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Web Information Systems and Technologies Dec 30 2019 This book contains the thoroughly refereed and revised best papers from the 9th International Conference on Web Information Systems and Technologies, WEBIST 2013, held in Aachen, Germany, in May 2013, organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), and co-organized by the RWTH Aachen University. The 15 papers presented in this book were carefully

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reviewed and selected from 143 submissions. The papers were selected from those with the best reviews also taking into account the quality of their presentation at the conference. The papers are grouped into parts on Internet technology, Web interfaces and applications, society, e-business and e-government, Web intelligence, and mobile information systems.

Histories of Technology, the Environment and Modern Britain Dec 02 2022 Histories of Technology, the Environment and Modern Britain brings together historians with a wide range of interests to take a uniquely wide-lens view of how technology and the environment have been intimately and irreversibly entangled in Britain over the last 300 years. It combines, for the first time, two perspectives with much to say about Britain since the industrial revolution: the history of technology and environmental history. Technologies are modified environments, just as nature is to varying extents engineered. Furthermore, technologies and our living and non-living environment are both predominant material forms of organisation - and self-organisation - that surround and make us. Both have changed over time, in intersecting ways. Technologies discussed in the collection include bulldozers, submarine cables, automobiles, flood barriers, medical devices, museum displays and biotechnologies. Environments investigated include bogs, cities, farms, places of natural beauty and pollution, land and sea. The book explores this diversity but also offers an integrated framework for understanding these intersections.

New Technologies for Human Rights Law and Practice Sep 30 2022 Provides a roadmap for understanding the relationship between technology and human rights law and practice. This title is also available as Open Access.

Future Powertrain Technologies May 03 2020 Among the various factors greatly influencing the development process of future powertrain technologies, the trends in climate change and

digitalization are of huge public interest. To handle these trends, new disruptive technologies are integrated into the development process. They open up space for diverse research which is distributed over the entire vehicle design process. This book contains recent research articles which incorporate results for selecting and designing powertrain topology in consideration of the vehicle operating strategy as well as results for handling the reliability of new powertrain components. The field of investigation spans from the identification of ecologically optimal transformation of the existent vehicle fleet to the development of machine learning-based operating strategies and the comparison of complex hybrid electric vehicle topologies to reduce CO2 emissions.

Water Societies and Technologies from the Past and Present Jul 05 2020 Today our societies face great challenges with water, in terms of both quantity and quality, but many of these challenges have already existed in the past. Focusing on Asia, *Water Societies and Technologies from the Past and Present* seeks to highlight the issues that emerge or re-emerge across different societies and periods, and asks what they can tell us about water sustainability. Incorporating cutting-edge research and pioneering field surveys on past and present water management practices, the interdisciplinary contributors together identify how societies managed water resource challenges and utilised water in ways that allowed them to evolve, persist, or drastically alter their environment. The case studies, from different periods, ancient and modern, and from different regions, including Egypt, Sri Lanka, Cambodia, Southwest United States, the Indus Basin, the Yangtze River, the Mesopotamian floodplain, the early Islamic city of Sultan Kala in Turkmenistan, and ancient Korea, offer crucial empirical data to readers interested in comparing the dynamics of water management practices across time and space, and to those who wish to understand water-related issues through conceptual and quantitative models of water use. The case studies also

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challenge classical theories on water management and social evolution, examine and establish the deep historical roots and ecological foundations of water sustainability issues, and contribute new grounds for innovations in sustainable urban planning and ecological resilience.

Finnish Innovations and Technologies in Schools Jan 23 2022 This book combines several perspectives on the steps the Finnish educational system has taken to provide students with the skills and competences needed for living in today's society and in the future. The ecosystem is used as a metaphor for the educational system. The Finnish system aims to achieve sustainable education by ensuring that the system is simultaneously interconnected and open to transformations. The book describes how a flexible curriculum system is succeeding without the pressures of high-stake testing. It also illustrates how the ongoing curriculum reform of the basic education is working. The book brings together knowledge gained in schools through the cooperation of researchers, teachers, school principals, the public sector, and private companies. The book presents case studies of technology integration aimed at crossing boundaries in formal and informal learning settings, locally and globally. The contributors address 21st-century needs and requirements through learner-driven knowledge creation, collaboration, networking, and digital literacies. It opens new scenarios of how to apply digital storytelling and games connecting fun, motivation, and learning. The strong message is that, through collaboration and networking, we can create an educational ecosystem that supports different learners.

Modeling Innovation Sustainability and Technologies Jan 29 2020 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

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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.

Emerging Photovoltaic Technologies Dec 10 2020 "Solar photovoltaics (PV) is the fastest-growing energy technology in the world today and an important tool for mitigating climate change. Crystalline silicon PV modules are now affordable, efficient, reliable, and dominant in the global market. So why do researchers and entrepreneurs continue to pursue new PV technologies? This book explores how market forces expose opportunities for new solar technologies. The authors explain how two emerging thin-film PV technologies--metal halide perovskites and colloidal quantum dots--can benefit from rapid scalability, reduced manufacturing and installation costs, and new modes of deployment. This book is targeted at students, early-career researchers, and industry newcomers seeking to maximize their impact in the field of emerging thin-film solar photovoltaics." -
- Prové de l'editor.

Creativity in Intelligent Technologies and Data Science Jan 11 2021 This two-volume set constitutes the proceedings of the Third Conference on Creativity in Intellectual Technologies and Data Science, CIT&DS 2019, held in Volgograd, Russia, in September 2019. The 67 full papers, 1 short paper and 3 keynote papers presented were carefully reviewed and selected from 231 submissions. The papers are organized in topical sections in the two volumes. Part I: cyber-physical

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systems and Big Data-driven world. Part II: artificial intelligence and deep learning technologies for creative tasks; intelligent technologies in social engineering.

Compendium of Sanitation Systems and Technologies Jun 15 2021

Digital Library Technologies Feb 09 2021 Digital libraries (DLs) have introduced new technologies, as well as leveraging, enhancing, and integrating related technologies, since the early 1990s. These efforts have been enriched through a formal approach, e.g., the 5S (Societies, Scenarios, Spaces, Structures, Streams) framework, which is discussed in two earlier volumes in this series. This volume should help advance work not only in DLs, but also in the WWW and other information systems. Drawing upon four (Kozievitch, Murthy, Park, Yang) completed and three (Elsherbiny, Farag, Srinivasan) in-process dissertations, as well as the efforts of collaborating researchers and scores of related publications, presentations, tutorials, and reports, this book should advance the DL field with regard to at least six key technologies. By integrating surveys of the state-of-the-art, new research, connections with formalization, case studies, and exercises/projects, this book can serve as a computing or information science textbook. It can support studies in cyber-security, document management, hypertext/hypermedia, IR, knowledge management, LIS, multimedia, and machine learning. Chapter 1, with a case study on fingerprint collections, focuses on complex (composite, compound) objects, connecting DL and related work on buckets, DCC, and OAI-ORE. Chapter 2, discussing annotations, as in hypertext/hypermedia, emphasizes parts of documents, including images as well as text, managing superimposed information. The SuperIDR system, and prototype efforts with Flickr, should motivate further development and standardization related to annotation, which would benefit all DL and WWW users. Chapter 3, on ontologies, explains how they help with browsing, query expansion, focused crawling, and classification. This chapter connects DLs with the

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Semantic Web, and uses CTRnet as an example. Chapter 4, on (hierarchical) classification, leverages LIS theory, as well as machine learning, and is important for DLs as well as the WWW. Chapter 5, on extraction from text, covers document segmentation, as well as how to construct a database from heterogeneous collections of references (from ETDs); i.e., converting strings to canonical forms. Chapter 6 surveys the security approaches used in information systems, and explains how those approaches can apply to digital libraries which are not fully open. Given this rich content, those interested in DLs will be able to find solutions to key problems, using the right technologies and methods. We hope this book will help show how formal approaches can enhance the development of suitable technologies and how they can be better integrated with DLs and other information systems.

Emerging Information Resources Management and Technologies Apr 01 2020 "This book supplies the industry leaders, practicing managers, researchers, experts, and educators with the most current findings on undertaking the operation of the latest information technology reforms, developments, and changes. It presents the issues facing modern organizations and provides the most recent strategies in overcoming the obstacles of the ever-evolving information management and utilization industry"--Provided by publisher.

Virtual Collaborative Writing in the Workplace: Computer-Mediated Communication Technologies and Processes Jun 27 2022 "This book investigates the use of computer-mediated communication technologies and collaborative processes to facilitate effective interdependent collaboration in writing projects, especially in virtual workplace settings"--Provided by publisher.

Advances in Internet, Data and Web Technologies Oct 20 2021 This book presents original contributions on the theories and practices of emerging Internet, Data and Web technologies and

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their applications in businesses, engineering and academia. As a key feature, it addresses advances in the life-cycle exploitation of data generated by digital ecosystem technologies. The Internet has become the most proliferative platform for emerging large-scale computing paradigms. Among these, Data and Web technologies are two of the most prominent paradigms, manifesting in a variety of forms such as Data Centers, Cloud Computing, Mobile Cloud, Mobile Web Services, and so on. These technologies altogether create a digital ecosystem whose cornerstone is the data cycle, from capturing to processing, analysis and visualization. The need to investigate various research and development issues in this digital ecosystem has been made even more pressing by the ever-increasing demands of real-life applications, which are based on storing and processing large amounts of data. Given its scope, the book offers a valuable asset for all researchers, software developers, practitioners and students interested in the field of Data and Web technologies.

Green Technologies to Improve the Environment on Earth Sep 18 2021 The aim of this book is to compile some of the green technologies applied to improve the environment on Earth. The success of these technologies is built from humility; from this ethical principle, the concept of honest broker is defined in this work. Some of the biggest environmental problems, such as soil pollution by heavy metals and pollution from the mining industry and massive coal plants, are also addressed. Additional subjects depicted here include geothermal energy, plasma technology, and the correct use of electric vehicles, and demonstrate a promising scenario to diminish greenhouse gases. Likewise, caring for wildlife is essential; the correct use of certain technologies depicted here can contribute to their conservation.

Smart Grids - Fundamentals and Technologies in Electricity Networks Sep 26 2019 Efficient transmission and distribution of electricity is a fundamental requirement for sustainable

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development and prosperity. The world is facing great challenges regarding the reliable grid integration of renewable energy sources in the 21st century. The electric power systems of the future require fundamental innovations and enhancements to meet these challenges. The European Union's "Smart Grid" vision provides a first overview of the appropriate deep-paradigm changes in the transmission, distribution and supply of electricity. The book brings together common themes beginning with Smart Grids and the characteristics of new power plants based on renewable energy and /or highly efficient generation principles. It covers the advanced technologies applied today in the transmission and distribution networks and innovative solutions for maintaining today's high power quality under the challenging conditions of large-scale shares of volatile renewable energy sources in the annual energy balance. Besides considering the new primary and secondary technology solutions and control facilities for the transmission and distribution networks, prospective market conditions allowing network operators and the network users to gain benefits are also discussed. The growing role of information and communication technologies is investigated. The importance of new standards is underlined and the current international efforts in developing a consistent set of standards are described in detail. The presentation of international experiences to apply novel Smart Grid solutions to the practice of network operation concludes this book. The authors of the book worked for many years to develop Smart Grid solutions within national and international projects and to introduce them in the practice of network operations.

Grid Technologies Mar 13 2021 Grid computing denotes an approach to utilize distributed resources that are not subject to centralized control. This approach fulfils computing requirements arising within the context of current high-performance computing applications, especially in the field of computational science and engineering. This idea is analogous to an electric power network (grid),

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where power generators are distributed, but the users are able to access electric power without bothering about the source of energy and its location. Current grid enabling technologies consist of stand-alone architectures. A typical architecture provides middleware access to various services at different hierarchical levels. Computational grids enable the sharing, selection and aggregation of a wide variety of geographically distributed computational resources (such as supercomputers, clusters of computers, storage systems, data sources, instruments, people, etc.) and present them as a single, unified resource for solving large-scale computations and data intensive computing applications (e.g., molecular modeling for drug design, brain activity analysis, high energy physics, etc.). Grid computing is a new emerging research area aiming to promote the development and advancement of technologies that provide seamless and scalable access to wide-area distributed resources.

Assessing Medical Technologies Apr 13 2021 New drugs, new devices, improved surgical techniques, and innovative diagnostic procedures and equipment emerge rapidly. But development of these technologies has outpaced evaluation of their safety, efficacy, cost-effectiveness, and ethical and social consequences. This volume, which is "strongly recommended" by The New England Journal of Medicine "to all those interested in the future of the practice of medicine," examines how new discoveries can be translated into better care, and how the current system's inefficiencies prevent effective health care delivery. In addition, the book offers detailed profiles of 20 organizations currently involved in medical technology assessment, and proposes ways to organize U.S. efforts and create a coordinated national system for evaluating new medical treatments and technology.

Learning Theory and Online Technologies Jul 17 2021 Learning Theory and Online Technologies

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offers a powerful overview of the current state of elearning, a foundation of its historical roots and growth, and a framework for distinguishing among the major approaches to elearning. It effectively addresses pedagogy (how to design an effective online environment for learning), evaluation (how to know that students are learning), and history (how past research can guide successful online teaching and learning outcomes). An ideal textbook for undergraduate education and communication programs, and Educational Technology Masters, PhD, and Certificate programs, readers will find Learning Theory and Online Technologies provides a synthesis of the key advances in elearning theory, the key frameworks of research, and clearly links theory and research to successful learning practice.

Handbook of Research on Smart Technology Applications in the Tourism Industry Aug 06 2020 In today's modernized society, certain technologies have become more applicable within many professional fields and are much easier to implement. This includes the tourism industry, where smart technology has provided a range of new marketing possibilities including more effective sales tactics and delivering a more personalized customer experience. As the scope of business analytics continues to expand, professionals need research on the various applications of smart technology within the field of tourism. The Handbook of Research on Smart Technology Applications in the Tourism Industry is an essential reference source that discusses the use of intelligent systems in tourism as well as their influence on consumer relationships. Featuring research on topics such as digital advertising, wearable technology, and consumer behavior, this book is ideally designed for travel agents, tour developers, restaurateurs, hotel managers, tour directors, airlines, marketers, researchers, managers, hospitality professionals, policymakers, business strategists, researchers, academicians, and students seeking coverage on the use of smart technologies in tourism.

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Technology in the Industrial Revolution Jan 03 2023 Places the British Industrial Revolution in global context, providing a fresh perspective on the relationship between technology and society.

Collaborative and Distributed E-Research: Innovations in Technologies, Strategies and Applications

Dec 22 2021 "This book offers insight into practical and methodological issues related to collaborative e-research and furthers readers understanding of current and future trends in online research and the types of technologies involved"--Provided by publisher.

Utilizing Open Source Tools for Online Teaching and Learning: Applying Linux Technologies Oct 27 2019 "This book covers strategies on using and evaluating open source products for online teaching and learning systems"--Provided by publisher.

Technology of the Oppressed Apr 25 2022 How Brazilian favela residents engage with and appropriate technologies, both to fight the oppression in their lives and to represent themselves in the world. Brazilian favelas are impoverished settlements usually located on hillsides or the outskirts of a city. In *Technology of the Oppressed*, David Nemer draws on extensive ethnographic fieldwork to provide a rich account of how favela residents engage with technology in community technology centers and in their everyday lives. Their stories reveal the structural violence of the information age. But they also show how those oppressed by technology don't just reject it, but consciously resist and appropriate it, and how their experiences with digital technologies enable them to navigate both digital and nondigital sources of oppression—and even, at times, to flourish. Nemer uses a decolonial and intersectional framework called *Mundane Technology* as an analytical tool to understand how digital technologies can simultaneously be sites of oppression and tools in the fight for freedom. Building on the work of the Brazilian educator and philosopher Paulo Freire, he shows how the favela residents appropriate everyday technologies—technological artifacts (cell phones, Facebook),

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operations (repair), and spaces (Telecenters and Lan Houses)—and use them to alleviate the oppression in their everyday lives. He also addresses the relationship of misinformation to radicalization and the rise of the new far right. Contrary to the simplistic techno-optimistic belief that technology will save the poor, even with access to technology these marginalized people face numerous sources of oppression, including technological biases, racism, classism, sexism, and censorship. Yet the spirit, love, community, resilience, and resistance of favela residents make possible their pursuit of freedom.

Paperless May 15 2021 Streamline your organization by replacing paper documents with electronic solutions Paperless is one part inspiration and two parts instruction. You will be inspired by real-world case studies as you meet people who have brought paperless change to their organizations. You will learn what worked and how you can apply these experiences to your own work. Meet lawyers, doctors, and business leaders who have transformed their operations with Adobe technology. Also, learn how city, state, and federal governments are saving money and providing better services with paperless solutions. The inspiration is just the beginning. The majority of this book is instruction on Adobe's most important paperless technologies. Each section is full of hands-on demos that will show you how to get real business value from products you may already own. You will learn how to create and use digital signatures, certify PDFs, and integrate dynamic documents with your existing systems. This book explains all you need to know to be on your way to a paperless future. • Read the stories of those who have created today's leading-edge paperless solutions. • Learn how the Federal Government uses certified PDFs and how New York State uses e-Forms to save millions of dollars. • Find out how the Kane County court system takes advantage of PDF forms to protect abuse victims. • See how one doctor is reducing Medicare costs by replacing expensive

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emergency room visits with paperless house calls. • Follow in-depth lessons on Acrobat®, LiveCycle® Designer, LiveCycle® ES/ES2, and InDesign® Server. • Download demos, source code, and sample files to use with the book's exercises (www.paperlessbook.info). "Using real-world examples, such as the ones in J.P. Terry's Paperless, to illustrate how PDF can be used to move from paper to electronic processes is a simple-to-understand, yet very powerful learning tool for business and government alike." — Lori DeFurio, Group Product Manager, Acrobat, Adobe Systems "In Paperless, J.P. Terry weaves the business case and technical implementation into a complete story on how a variety of businesses have benefited from Adobe solutions. This book is an enjoyable read and a must-have reference for automating business processes." — Jeff Stanier, Senior Product Manager, Adobe LiveCycle

Tech Trends in Practice Jul 29 2022 ***BUSINESS BOOK AWARDS - FINALIST 2021*** Discover how 25 powerful technology trends are transforming 21st century businesses How will the latest technologies transform your business? Future Tech Trends in Practice will give you the knowledge of today's most important technology trends, and how to take full advantage of them to grow your business. The book presents 25 real-world technology trends along with their potential contributions to organisational success. You'll learn how to integrate existing advancements and plan for those that are on the way. In this book, best-selling author, strategic business advisor, and respected futurist Bernard Marr explains the role of technology in providing innovative businesses solutions for companies of varying sizes and across different industries. He covers wide-ranging trends and provides an overview of how companies are using these new and emerging technologies in practice. You, too, can prepare your company for the potential and power of trending technology by examining these and other areas of innovation described in Future Tech Trends in Practice: Artificial

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intelligence, including machine and deep learning The Internet of Things and the rise of smart devices Self-driving cars and autonomous drones 3D printing and additive manufacturing Blockchain technology Genomics and gene editing Augmented, virtual and mixed reality When you understand the technology trends that are driving success, now and into the future, you'll be better positioned to address and solve problems within your organisation.

Emerging Cognitive Neuroscience and Related Technologies Jun 03 2020 Emerging Cognitive Neuroscience and Related Technologies, from the National Research Council, identifies and explores several specific research areas that have implications for U.S. national security, and should therefore be monitored consistently by the intelligence community. These areas include: neurophysiological advances in detecting and measuring indicators of psychological states and intentions of individuals the development of drugs or technologies that can alter human physical or cognitive abilities advances in real-time brain imaging breakthroughs in high-performance computing and neuronal modeling that could allow researchers to develop systems which mimic functions of the human brain, particularly the ability to organize disparate forms of data. As these fields continue to grow, it will be imperative that the intelligence community be able to identify scientific advances relevant to national security when they occur. To do so will require adequate funding, intelligence analysts with advanced training in science and technology, and increased collaboration with the scientific community, particularly academia. A key tool for the intelligence community, this book will also be a useful resource for the health industry, the military, and others with a vested interest in technologies such as brain imaging and cognitive or physical enhancers.

The Future of Technology Nov 01 2022 From the industrial revolution to the railway age, through the era of electrification, the advent of mass production, and finally to the information age, the same

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pattern keeps repeating itself. An exciting, vibrant phase of innovation and financial speculation is followed by a crash, after which begins a longer, more stately period during which the technology is actually deployed properly. This collection of surveys and articles from The Economist examines how far technology has come and where it is heading. Part one looks at topics such as the “greying” (maturing) of IT, the growing importance of security, the rise of outsourcing, and the challenge of complexity, all of which have more to do with implementation than innovation. Part two looks at the shift from corporate computing towards consumer technology, whereby new technologies now appear first in consumer gadgets such as mobile phones. Topics covered will include the emergence of the mobile phone as the “digital Swiss Army knife”; the rise of digital cameras, which now outsell film-based ones; the growing size and importance of the games industry and its ever-closer links with other more traditional parts of the entertainment industry; and the social impact of technologies such as text messaging, Wi-Fi, and camera phones. Part three considers which technology will lead the next great phase of technological disruption and focuses on biotechnology, energy technology, and nanotechnology.

Internet of Things and Big Data Technologies for Next Generation Healthcare Aug 30 2022 This comprehensive book focuses on better big-data security for healthcare organizations. Following an extensive introduction to the Internet of Things (IoT) in healthcare including challenging topics and scenarios, it offers an in-depth analysis of medical body area networks with the 5th generation of IoT communication technology along with its nanotechnology. It also describes a novel strategic framework and computationally intelligent model to measure possible security vulnerabilities in the context of e-health. Moreover, the book addresses healthcare systems that handle large volumes of data driven by patients’ records and health/personal information, including big-data-based

knowledge management systems to support clinical decisions. Several of the issues faced in storing/processing big data are presented along with the available tools, technologies and algorithms to deal with those problems as well as a case study in healthcare analytics. Addressing trust, privacy, and security issues as well as the IoT and big-data challenges, the book highlights the advances in the field to guide engineers developing different IoT devices and evaluating the performance of different IoT techniques. Additionally, it explores the impact of such technologies on public, private, community, and hybrid scenarios in healthcare. This book offers professionals, scientists and engineers the latest technologies, techniques, and strategies for IoT and big data.

Learning and Collaboration Technologies: Designing and Developing Novel Learning Experiences Nov 28 2019

The two-volume set LNCS 8523-8524 constitutes the refereed proceedings of the First International Conference on Learning and Collaboration Technologies, LCT 2014, held as part of the 16th International Conference on Human-Computer Interaction, HCII 2014, in Heraklion, Crete, Greece in June 2014, jointly with 13 other thematically similar conferences. The total of 1476 papers and 220 posters presented at the HCII 2014 conferences were carefully reviewed and selected from 4766 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers 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 total of 93 contributions included in the LCT proceedings were carefully reviewed and selected for inclusion in this two-volume set. The 45 papers included in this volume are organized in the following topical sections: design of learning technologies; novel approaches in eLearning; student modeling and learning behavior; supporting problem-based, inquiry-based, project-based and blended learning.

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Assessing the Role of Mobile Technologies and Distance Learning in Higher Education Sep 06 2020

In recent years, the use of information technologies, mobile devices, and social media, along with the evolving needs of students, professionals, and academics, has grown rapidly. New ways of bringing learning content to students, new learning environments, and new teaching practices are necessary to keep up with these changes. *Assessing the Role of Mobile Technologies and Distance Learning in Higher Education* provides a comprehensive understanding of m-learning processes by discussing challenges in higher education and the role of information technologies for effective learning. This reference book offers both real experiences and theoretical input for academicians, professionals, students, practitioners, policymakers, and managers.

Authentic Learning Through Advances in Technologies Nov 20 2021 This book introduces the advanced technologies used for authentic learning, an educational term that refers to a variety of techniques focusing on how students apply the skills and knowledge acquired in school in real-world situations. In the meanwhile, it presents the latest trends and future developments in learning design, learning environment and assessment for authentic learning using advances in technology, this book discusses how technology supports authentic learning and what makes it effective.

Climate-Smart Technologies Oct 08 2020 The book addresses the perceived need for a publication with looks at both, climate smart technologies and the integration of renewable energy and energy efficiency in mitigation and adaptation responses. Based on a set of papers submitted as part of the fifth on-line climate conference (CLIMATE 2012) and a major conference on renewable energy on island States held in Mauritius in 2012, the book provides a wealth of information on climate change strategies and the role of smart technologies. The book has been produced in the context of the project "Small Developing Island Renewable Energy Knowledge and Technology Transfer Network"

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(DIREKT), funded by the ACP Science and Technology Programme, an EU programme for cooperation between the European Union and the ACP region.

Mobile Technologies and Augmented Reality in Open Education Aug 18 2021 Novel trends and innovations have enhanced contemporary educational environments. When applied properly, these computing advances can create enriched learning opportunities for students. Mobile Technologies and Augmented Reality in Open Education is a pivotal reference source for the latest academic research on the integration of interactive technology and mobile applications in online and distance learning environments. Highlighting scholarly perspectives across numerous topics such as wearable technology, instructional design, and flipped learning, this book is ideal for educators, professionals, practitioners, academics, and graduate students interested in the role of augmented reality in modern educational contexts.

Low-tech Magazine 2012-2018 Aug 25 2019 Low-tech Magazine underscores the potential of past and often forgotten technologies and how they can inform sustainable energy practices. Sometimes, past technologies can be copied without any changes. More often, interesting possibilities arise when older technology is combined with new knowledge and new materials, or when past concepts and traditional knowledge are applied to modern technology. Inspiration is also to be found in the so-called “developing” world, where resource constraints often lead to inventive, low-tech solutions.

Human Enhancement Technologies and Our Merger with Machines Mar 25 2022 A cross-disciplinary approach is offered to consider the challenge of emerging technologies designed to enhance human bodies and minds. Perspectives from philosophy, ethics, law, and policy are applied to a wide variety of enhancements, including integration of technology within human bodies, as well as genetic, biological, and pharmacological modifications. Humans may be permanently or

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temporarily enhanced with artificial parts by manipulating (or reprogramming) human DNA and through other enhancement techniques (and combinations thereof). We are on the cusp of significantly modifying (and perhaps improving) the human ecosystem. This evolution necessitates a continuing effort to re-evaluate current laws and, if appropriate, to modify such laws or develop new laws that address enhancement technology. A legal, ethical, and policy response to current and future human enhancements should strive to protect the rights of all involved and to recognize the responsibilities of humans to other conscious and living beings, regardless of what they look like or what abilities they have (or lack). A potential ethical approach is outlined in which rights and responsibilities should be respected even if enhanced humans are perceived by non-enhanced (or less-enhanced) humans as “no longer human” at all.

Handbook of Research on Applying Emerging Technologies Across Multiple Disciplines Nov 08 2020

In recent decades, there has been a groundbreaking evolution in technology. Every year, technology not only advances, but it also spreads throughout industries. Many fields such as law, education, business, engineering, and more have adopted these advanced technologies into their toolset. These technologies have a vastly different effect ranging from these different industries. The Handbook of Research on Applying Emerging Technologies Across Multiple Disciplines examines how technologies impact many different areas of knowledge. This book combines a solid theoretical approach with many practical applications of new technologies within many disciplines. Covering topics such as computer-supported collaborative learning, machine learning algorithms, and blockchain, this text is essential for technologists, IT specialists, programmers, computer scientists, engineers, managers, administrators, academicians, students, policymakers, and researchers.

The Role of Carbon Capture and Storage (CCS) Technologies in a Net-Zero Carbon Future May 27

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Manure Treatment Technologies: Anaerobic Digesters Mar 01 2020

Wastewater Treatment and Reuse Technologies Feb 21 2022 This book is a printed edition of the Special Issue "Wastewater Treatment and Reuse Technologies" that was published in Applied Sciences