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This book reports on the proceeding of the 5th International Conference on Intelligent, Interactive Systems and Applications (IISA 2020), held in Shanghai, China, on September 25–27, 2020. The IISA proceedings, with the latest scientific findings, and methods for solving intriguing problems, are a reference for state-of-the-art works on intelligent and interactive systems. This book covers nine interesting and current topics on different systems' orientations, including Analytical Systems, Database Management Systems, Electronics Systems, Energy Systems, Intelligent Systems, Network Systems, Optimization Systems, and Pattern Recognition Systems and Applications. The chapters included in this book cover significant recent developments in the field, both in terms of theoretical foundations and their practical application. An important characteristic of the works included here is the novelty of the solution approaches to the most interesting applications of intelligent and interactive systems. Patterns of globalization, the flow of students and scholars across borders, the impact of information technology, and other key forces are critically assessed. This book is a key resource for understanding the present and future of global higher education.

Behind the headlines, things are happening—remorselessly and inexorably. They will have more impact on the world than the passing news in today's headlines. The new global environment will be very different. Are you prepared? How will you, your family, and your business cope? Today's world is very noisy. How do you filter out what is important? How do you make sense of the future? What do you need to think about? This book explores the world as it could be in 2032—and the implications for you and your organisation. It investigates the twelve key megatrends that are changing in the world. For each one, the book discusses the impact, why it is important, how we got here, what could accelerate or slow this trend, and what individuals and organisations can do to survive and thrive in the new world of 2032. The contributors here are professionals in thinking about the future. They have worked with many high-profile organisations, have held senior line roles in major corporations and understand the needs of both decision makers and ordinary people. Customs administrations around the world face new challenges: an increasing volume of international trade, a revolution in new technologies, and fundamental changes in business models. The benefits of a well-performing customs administration are clear, as is the need to develop efficient, effective, fair, and modern customs administrations. **Customs Matters** analyzes the many changes and challenges customs administrations face and proposes ways to address them. By offering a cross-sectional view of the main aspects of customs administration, the book guides policymakers and customs officials as they evaluate the current state of their customs system with a view to developing, reinforcing, or relaunching their own roadmaps for customs modernization. Disha's 'Mission IAS' is acclaimed as one of the most authoritative and comprehensive books of high-quality reference materials to understand the pattern, syllabus, level & Scope of IAS exam and to devise a strategy to prepare and crack the exam. The Main features of the thoroughly Revised & Updated 2nd edition book are --

- Exclusively designed to cater to the aspirants of IAS - Prelims & Main Exam.
- Covers exam patterns of CSAT (Prelims & Main - English, GS & optional subjects) as well as Interview.
- Covers service profile -- recruitment, training, functions, promotions, designations, remunerations of 'All India Services' & 'Central Civil Service' -Group 'A' & 'B' under UPSC -- Civil Service Exams like IAS, IPS, IFS, IRS, etc.
- Infographics, bar charts and data in tabular form facilitating information quickly and clearly.
- Language is lucid making problem-solving fun to candidates of diverse backgrounds.
- Keeping the whole coverage of the book in accordance with the syllabus and pattern of the exam, it will act as a standard reference and preparation material for all the needs of aspirants of CSAT.
- Preparation material is in line with the analysis of Previous Years' Exams Papers which will help aspirants know the trend of the questions and the difficulty level of the same. The book attempts to covers the main fields of water quality issues presenting case studies in various countries concerning the physicochemical characteristics of surface and groundwaters and possible pollution sources as well as methods and tools for the evaluation of water quality status. This book is divided into two sections: Statistical Analysis of Water Quality Data; Water Quality Monitoring Studies. Software is the essential enabler for the new economy and science. It creates new markets and new directions for a more reliable, flexible, and robust society. It empowers the exploration of our world in ever more depth. However, software often falls short behind our expectations. Current software methodologies, tools, and techniques remain expensive

and not yet reliable for a highly changeable and evolutionary market. Many approaches have been proven only as case-by-case oriented methods. This book presents a number of new trends and theories in the direction in which we believe software science and engineering may develop to transform the role of software and science in tomorrow's information society. This publication is an attempt to capture the essence of a new state of art in software science and its supporting technology. It also aims at identifying the challenges such a technology has to master. A general survey of current research, problems of dissemination and possible peaceful applications of research. This book presents the algorithms used to provide recommendations by exploiting matrix factorization and tensor decomposition techniques. It highlights well-known decomposition methods for recommender systems, such as Singular Value Decomposition (SVD), UV-decomposition, Non-negative Matrix Factorization (NMF), etc. and describes in detail the pros and cons of each method for matrices and tensors. This book provides a detailed theoretical mathematical background of matrix/tensor factorization techniques and a step-by-step analysis of each method on the basis of an integrated toy example that runs throughout all its chapters and helps the reader to understand the key differences among methods. It also contains two chapters, where different matrix and tensor methods are compared experimentally on real data sets, such as Epinions, GeoSocialRec, Last.fm, BibSonomy, etc. and provides further insights into the advantages and disadvantages of each method. The book offers a rich blend of theory and practice, making it suitable for students, researchers and practitioners interested in both recommenders and factorization methods. Lecturers can also use it for classes on data mining, recommender systems and dimensionality reduction methods.

Monografie se zaměřuje na popis a hodnocení historických kořenů a současných trendů blízkovýchodní a středomořské migrace. Hlavní pozornost je věnována čtyřem oblastem: Maghribu, Egyptu, Mašriku a zemím Zálivu.

PURPOSE: The analysis of the literature shows that the attempts to conceptualize the strategic aspects of the network bring a significant impact on the development of research on organizational networks. This article aims to analyze the new trends in strategic management, and in particular on the possibility of exploring the network approach in strategic management, through the existing literature and the presentation of the new contributions of the following articles published in the current issue.

METHODOLOGY: The article is descriptive in character; thus it is based on a literature review and its constructive critics. A narrative literature review was used to present the main assumptions and features of the network approach in strategic management, along with an indication of emerging trends and new directions. Also the identification of theoretical foundations for understanding the processes of strategic change in inter-organizational networks and the proposition of the way to understand network strategy were presented.

FINDINGS: The research included in this issue shows that from a network perspective, business strategy plays an important role in guiding the development of individual relationships and networks. Exploring the network approach in strategic management allows one to adopt the category of network strategy, which can be described through the coexistence of cooperation and competition.

IMPLICATIONS FOR THEORY AND PRACTICE: Considerations lead to the conclusion that the business strategy must be expressed in terms of potential changes in the network in which the company operates, taking into account its current and selected

position in the network. Despite the fact that the current state of research on organizational networks in the theory of strategic management shows that this approach is already quite well established, on the basis of the analysis of research results concerning the conceptualization of strategic aspects of the network, the existing problems and limitations were identified. ORIGINALITY AND VALUE: The main problems related to the exploration of the network approach and the resulting consequences for the definition of the network strategy were indicated. Also, the combination of an organizational and economic approach with the logic of competitive advantage and relational annuity. The demonstration that the network perspective in strategic management allows for a more complete understanding of the strategic behavior of modern enterprises. Keywords: network, network strategy, network approach, strategic management Table of Contents Network approaches and strategic management: Exploration opportunities and new trends 7 Beata Barczak, Tomasz Kafel, Pierpaolo Magliocca Networks and network strategies: New theorization based upon a systematic literature review 37 Rossella Canestrino, Amir Forouharfar Direct and moderation effects on U.S. apparel manufacturers' engagement in network ties 67 Nancy J. Miller, Carol Engel-Enright, David A. Brown Mapping of a science and technology policy network based on social network analysis 115 Esmaeel Kalantari, Gholamali Montazer, Sepehr Ghazinoory Synergetic effects of network interconnections in the conditions of virtual reality 149 Kateryna Kraus, Nataliia Kraus, Olena Shtepa Complexity, continuity, and strategic management of buyer–supplier relationships from a network perspective 189 Martin Pech, Drahoš Vaněček, Jaroslava Pražáková Interfirm network structure and firm resources: Towards a unifying concept 227 Jesse Karjalainen, Aku Valtakoski, Ilkka Kauranen Health is a contested concept that has been defined in numerous ways. The media is extremely powerful in promoting health beliefs and in creating role models for contemporary people. The ways in which health is defined or understood can have wide-ranging implications and can have an impact on issues such as health promotion or health literacy. Health presentation in the media has a significant social impact because this type of message is important in changing people's beliefs, attitudes and behaviours relating to health and in promoting health-related knowledge among the target audience. The present volume provides an interdisciplinary and multicultural contemporary approach to the controversial link between medicine and media. The authors that have contributed to this volume analyse the media and medicine from different perspectives and different countries (USA, UK, Portugal, Turkey, Taiwan, Mexico, Estonia, Romania), thus offering a re-positioning of the study of media and medicine. The new perspectives offered by this volume will be of interest to any health communication or media studies student or academic since they bring to light new ideas, new methodologies and new results. A self study exam preparatory guide for financial technical analysis certifications Written by the course director and owner of www.tradermasterclass.com, a leading source of live and online courses in trading, technical analysis, and money management, A Handbook of Technical Analysis: The Practitioner's Comprehensive Guide to Technical Analysis is the first financial technical analysis examination preparatory book in the market. It is appropriate for students taking IFTA CFTe Level I and II (US), STA Diploma (UK), Dip TA (Aus), and MTA CMT Level I, II, and III exams in financial technical analysis, as well as for students in undergraduate, graduate, or MBA courses. The book

is also an excellent resource for serious traders and technical analysts, and includes a chapter dedicated to advanced money management techniques. This chapter helps complete a student's education and also provides indispensable knowledge for FOREX, bond, stock, futures, CFD, and option traders. Learn the definitions, concepts, application, integration, and execution of technical-based trading tools and approaches. Integrate innovative techniques for pinpointing and handling market reversals. Understand trading mechanisms and advanced money management techniques. Examine the weaknesses of popular technical approaches and find more effective solutions. The book allows readers to test their current knowledge and then check their learning with end-of-chapter test questions that span essays, multiple choice, and chart-based annotation exercises. This handbook is an essential resource for students, instructors, and practitioners in the field. Alongside the handbook, the author will also publish two full exam preparatory workbooks and a bonus online Q&A Test bank built around the most popular professional examinations in financial technical analysis.

First published in Great Britain in 1973, *Main Trends in the Science of Language* was part of a series of books that resulted from a study carried out by UNESCO in collaboration with national and international research centres in the social sciences, as well as with groups of individual scholars. The book examines the position of linguistics in the years surrounding the publication of the book before considering the subject's potential, future development. It looks at linguistic vistas, the place of linguistics among the sciences of man and linguistics and natural sciences. This book will be of interest to the educated reader, research workers, and professional associations as well as to national and international institutions that organize, plan and finance scientific research. This book constitutes the thoroughly refereed revised selected papers of the 15th International Symposium on Trends in Functional Programming, TFP 2014, held in Soesterberg, The Netherlands, in May 2014. The 8 revised full papers included in this volume were carefully and selected from 22 submissions. TFP is an international forum for researchers with interests in all aspects of functional programming, taking a broad view of current and future trends in the area.

The National Assessment of Educational Progress (NAEP), known as the nation's report card, has chronicled students' academic achievement in America for over a quarter of a century. It has been a valued source of information about students' performance, providing the best available trend data on the academic achievement of elementary, middle, and secondary school students in key subject areas. NAEP's prominence and the important need for stable and accurate measures of academic achievement call for evaluation of the program and an analysis of the extent to which its results are reasonable, valid, and informative to the public. This volume of papers considers the use and application of NAEP. It provides technical background to the recently published book, *Grading the Nation's Report Card: Evaluating NAEP and Transforming the Assessment of Educational Progress* (NRC, 1999), with papers on four key topics: NAEP's assessment development, content validity, design and use, and more broadly, the design of education indicator systems.

Organic farming is a progressive method of farming and food production it does not mean going back to traditional (old) methods of farming. Many of the traditional farming methods used in the past are still useful today. Organic farming takes the best of these and combines them with modern scientific knowledge. Authors' task was to write a book where many different existing studies could be

presented in a single volume, making it easy for the reader to compare methods, results and conclusions. As a result, studies from different countries have been compiled into one book. I believe that the opportunity to compare results and conclusions from different authors will create a new perspective in organic farming and food production. I hope that our book will help researchers and students from all over the world to attain new and interesting results in the field of organic farming and food production. Recoge: 1.Introduction - 2.Social economic background and country characteristics of the Hospital Sector - 3.Overview of the occupational health and safety situation in the Hospital Sector across Europe - 4.View of social partners, government and others - 5.Final conclusions. This title was first published in 2001. This study attempts to present a broad picture of political, economic and social developments in Russia at the start of the 21st century. It provides an overview of the legacy of the Yeltsin era and attempts to outline major limitations and policy choices that Putin is facing. The book contains an in-depth analysis of power struggles in Russia, the background to Vladimir Putin's rise to presidency, the role of oligarchs and other pressure groups in Russia. There is also a focus on economic, social and financial developments in Russia, with an overview of Russian foreign, military and social policies, as well as looking at its level of development when compared with other countries. Can a distinct national foreign policy still be identified for small EU member states, and what accounts for the balance between national and EU foreign policy? Henrik Larsen develops an analytical framework for analyzing these questions and offers solutions through an empirical examination of the foreign policy of a small EU member state in the context of EU foreign policy - the case of Denmark. The book looks at seven policy areas: policy towards other EU member states, anti-terrorism, development, the Balkans, Africa, Latin America and trade. On the basis of the empirical study, the implications for the theoretical study of national foreign policy in an EU Context are outlined. It is suggested that we need a new, mixed approach to foreign policy analysis within the EU taking into account the nature of the policy area concerned and national conceptions of actorness. Translated from the French by Judith Hayward. This book is composed of a selection of articles from The 2021 World Conference on Information Systems and Technologies (WorldCIST'21), held online between 30 and 31 of March and 1 and 2 of April 2021 at Hangra de Heroismo, Terceira Island, Azores, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern information systems and technologies research, together with their technological development and applications. The main topics covered are: A) Information and Knowledge Management; B) Organizational Models and Information Systems; C) Software and Systems Modeling; D) Software Systems, Architectures, Applications and Tools; E) Multimedia Systems and Applications; F) Computer Networks, Mobility and Pervasive Systems; G) Intelligent and Decision Support Systems; H) Big Data Analytics and Applications; I) Human-Computer Interaction; J) Ethics, Computers & Security; K) Health Informatics; L) Information Technologies in Education; M) Information Technologies in Radiocommunications; N) Technologies for Biomedical Applications.

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