operations within society. Understanding these emerging technologies is crucial to their effective use in improving human lives. *Human-Computer Interfaces and Interactivity: Emergent Research and Applications* aims to address the main issues of interest within the culture and design of interactive systems for individuals living with disabilities. This premier reference work addresses a range of approaches including, but not limited to, the conceptual, technological, and design issues related to human-computer interaction, issues of interest to a range of individuals including academics, university teachers, researchers, post-graduate students, public and private institutions, and HCI developers and researchers.

Microsystems, smart textiles, telemedicine, mobile computing, smart implants, sensor-controlled medical devices, and innovative sensor and actuator principles and techniques have become important enablers, not only for monitoring, diagnosis and treatment in both inpatient and outpatient care, but also for personalized, preventive, predictive participative systems medicine. This book contains the proceedings of pHealth 2014, the 11th in a series of successful international conferences on wearable or implantable micro and nano technologies for personalized medicine, held in Vienna, Austria, in June 2014. This conference combined the presentation of emerging principles, future visions and use with a careful analysis of lessons learned from international and national research and development activities and practical solutions. Included here are the keynotes, as well as the oral presentations and poster presentations selected after having been checked by three independent reviewers for inclusion in the conference. The new EU Framework Program for Research and Innovation, Horizon 2020, addressing pHealth implementation by focusing on technology

