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Handbook of Data Visualization - Chun-houh Chen 2007-12-18

Visualizing the data is an essential part of any data analysis. Modern computing developments have led to big improvements in graphic capabilities and there are many new possibilities for data displays. This book gives an overview of modern data visualization methods, both in theory and practice. It details modern graphical tools such as mosaic plots, parallel coordinate plots, and linked views. Coverage also examines graphical methodology for particular areas of statistics, for example Bayesian analysis, genomic data and cluster analysis, as well software for graphics.

Beyond Legacy Code - David Scott Bernstein 2015-08-03

We're losing tens of billions of dollars a year on broken software, and great new ideas such as agile development and Scrum don't always pay off. But there's hope. The nine software development practices in Beyond Legacy Code are designed to solve the problems facing our industry. Discover why these practices work, not just how they work, and dramatically increase the quality and maintainability of any software project. These nine practices could save the software industry. Beyond Legacy Code is filled with practical, hands-on advice and a common-sense exploration of why technical practices such as refactoring and test-first development are critical to building maintainable software. Discover how to avoid the pitfalls teams encounter when adopting these practices, and how to dramatically reduce the risk associated with building software--realizing significant savings in both the short and long term. With a deeper understanding of the principles behind the practices, you'll build software that's easier and less costly to maintain and extend. By adopting these nine key technical practices, you'll learn to say what, why, and for whom before how; build in small batches; integrate continuously; collaborate; create CLEAN code; write the test first; specify behaviors with tests; implement the design last; and refactor legacy code. Software developers will find hands-on, pragmatic advice for writing higher quality, more maintainable, and bug-free code. Managers, customers, and product owners will gain deeper insight into vital processes. By moving beyond the old-fashioned procedural thinking of the Industrial Revolution, and working together to embrace standards and practices that will advance software development, we can turn the legacy code crisis into a true Information Revolution.

The Business of Peace - Jane Nelson 2000

[The Design Thinking Toolbox](#) - Michael Lewrick 2020-04-14

How to use the Design Thinking Tools A practical guide to make innovation happen The Design Thinking Toolbox explains the most important tools and methods to put Design Thinking into action. Based on the largest international survey on the use of design thinking, the most popular methods are described in four pages each by an expert from the global Design Thinking community. If you are involved in innovation, leadership, or design, these are tools you need. Simple instructions, expert tips, templates, and images help you implement each tool or method. Quickly and comprehensively familiarize yourself with the best design thinking tools Select the appropriate warm-ups, tools, and methods Explore new avenues of thinking Plan the agenda for different design thinking workshops Get practical application tips The Design Thinking Toolbox help innovators master the early stages of the innovation process. It's the perfect complement to the international bestseller The Design Thinking Playbook.

Stability Economics - the Economic Foundations of Security in Post-Conflict Environments -

Nathan Toronto 2019-05-14

In the years after invading Iraq and Afghanistan, the US military realized that it had a problem: How does a military force set the economic conditions for security success? This problem was certainly not novel--the military had confronted it before in such diverse locations as Grenada, Haiti, Bosnia, and Kosovo. The scale and complexity of the problem, however, were unlike anything military planners had confronted beforehand. This was especially the case in Iraq, where some commentators expected oil production to drive reconstruction.

[Border Management in Transformation](#) - Johann Wagner 2020

This book looks into the processes of change and renewal of border control and border security and management during the past 30 years after the fall of the Iron Curtain, and the immense challenges in nation-building in South-Eastern Europe after the collapse of former Yugoslavia in relation to strategic security management. The abolition of border controls within the Schengen area and simultaneous introduction of necessary replacement measures was an additional topic. The book provides an insight into which the European Union is competent in the reform and modernisation of state law enforcement agencies for ensuring effective border control, border surveillance and border management in line with the EU *acquis communautaire* and EU standards. In the 21st century, along with the process of globalisation, a constantly evolving security environment creates new dimensions of threats and challenges to security and stability of transnational nature. This seeks for comprehensive, multidimensional, collective and well-coordinated responses. The European Union, Organization for Security and Co-operation in Europe, United Nations, as well as other international organisations are able to really contribute to developing cooperative and coordinated responses to these threats by relying on its broad membership and profound expertise and experience. According to the position of the European Union, a modern, cost-benefit-oriented and effective border management system should ensure both, open borders as well as maximum of security at the same time. Thus, the Unions endeavour is to safeguarding internal security to all member states through preventing transnational threats, combating irregular migration and any forms of cross-border crime for ensuring smooth border crossings for legitimate travellers and their belongings, goods and services. That is why the Unions concept of Integrated Border Management has been developed to ensure effective border control and surveillance and cost-efficient management of the external borders of the European Union. The Unions policy is and will continue to be developed on the basis of the three main areas in place: common legislation, close operational/tactical cooperation and financial solidarity. In addition, Integrated Border Management has been confirmed as a priority area for strengthening the cooperation with third countries in the European Commissions strategic security management approach, where non-EU countries are encouraged as partners to upgrade their border security, surveillance and border management systems.

[Corporate Social Responsibility Across Europe](#) - André Habisch 2005-12-05

Corporate Social Responsibility (CSR) has become an increasingly important topic in our global society. Corporate Social Responsibility Across Europe is the first volume of its kind to bring together twenty-three national perspectives on this issue. Thirty-seven European researchers worked on the book, which provides a comprehensive and structured survey of CSR developments and progress at national levels. An overview and analysis is provided for each country. Topics addressed include business and societal mindsets in the different cultural settings, national drivers for the current development of CSR, and prospects for the

individual countries in the future. Furthermore it contains three comprehensive pan-European analyses. The chapters also contain practical information and references to the Internet as well as relevant literature in order to support further research and stimulate business activities in this field. The result is a rather unique collection of essays on the topic of CSR across Europe.

Granular Dynamics, Contact Mechanics and Particle System Simulations - Colin Thornton 2015-09-03

This book is devoted to the Discrete Element Method (DEM) technique, a discontinuum modelling approach that takes into account the fact that granular materials are composed of discrete particles which interact with each other at the microscale level. This numerical simulation technique can be used both for dispersed systems in which the particle-particle interactions are collisional and compact systems of particles with multiple enduring contacts. The book provides an extensive and detailed explanation of the theoretical background of DEM. Contact mechanics theories for elastic, elastic-plastic, adhesive elastic and adhesive elastic-plastic particle-particle interactions are presented. Other contact force models are also discussed, including corrections to some of these models as described in the literature, and important areas of further research are identified. A key issue in DEM simulations is whether or not a code can reliably simulate the simplest of systems, namely the single particle oblique impact with a wall. This is discussed using the output obtained from the contact force models described earlier, which are compared for elastic and inelastic collisions. In addition, further insight is provided for the impact of adhesive particles. The author then moves on to provide the results of selected DEM applications to agglomerate impacts, fluidised beds and quasi-static deformation, demonstrating that the DEM technique can be used (i) to mimic experiments, (ii) explore parameter sweeps, including limiting values, or (iii) identify new, previously unknown, phenomena at the microscale. In the DEM applications the emphasis is on discovering new information that enhances our rational understanding of particle systems, which may be more significant than developing a new continuum model that encompasses all microstructural aspects, which would most likely prove too complicated for practical implementation. The book will be of interest to academic and industrial researchers working in particle technology/process engineering and geomechanics, both experimentalists and theoreticians.

Flexible Working Practices and Approaches - Christian Korunka 2021-10-25

Modern workplaces are following a strong trend of increasing flexible working practices and approaches, offering more flexibility in working times, working places, work organization, and work relations as the result of new information and communication technologies. This book brings together a group of internationally recognized experts in the field of flexible work to examine the psychological and social implications of these practices, describing the current state of research and empirically-based practices in this field. It focuses on organizational, job, and individual factors related to the quality of working life, and identifies potential risk groups where the benefits of flexible work are suppressed or not realized. Ideal for organizations implementing or considering implementing flexible work, for professionals and researchers in work and organizational psychology, and for HR professionals, this volume is an invaluable overview of rapidly changing work norms and their impact on working life.

Financial Accounting - Robert Nothhelfer 2022-06-07

This book provides the only introduction to accounting according to German GAAP in English. This is helpful for students attending courses taught in English as well as for professionals in foreign subsidiaries of German companies. The 2nd edition provides a new translation of relevant parts of the German Commercial Code, updates the legal references and extends the exercises and case studies offered.

Automotive User Interfaces - Gerrit Meixner 2017-02-27

This book focuses on automotive user interfaces for in-vehicle usage, looking at car electronics, its software of hidden technologies (e.g., ASP, ESP), comfort functions (e.g., navigation, communication, entertainment) and driver assistance (e.g., distance checking). The increased complexity of automotive user interfaces, driven by the need for using consumer electronic devices in cars as well as autonomous driving, has sparked a plethora of new research within this field of study. Covering a broad spectrum of detailed topics, the authors of this edited volume offer an outstanding overview of the current state of the art; providing deep insights into usability and user experience, interaction techniques and technologies as well as methods, tools and its applications, exploring the increasing importance of Human-Computer-Interaction

(HCI) within the automotive industry Automotive User Interfaces is intended as an authoritative and valuable resource for professional practitioners and researchers alike, as well as computer science and engineering students who are interested in automotive interfaces.

Machine Learning For Dummies - John Paul Mueller 2021-02-09

One of Mark Cuban's top reads for better understanding A.I. (inc.com, 2021) Your comprehensive entry-level guide to machine learning While machine learning expertise doesn't quite mean you can create your own Turing Test-proof android—as in the movie *Ex Machina*—it is a form of artificial intelligence and one of the most exciting technological means of identifying opportunities and solving problems fast and on a large scale. Anyone who masters the principles of machine learning is mastering a big part of our tech future and opening up incredible new directions in careers that include fraud detection, optimizing search results, serving real-time ads, credit-scoring, building accurate and sophisticated pricing models—and way, way more. Unlike most machine learning books, the fully updated 2nd Edition of *Machine Learning For Dummies* doesn't assume you have years of experience using programming languages such as Python (R source is also included in a downloadable form with comments and explanations), but lets you in on the ground floor, covering the entry-level materials that will get you up and running building models you need to perform practical tasks. It takes a look at the underlying—and fascinating—math principles that power machine learning but also shows that you don't need to be a math whiz to build fun new tools and apply them to your work and study. Understand the history of AI and machine learning Work with Python 3.8 and TensorFlow 2.x (and R as a download) Build and test your own models Use the latest datasets, rather than the worn out data found in other books Apply machine learning to real problems Whether you want to learn for college or to enhance your business or career performance, this friendly beginner's guide is your best introduction to machine learning, allowing you to become quickly confident using this amazing and fast-developing technology that's impacting lives for the better all over the world.

Annals of Scientific Society for Assembly, Handling and Industrial Robotics - Thorsten Schüppstuhl 2020-08-21

This Open Access proceedings present a good overview of the current research landscape of industrial robots. The objective of MHI Colloquium is a successful networking at academic and management level. Thereby the colloquium is focussing on a high level academic exchange to distribute the obtained research results, determine synergetic effects and trends, connect the actors personally and in conclusion strengthen the research field as well as the MHI community. Additionally there is the possibility to become acquainted with the organizing institute. Primary audience are members of the scientific association for assembly, handling and industrial robots (WG MHI).

Artificial Freezing of Soils, Theory and Practice - Kh. R. Khakimov 1966

Basic problems of theory and practice of artificial freezing of soils.

Innovative Logistics Services and Sustainable Lifestyles - Ani Melkonyan 2019

This edited volume aims to describe the transformation of supply chain management (SCM) and logistics services by merging sustainable logistics, SCM, sustainable consumption and lifestyle research. This assessment of the transformation potential serves the development of sustainable business models and optimized decision-making systems for achieving sustainable economic value creation within a green economy. In 5 sections, the volume takes a unique transdisciplinary approach to assess sustainable business practices within SCM and the logistics sector, and to understand the interactions between logistics services and consumer lifestyles while creating transparency within the decision making process. This book will be of particular interest to academics, policymakers, planners, and politicians. Section 1 introduces readers to the importance of blended research and innovation between sustainable SCM and consumer lifestyles for transformation towards a green economy. Section 2 addresses the question of how trends and developments in consumption behavior and lifestyles influence the development of sustainable logistics. Section 3 discusses the transformation potential towards sustainable logistics using the food sector as an example. Section 4 focuses on strategic decision making in SCM, and how long-term improvements of sustainability performance can be achieved. Section 5 concludes with policy recommendations as well as research and innovation perspectives for future sustainable development with SCM and logistics.

100% Renewable Energy Transition - Claudia Kemfert 2020-01-23

Energy markets are already undergoing considerable transitions to accommodate new (renewable) energy forms, new (decentral) energy players, and new system requirements, e.g. flexibility and resilience. Traditional energy markets for fossil fuels are therefore under pressure, while not-yet-mature (renewable) energy markets are emerging. As a consequence, investments in large-scale and capital intensive (traditional) energy production projects are surrounded by high uncertainty, and are difficult to hedge by private entities. Traditional energy production companies are transforming into energy service suppliers and companies aggregating numerous potential market players are emerging, while regulation and system management are playing an increasing role. To address these increasing uncertainties and complexities, economic analysis, forecasting, modeling and investment assessment require fresh approaches and views. Novel research is thus required to simulate multiple actor interplays and idiosyncratic behavior. The required approaches cannot deal only with energy supply, but need to include active demand and cover systemic aspects. Energy market transitions challenge policy-making. Market coordination failure, the removal of barriers hindering restructuring and the combination of market signals with command-and-control policy measures are some of the new aims of policies. The aim of this Special Issue is to collect research papers that address the above issues using novel methods from any adequate perspective, including economic analysis, modeling of systems, behavioral forecasting, and policy assessment. The issue will include, but is not be limited to: Local control schemes and algorithms for distributed generation systems Centralized and decentralized sustainable energy management strategies Communication architectures, protocols and properties of practical applications Topologies of distributed generation systems improving flexibility, efficiency and power quality Practical issues in the control design and implementation of distributed generation systems Energy transition studies for optimized pathway options aiming for high levels of sustainability

Digital Business Leadership - Ralf T. Kreutzer 2018-04-27

This book provides specialists and executives with a clear, yet practical set of recommendations to meet the challenges of digital transformation and ensure long-term success as a leader in a primarily digital business world. The authors describe the fundamental principles of digitization and its economic opportunities and risks, integrating them into a framework of classic and new management methods. The book also explores how increasing digitization - not only of communication, but of complete value chains - has led to a need to establish a digital business leadership. Digitization is changing people and markets: it causes the upheaval of entire industries, creates new digital-centric companies, and forces established companies to cope with the transformation activities associated with these digitization processes. New approaches and methods have to be learned, tried and tested patterns of thinking have to be explored, and last but not least, innovation activities have to be understood as continuous necessities. At the same time, digital business offers considerable opportunities for renewing competitive advantages, improving existing process structures and realigning products, services and business models.

Perspectives of Employment Relations in Europe - Martin Behrens 2019-08-22

Implementing Industry 4.0 in SMEs - Dominik T. Matt 2021-05-08

This open access book addresses the practical challenges that Industry 4.0 presents for SMEs. While large companies are already responding to the changes resulting from the fourth industrial revolution, small businesses are in danger of falling behind due to the lack of examples, best practices and established methods and tools. Following on from the publication of the previous book 'Industry 4.0 for SMEs: Challenges, Opportunities and Requirements', the authors offer in this new book innovative results from research on smart manufacturing, smart logistics and managerial models for SMEs. Based on a large scale EU-funded research project involving seven academic institutions from three continents and a network of over fifty small and medium sized enterprises, the book reveals the methods and tools required to support the successful implementation of Industry 4.0 along with practical examples.

The Design Thinking Playbook - Michael Lewrick 2018-04-24

A radical shift in perspective to transform your organization to become more innovative The Design Thinking Playbook is an actionable guide to the future of business. By stepping back and questioning the

current mindset, the faults of the status quo stand out in stark relief—and this guide gives you the tools and frameworks you need to kick off a digital transformation. Design Thinking is about approaching things differently with a strong user orientation and fast iterations with multidisciplinary teams to solve wicked problems. It is equally applicable to (re-)design products, services, processes, business models, and ecosystems. It inspires radical innovation as a matter of course, and ignites capabilities beyond mere potential. Unmatched as a source of competitive advantage, Design Thinking is the driving force behind those who will lead industries through transformations and evolutions. This book describes how Design Thinking is applied across a variety of industries, enriched with other proven approaches as well as the necessary tools, and the knowledge to use them effectively. Packed with solutions for common challenges including digital transformation, this practical, highly visual discussion shows you how Design Thinking fits into agile methods within management, innovation, and startups. Explore the digitized future using new design criteria to create real value for the user Foster radical innovation through an inspiring framework for action Gather the right people to build highly-motivated teams Apply Design Thinking, Systems Thinking, Big Data Analytics, and Lean Start-up using new tools and a fresh new perspective Create Minimum Viable Ecosystems (MVEs) for digital processes and services which becomes for example essential in building Blockchain applications Practical frameworks, real-world solutions, and radical innovation wrapped in a whole new outlook give you the power to mindfully lead to new heights. From systems and operations to people, projects, culture, digitalization, and beyond, this invaluable mind shift paves the way for organizations—and individuals—to do great things. When you're ready to give your organization a big step forward, The Design Thinking Playbook is your practical guide to a more innovative future.

Co-occurring Addictive and Psychiatric Disorders - Geert Dom 2014-11-24

This book provides a comprehensive, state of the art overview that covers both the diagnosis and the treatment of dual disorders - joint psychiatric and substance use disorders associated with a worse outcome and disease progression than single psychiatric or addictive disorders. The book is designed to be highly relevant to clinical work and the organization of care systems and meets the real need for a European perspective on dual disorders that takes into account the realities of European treatment organization. All chapters have been written by European authors on the basis of existing European treatment programs or guidelines and European research. The book will be invaluable for all health professionals working in mental health and addiction care, who are increasingly confronted with patients suffering from dual disorders.

OECD Economic Surveys: Belgium 2020 - OECD 2020-02-03

Belgium performs well in many economic and well-being dimensions, but risks are building up. Maintaining the reform momentum will boost the resilience of the Belgian economy. Rebuilding fiscal buffers should remain a priority to cope with population ageing. Strong mortgage credit growth and easing of lending standards require adequate prudential measures. The employment rate remains low and changes in the nature of work can exacerbate existing gaps according to socio-economic status or regions.

Agile Modeling with UML - Bernhard Rumpe 2017-04-26

This book focuses on the methodological treatment of UML/P and addresses three core topics of model-based software development: code generation, the systematic testing of programs using a model-based definition of test cases, and the evolutionary refactoring and transformation of models. For each of these topics, it first details the foundational concepts and techniques, and then presents their application with UML/P. This separation between basic principles and applications makes the content more accessible and allows the reader to transfer this knowledge directly to other model-based approaches and languages. After an introduction to the book and its primary goals in Chapter 1, Chapter 2 outlines an agile UML-based approach using UML/P as the primary development language for creating executable models, generating code from the models, designing test cases, and planning iterative evolution through refactoring. In the interest of completeness, Chapter 3 provides a brief summary of UML/P, which is used throughout the book. Next, Chapters 4 and 5 discuss core techniques for code generation, addressing the architecture of a code generator and methods for controlling it, as well as the suitability of UML/P notations for test or product code. Chapters 6 and 7 then discuss general concepts for testing software as well as the special

features which arise due to the use of UML/P. Chapter 8 details test patterns to show how to use UML/P diagrams to define test cases and emphasizes in particular the use of functional tests for distributed and concurrent software systems. In closing, Chapters 9 and 10 examine techniques for transforming models and code and thus provide a solid foundation for refactoring as a type of transformation that preserves semantics. Overall, this book will be of great benefit for practical software development, for academic training in the field of Software Engineering, and for research in the area of model-based software development. Practitioners will learn how to use modern model-based techniques to improve the production of code and thus significantly increase quality. Students will find both important scientific basics as well as direct applications of the techniques presented. And last but not least, the book will offer scientists a comprehensive overview of the current state of development in the three core topics it covers.

European Islamophobia Report 2015 - Enes Bayraklı 2016-03-23

The Report is an annual report, which is presented for the first time this year. It currently comprises 25 national reports regarding each state and the tendencies of Islamophobia in each respective country.

Transdisciplinary Engineering: A Paradigm Shift - C.-H. Chen 2017-07-20

Concurrent Engineering is based on the concept that different phases of a product life cycle should be conducted concurrently and initiated as early as possible within the Product Creation Process (PCP). Its main goal is to increase the efficiency and effectiveness of the PCP and reduce errors in the later stages, and to incorporate considerations for the full lifecycle, through-life operations, and environmental issues of the product. It has become the substantive basic methodology in many industries, and the initial basic concepts have matured and become the foundation of many new ideas, methodologies, initiatives, approaches and tools. This book presents the proceedings of the 24th ISPE Inc. International Conference on Transdisciplinary (formerly: Concurrent) Engineering (TE 2017), held in Singapore, in July 2017. The 120 peer-reviewed papers in the book are divided into 16 sections: air transport and traffic operations and management; risk-aware supply chain intelligence; product innovation and marketing management; human factors in design; human engineering; design methods and tools; decision supporting tools and methods; concurrent engineering; knowledge-based engineering; collaborative engineering; engineering for sustainability; service design; digital manufacturing; design automation; artificial intelligence and data analytics; smart systems and the Internet of Things. The book provides a comprehensive overview of recent advances in transdisciplinary concurrent engineering research and applications, and will be of interest to researchers, design practitioners and educators working in the field.

The Digital Transformation of the Automotive Industry - Uwe Winkelhake 2017-12-15

Building on his decades of experience as a consultant and project manager in the automotive industry, the author develops comprehensive and pragmatic recommendations for action regarding the digital transformation of the automotive and supplier industries. At the heart is the transition from a vehicle-focused to a mobility-oriented business model. Based on the catalysts of the digital change, four digitisation fields are structured, and a roadmap for their transformation is presented. The topics of comprehensive change in corporate culture and an agile and efficient information technology are covered in detail as vital success factors. Selected practical examples of innovative digitisation projects provide additional ideas and impulses. An outlook on the automotive industry in the year 2040 completes the discourse.

Build To Order - Glenn Parry 2008-07-23

Over the past 100 years the European Automotive Industry has been repeatedly challenged by best practice. First by the United States, through the development of 'mass production' pioneered by Henry Ford and more recently by 'lean production techniques' as practised by the leading Japanese producers, particularly Toyota. It has consistently risen to these challenges and has shown it can compete and even outperform its competitors with world-class products. However, the European industry is now faced with growing competition and growth from new emerging low-cost countries and needs to re-define its competitive advantage to remain at the forefront of the sector. Automotive growth is driven by two factors, new markets and new technologies. Global competition is increasing, with technology and product differentiation becoming the most important sales factors, but with continued cost pressure. Within the market the winners will be more profitable and the losers will disappear. The Automotive Industry makes a significant contribution to the socio-economic fabric of the European Union. Manufacturing output

represents €700 billion and research and development spending €24 billion. European automotive suppliers number 5000 member companies and represent 5 million employees and generate €500 billion in revenues. These are significant figures that generate wealth and high value employment within the EU. European firms must consistently improve their competitive position to ensure that the industry does not migrate to growing new markets.

Advances in Services Innovations - Dieter Spath 2006-12-02

The book documents the state-of-the-art in Services Science. It combines contributions in Service Engineering, Service Management and Service Marketing and helps to develop a roadmap for future R and D activities in these fields. The book is written for researchers in engineering and management.

Climate Change Impacts and Adaptation for Transport Networks and Nodes - United Nations Publications 2020-04-14

This report presents the analyses of several climate variables relevant to transport networks and nodes within the ECE region. Regional maps have been produced in Geographical Information System (GIS) format, showing the main transportation networks, which have been overlain by the spatial distribution of the climate change projections, thereby presenting an initial perspective of areas of potential risk which could warrant more in-depth assessment. The Group of Experts has also reviewed and presented country experiences in the form of case studies, demonstrating a range of efforts that have been undertaken to analyse climate change impacts on transport assets and operations. With its work, the Group of Experts wishes to raise awareness on the importance of considering climate change and extreme weather (for example, in planning, construction, maintenance and operations) and of strengthening the climate resilience of inland transport assets, networks and nodes. It also aims to stimulate the continuation of work to establish the necessary analytical basis to facilitate local or regional assessments, leading to the identification of specific transport assets at risk which may require adaptation efforts. The Group of Experts, within this report, also formulated a series of lessons learned which have served as a basis to recommend future action at national and international levels towards improved transportation system climate resilience.

Vocational Education and Training in the Age of Digitization - Eveline Wuttke 2020-10-26

Mit der zunehmenden Digitalisierung der Arbeitswelt ist ein beschleunigter Strukturwandel verbunden, der veränderte Qualifikationsprofile und damit neue Herausforderungen für die berufliche Aus- und Weiterbildung mit sich bringt. Betriebe, berufliche Schulen und andere Bildungsinstitutionen müssen darauf in angemessener Weise reagieren. Der Band nimmt die vielfältigen Anforderungen an Lehrende, Lernende und Bildungsinstitutionen der beruflichen Aus- und Weiterbildung in den Blick und stellt aktuelle Ergebnisse zum Lernen im digitalen Zeitalter zur Verfügung.

Autonomous Driving - Markus Maurer 2016-05-21

This book takes a look at fully automated, autonomous vehicles and discusses many open questions: How can autonomous vehicles be integrated into the current transportation system with diverse users and human drivers? Where do automated vehicles fall under current legal frameworks? What risks are associated with automation and how will society respond to these risks? How will the marketplace react to automated vehicles and what changes may be necessary for companies? Experts from Germany and the United States define key societal, engineering, and mobility issues related to the automation of vehicles. They discuss the decisions programmers of automated vehicles must make to enable vehicles to perceive their environment, interact with other road users, and choose actions that may have ethical consequences. The authors further identify expectations and concerns that will form the basis for individual and societal acceptance of autonomous driving. While the safety benefits of such vehicles are tremendous, the authors demonstrate that these benefits will only be achieved if vehicles have an appropriate safety concept at the heart of their design. Realizing the potential of automated vehicles to reorganize traffic and transform mobility of people and goods requires similar care in the design of vehicles and networks. By covering all of these topics, the book aims to provide a current, comprehensive, and scientifically sound treatment of the emerging field of "autonomous driving".

Progress in Sustainable Mobility Research - Jorge Marx Gómez

This book presents the outcomes of the trans- and interdisciplinary research project NEMo (Nachhaltige

Erfüllung von Mobilitätsbedürfnissen im ländlichen Raum - Sustainable Fulfilment of Mobility Needs in Rural Areas). Due to demographic change, it is becoming increasingly difficult for rural districts and communities to maintain a basic set of public transport services such as bus and train transit without encountering issues regarding necessary social participation, sensible regional value creation and, last but not least, achievable environmental protection goals. At the same time, the demand for mobility in rural areas will continue to rise in the future, e.g. due to the concentration of medical care facilities and shopping centres close to cities. Focusing on the development of sustainable and innovative mobility services and business models, this book explains how new mobility offers can be created in which citizens themselves become mobility providers. To do so, it combines the findings of the individual research groups with external contributions from science and practice.

Collective Agreements - Susan Hayter 2018

Collective bargaining involves a process of negotiation between one or more unions and an employer or employers' organisation(s). The outcome is a collective agreement that defines terms of employment - typically wages, working hours and in-work benefits. The agreement affords labour protection: minimum wages, regular earnings; limits on working hours and predictable work schedules; safe working environments; parental leave and sick leave; and a fair share in the benefits of increased productivity. The International Labour Organization (ILO) Collective Agreements Recommendation 1951 (No. 91) considers, where appropriate and having regard to national practice, that measures should be taken to extend the application of all or some provisions of a collective agreement to all employers and workers included within the domain of the agreement. The extension of a collective agreement generalises the terms and conditions of employment, agreed between organised firms and workers, represented through their association(s) and union(s), to the non-organised firms within a sector, occupation or territory. The collection of chapters in this volume are about the extension of collective agreements as an act of public policy.

EMOOCs 2021 - Julien Jacqmin 2021

From June 22 to June 24, 2021, Hasso Plattner Institute, Potsdam, hosted the seventh European MOOC Stakeholder Summit (EMOOCs 2021) together with the eighth ACM Learning@Scale Conference. Due to the COVID-19 situation, the conference was held fully online. The boost in digital education worldwide as a result of the pandemic was also one of the main topics of this year's EMOOCs. All institutions of learning have been forced to transform and redesign their educational methods, moving from traditional models to hybrid or completely online models at scale. The learnings, derived from practical experience and research, have been explored in EMOOCs 2021 in six tracks and additional workshops, covering various aspects of this field. In this publication, we present papers from the conference's Experience Track, the Policy Track, the Business Track, the International Track, and the Workshops.

Proximity Matters? - Anders Larsson 1999

Brains Versus Capital - Günter Faltn 2018-03

The tea campaign as a case study -- Start-ups: creative concepts, not high-tech -- The step-child concept: it

pays to finetune your concept -- Avoiding overload -- Building a business with components -- Playing in the big boys' league -- How to work out your own high-potential concept: the entrepreneurship laboratory -- Entrepreneurship as a challenge -- Say goodbye to old ways of thinking (don't draw conclusions about the future based on the past) -- An invitation to a dance

Handbook of Research on Teaching - Drew Gitomer 2016-05-19

The Fifth Edition of the Handbook of Research on Teaching is an essential resource for students and scholars dedicated to the study of teaching and learning. This volume offers a vast array of topics ranging from the history of teaching to technological and literacy issues. In each authoritative chapter, the authors summarize the state of the field while providing conceptual overviews of critical topics related to research on teaching. Each of the volume's 23 chapters is a canonical piece that will serve as a reference tool for the field. The Handbook provides readers with an unparalleled view of the current state of research on teaching across its multiple facets and related fields.

Controlling and Berlin Balanced Scorecard Approach - Wilhelm Schmeisser 2012-09-17

The "Harvard Balanced Scorecard model" by Kaplan and Norton wishes to make strategies communicable and more manageable for companies across all management levels within the company. To this effect, the balanced scorecard is a qualitative controlling or performance management instrument.

Encyclopedia of Sustainability in Higher Education - Walter Leal Filho 2019-10-28

This encyclopedia serves as a tool to support universities across the world to implement sustainable development in higher education in a number of key areas, spread over 5 volumes: 1. Policy-making, visioning, structures, management and strategies 2. Teaching, learning and competencies 3. Research and transformation 4. Campus greening, design, operations and carbon impacts 5. Students and stakeholders' initiatives and involvement The encyclopedia will be of special interest to administrators and managers at higher education institutions; academic staff (e.g. lecturers, professors, researchers); technical staff and students. Also, other groups working outside higher education, but interested on the theory and practice of sustainable development, will find its contents useful.

Industry 4.0 for SMEs - Dominik T. Matt 2020-01-03

This open access book explores the concept of Industry 4.0, which presents a considerable challenge for the production and service sectors. While digitization initiatives are usually integrated into the central corporate strategy of larger companies, smaller firms often have problems putting Industry 4.0 paradigms into practice. Small and medium-sized enterprises (SMEs) possess neither the human nor financial resources to systematically investigate the potential and risks of introducing Industry 4.0. Addressing this obstacle, the international team of authors focuses on the development of smart manufacturing concepts, logistics solutions and managerial models specifically for SMEs. Aiming to provide methodological frameworks and pilot solutions for SMEs during their digital transformation, this innovative and timely book will be of great use to scholars researching technology management, digitization and small business, as well as practitioners within manufacturing companies.