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**KEY=IN - MARSHALL MILLS**

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## Current Trends in Knowledge Acquisition

**IOS Press Knowledge acquisition has become a major area of artificial intelligence and cognitive science research. The papers in this book show that the area of knowledge acquisition for knowledge-based systems is still a diverse field in which a large number of research topics are being addressed. However, several main themes run through the papers. First, the issues of integrating knowledge from different sources and K.A. tools is a salient topic in many papers. A second major topic in the papers is that of knowledge modelling. Research in knowledge-based systems emphasises the use of generic models of reasoning and its underlying knowledge. An important trend in the area of knowledge modelling aims at the formalisation of knowledge models. Where the field of knowledge acquisition was without tools and techniques years ago, now there is a rapidly growing body of techniques and tools. Apart from the integrated workbenches already mentioned above, several papers in this book present new tools. Although knowledge acquisition and machine learning have been considered as separate subfields of AI, there is a tendency for the two fields to come together. This publication combines machine learning techniques with more conventional knowledge elicitation techniques. A framework is presented in which reasoning, problem solving and learning together form a knowledge intensive system that can acquire knowledge from its own experience.**

# Readings in Knowledge Acquisition Current Practices and Trends

Ellis Horwood Limited

## Current Issues and Trends in Knowledge Management, Discovery, and Transfer

**IGI Global** No matter the industry, the development of information technologies has transformed how information is distributed and used to predict trends. Collecting and identifying the most vital information, however, requires constant management and manipulation. **Current Issues and Trends in Knowledge Management, Discovery, and Transfer** is an essential reference source that discusses crucial practices for collaborating and distributing work as well as validating accrued knowledge from real-time data. Featuring research on topics such as dynamic knowledge, management systems, and sharing behavior, this book is ideally designed for academics, researchers, librarians, managing professionals, and students seeking coverage on knowledge acquisition and implementation across systems.

## Current Trends in Management Consulting

**IAP Volume One** in this series focuses on current trends in the management consulting industry. It is divided into three sections: (1) a look at some of the broad changes taking place in the management consulting industry, (2) an examination of recent trends and techniques in the practice of management consulting, and (3) reflections on the current state of affairs in the industry. As this brief overview has hopefully captured, the first volume in this series provides ample insight into and differing perspectives on the multi-faceted world of management consulting. Thanks are due to all the authors for their thoughtful work, good-natured collegueship, and willingness to contribute their thoughts and insights about the consulting field. This volume would not have been possible without their efforts.

# Ubiquitous Developments in Knowledge Management: Integrations and Trends Integrations and Trends

IGI Global "This book presents current research in Knowledge Management, highlighting new technologies, approaches, issues, solutions, or cases that can help an organization implement a knowledge management initiative or provide a knowledge base"--Provided by publisher.

## Artificial Intelligence

### Research Directions in Cognitive Science: European Perspectives

Routledge Originally published in 1992, this title reviews seven major subareas in artificial intelligence at that time: knowledge acquisition; logic programming and representation; machine learning; natural language; vision; the design of an AI programming environment; and medicine, a major application area of AI. This volume was an attempt primarily to inform fellow AI workers of recent European work in AI. It was hoped that researchers in 'sister' disciplines, such as computer science and linguistics would gain a deeper understanding of the assumptions, techniques and tools of contemporary AI.

### A Future for Knowledge Acquisition 8th European Knowledge Acquisition Workshop, EKAW'94, Hoegaarden, Belgium, September

## 26 - 29, 1994. Proceedings

**Springer Science & Business Media** In the last few years rapid advances have been made in reproductive medicine, making it necessary for those involved to regularly update their knowledge. The purpose of this book is to describe the state of the art in this field, making it possible for the reader to gain an orientation among all the diagnostic and therapeutic potentials of modern reproductive medicine in order to advise patients fully. Chapters from the fields of gynecology, and reproductive medicine in a specific sense provide knowledge about these subjects. Authors of international standing have contributed chapters on their specialties. These chapters together form a book describing the state of the art in the diagnosis and therapy of sterility in gynecology and andrology.

## Artificial Intelligence Abstracts

## The Psychology of Expertise

## Cognitive Research and Empirical Ai

**Psychology Press** This volume investigates our ability to capture, and then apply, expertise. In recent years, expertise has come to be regarded as an increasingly valuable and surprisingly elusive resource. Experts, who were the sole active dispensers of certain kinds of knowledge in the days before AI, have themselves become the objects of empirical inquiry, in which their knowledge is elicited and studied -- by knowledge engineers, experimental psychologists, applied psychologists, or other experts -- involved in the development of expert systems. This book achieves a marriage between experimentalists, applied scientists, and theoreticians who deal with expertise. It envisions the benefits to society of an advanced technology for capturing and disseminating the knowledge and skills of the best corporate managers, the most seasoned pilots, and the most renowned medical diagnosticians. This book should be of interest to psychologists as well as to knowledge engineers who are "out in the trenches" developing expert systems, and anyone pondering the nature of expertise and the question of how it can be elicited and studied scientifically. The book's scope and the pivotal concepts that it elucidates and appraises, as well as the extensive categorized bibliographies it includes, make this volume a landmark in the field of expert systems and AI as well as the field of applied experimental psychology.

# Knowledge Acquisition, Modeling and Management

11th European Workshop, EKAW'99,  
Dagstuhl Castle, Germany, May  
26-29, 1999, Proceedings

**Springer Past, Present, and Future of Knowledge Acquisition** This book contains the proceedings of the 11th European Workshop on Knowledge Acquisition, Modeling, and Management (EKAW '99), held at Dagstuhl Castle (Germany) in May of 1999. This continuity and the high number of submissions reflect the mature status of the knowledge acquisition community. Knowledge Acquisition started as an attempt to solve the main bottleneck in developing expert systems (now called knowledge-based systems): Acquiring knowledge from a human expert.

Various methods and tools have been developed to improve this process. These approaches significantly reduced the cost of developing knowledge-based systems. However, these systems often only partially fulfilled the task they were developed for and maintenance remained an unsolved problem. This required a paradigm shift that views the development process of knowledge-based systems as a modeling activity. Instead of simply transferring human knowledge into machine-readable code, building a knowledge-based system is now viewed as a modeling activity. A so-called knowledge model is constructed in interaction with users and experts. This model need not necessarily reflect the already available human expertise. Instead it should provide a knowledge level characterization of the knowledge that is required by the system to solve the application task. Economy and quality in system development and maintainability are achieved by reusable problem-solving methods and ontologies. The former describe the reasoning process of the knowledge-based system (i. e. , the algorithms it uses) and the latter describe the knowledge structures it uses (i. e. , the data structures). Both abstract from specific application and domain specific circumstances to enable knowledge reuse.

## Data Mining: Concepts,

# Methodologies, Tools, and Applications

## Concepts, Methodologies, Tools, and Applications

**IGI Global** Data mining continues to be an emerging interdisciplinary field that offers the ability to extract information from an existing data set and translate that knowledge for end-users into an understandable way. **Data Mining: Concepts, Methodologies, Tools, and Applications** is a comprehensive collection of research on the latest advancements and developments of data mining and how it fits into the current technological world.

## New Trends in Language Acquisition Within the Generative Perspective

**Springer Nature** This book presents a comprehensive, state-of-the-art treatment of the acquisition of Indo- and Non-Indo-European languages in various contexts, such as L1, L2, L3/Ln, bi/multilingual, heritage languages, pathology as well as language impairment, and sign language acquisition. The book explores a broad mix of methodologies and issues in contemporary research. The text presents original research from several different perspectives, and provides a basis for dialogue between researchers working on diverse projects with the aim of furthering our understanding of how languages are acquired. The book proposes and refines new theoretical constructs, e.g. regarding the complexity of linguistic features as a relevant factor forming children's, adults' and bilingual individuals' acquisition of morphological, syntactic, discursive, pragmatic, lexical and phonological structures. It appeals to students, researchers, and professionals in the field.

## Machine Learning: ECML-93

# European Conference on Machine Learning, Vienna, Austria, April 5-7, 1993. Proceedings

**Springer Science & Business Media** This volume contains the proceedings of the European Conference on Machine Learning (ECML-93), continuing the tradition of the five earlier EWSLs (European Working Sessions on Learning). The aim of these conferences is to provide a platform for presenting the latest results in the area of machine learning. The ECML-93 programme included invited talks, selected papers, and the presentation of ongoing work in poster sessions. The programme was completed by several workshops on specific topics. The volume contains papers related to all these activities. The first chapter of the proceedings contains two invited papers, one by Ross Quinlan and one by Stephen Muggleton on inductive logic programming. The second chapter contains 18 scientific papers accepted for the main sessions of the conference. The third chapter contains 18 shorter position papers. The final chapter includes three overview papers related to the ECML-93 workshops.

# Evaluation of Human Work, 2nd Edition

**CRC Press** Comprising a compendium of ergonomics methods and techniques, this text covers every aspect of human work. This edition provides a reworking of existing chapters on the framework and context of methodology, the observation of performance, task analysis, experimental and study design, data collection, product assessment, environmental assessments, measurement of work and the evaluation of work systems. New chapters cover topics including: the human-computer interface; computer-aided design; work stress; psychophysiological function; risk evaluation; fieldwork; and participatory work design.

# Machine Learning - EWSL-91

# European Working Session on Learning, Porto, Portugal, March

## 6-8, 1991. Proceedings

**Springer Science & Business Media** In this book contemporary knowledge of superconductivity is set against its historical background. First, the highlights of superconductivity research in the twentieth century are reviewed. Further contributions then describe the basic phenomena resulting from the macroscopic quantum state of superconductivity (such as zero resistivity, the Meissner-Ochsenfeld effect, and flux quantization) and review possible mechanisms, including the classical BCS theory and the more recent alternative theories. The main categories of superconductors - elements, intermetallic phases, chalcogenides, oxides and organic compounds - are described. Common features and differences in their structure and electronic properties are pointed out. This broad overview of superconductivity is completed by a discussion of properties related to the coherence length. Newcomers to the field who seek an overall picture of research in superconductivity, and of the cross-links between its branches, will find this volume especially useful.

## Clinical Management of Herpes Viruses

**IOS Press** Much has been said about managing herpesvirus infections since the discovery of acyclovir more than 15 years ago. This book aims to bring practical advice to the key clinician who is faced with managing these infections. It addresses questions like: there are antiviral treatments for many of these infections, but who should be getting these drugs and who should not? What are the advantages, if any, of the new drugs over the old ones? Which patients should be targeted for intervention? What is the clinical reality of antiviral resistance? Where do the up and coming vaccines fit into the picture? When should therapy be discontinued or reassessed? How are patients presenting other than chorioretinitis in AIDS or pneumonitis in transplantation? The contributing clinician scientists deal with these questions and many more. Listed by Biological Abstracts/RRM, BIOSIS, volume 48, issue 8, August 1995 Covered by Current Contents, Life Sciences (ISI), volume 39, no. 2, Januari 1996, p. 12

## The Practice of Enterprise Modeling 12th IFIP Working Conference,

# PoEM 2019, Luxembourg, Luxembourg, November 27–29, 2019, Proceedings

**Springer Nature** This volume constitutes the proceedings of the 12th IFIP WG 8.1 Conference on the Practice of Enterprise Modeling held in November 2019 in Luxembourg, Luxembourg. The conference was created by the International Federation for Information Processing (IFIP) Working Group 8.1 to offer a forum for knowledge transfer and experience sharing between the academic and practitioner communities. The 15 full papers accepted were carefully reviewed and selected from 35 submissions. They are grouped by the following topics: modeling and ontologies; reference architectures and patterns; methods for architectures and models; and enterprise architecture for security, privacy and compliance.

# Trends in Computer Science, Engineering and Information Technology

# First International Conference, CCSEIT 2011, Tirunelveli, Tamil Nadu, India, September 23-25, 2011, Proceedings

**Springer** This book constitutes the refereed proceedings of the First International Conference on Computer Science, Engineering and Information Technology, CCSEIT 2011, held in Tirunelveli, India, in September 2011. The 73 revised full papers were carefully reviewed and selected from more than 400 initial submissions. The papers feature significant contributions to all major fields of the Computer Science and Information Technology in theoretical and practical aspects.

# FGCS '92

## Fifth Generation Computer Systems 1992

IOS Press

### Systems Science

### Addressing Global Issues

**Springer Science & Business Media** As we approach the end of the 20th century we can look back upon the achievements that have been made in a variety of human endeavours with pride. Enormous strides have been made to improve the quality of life of millions of people through the application of the scientific discoveries made during this and past centuries. The 20th century will be remembered as much for the mass exploitation of scientific discovery as for the discoveries themselves. The technological age has meant that the human being is able to contemplate activities which "defy" nature. For example, some of the work involved in the preparation of these proceedings has been done whilst travelling at over 500 miles per hour seven miles above the surface of the earth. It is not difficult to conjecture about the effect that this relatively recent technology has had upon a number of "systems". Air transportation has provided a number of benefits including such disparate examples such as enabling holidays, famine relief and the cross fertilisation of cultural practices from other lands. Equally, there have been undesirable effects such as enabling the means of mass destruction, interference in other cultures and the speedy transportation of disease. Moreover, the physical presence of the aeroplane itself represents the consumption of fossil fuels, a source of pollution and a change in the way that we think about life. The view expressed here is of course the view of an inhabitant of the "western world".

## Organizational Knowledge

## Dynamics: Managing Knowledge

## Creation, Acquisition, Sharing, and

# Transformation

## Managing Knowledge Creation, Acquisition, Sharing, and Transformation

**IGI Global Promoting organizational knowledge is an important consideration for any business looking toward the future. Understanding the dynamics of knowledge-intensive organizations is a crucial first step in establishing a strong knowledge base for any organization. Organizational Knowledge Dynamics: Managing Knowledge Creation, Acquisition, Sharing, and Transformation introduces the idea that organizational knowledge is composed of three knowledge fields: cognitive knowledge, emotional knowledge, and spiritual knowledge. This book is useful for graduate students, researchers, and practitioners in knowledge management, intellectual capital, human resources management, change management, and strategic management.**

## How People Learn II

### Learners, Contexts, and Cultures

**National Academies Press There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, How People Learn: Brain, Mind, Experience, and School: Expanded Edition was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. How People Learn II: Learners, Contexts, and Cultures provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report**

and takes an in-depth look at the constellation of influences that affect individual learning. *How People Learn II* will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

## Issues & Trends of Information Technology Management in Contemporary Organizations

**IGI Global** As the field of information technology continues to grow and expand, it impacts more and more organizations worldwide. The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications. This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed. This valuable book is a compilation of the latest research in the area of IT utilization and management.

## MENC Handbook of Research Methodologies

**Oxford University Press** Combining key selections from the classic *MENC Handbook of Research on Music Teaching and Learning* (Schirmer, 1992) and the widely acclaimed *New Handbook of Research on Music Teaching and Learning* (Oxford, 2002), the *MENC Handbook of Research Methodologies* presents comprehensive coverage of the most important issues in music education research in a handy and accessible format. A distinguished team of internationally recognized experts offers cogent and concise insights that provide readers with up-to-date information and references. The volume covers the most important topics in this field, including the role of research in music education, philosophical, historical, qualitative, and quantitative research, as well as assessment and its relationship to research. Practical and affordable, this volume will prove essential for students and scholars of music education. It is both an excellent starting point for those looking to gain an orientation to the field, and an up-to-date reference guide to the most effective strategies for experienced researchers, instructors, and pedagogues.

## Chaos and Society

Amsterdam : IOS Press ; Sainte-Foy, Quebec : Presses de l'Université du Québec

# ICICKM 2018 15th International Conference on Intellectual Capital Knowledge Management & Organisational Learning

Academic Conferences and publishing limited

## Contemporary Knowledge Engineering and Cognition

First Joint Workshop, Kaiserslautern,  
Germany, February 21-22, 1991,  
Proceedings

Springer Verlag "This book has its source in the question of whether any knowledge engineering tools can be applied or analyzed in cognition research and what insights and methods of cognitive science might be relevant for knowledge engineers. It presents the proceedings of a workshop organized by the Special Interest Groups Cognition and Knowledge Engineering of the German Society for Informatics, held in February 1992 in Kaiserslautern. The book is structured into three parts. The first part contrasts work in knowledge engineering with approaches from the side of the "soft sciences". The second part deals with case-based approaches in expert systems. Cognition research and the cognitive adequacy of expert systems are discussed in the third part. Contributions from Canada, England, France, Switzerland, and the USA demonstrate how knowledge engineering and cognitive science are woven together internationally."--PUBLISHER'S WEBSITE.

## Proceedings of the 1990 ACM SIGBDP Conference on Trends and

Directions in Expert Systems

October 31-November 2, 1990,  
Orlando, Florida

Acquisition Workforce

Status of Agency Efforts to Address  
Future Needs : Report to Senate  
Committee on Governmental Affairs

Annales Societatis Mathematicae  
Polonae

Fundamenta informaticae. Series IV

Design for Innovative Value

Towards a Sustainable Society

Proceedings of EcoDesign 2011: 7th  
International Symposium on  
Environmentally Conscious Design  
and Inverse Manufacturing

**Springer Science & Business Media** Since the first EcoDesign International Symposium held in 1999, this symposium has led the research and practices of environmentally conscious design of products, services, manufacturing systems, supply chain, consumption, as well as economics and society. EcoDesign 2011 - the 7th International Symposium on

**Environmentally Conscious Design and Inverse Manufacturing** - was successfully held in the Japanese old capital city of Kyoto, on November 30th - December 2nd, 2011. The subtitle of EcoDesign 2011 is to “design for value innovation towards sustainable society.” During this event, presenters discussed the way to achieve both drastic environmental consciousness and value innovation in order to realise a sustainable society.

## Global Air Transport Management and Reshaping Business Models for the New Era

**IGI Global** The air transport industry is highly vulnerable to environmental changes as was seen when the recent COVID-19 pandemic caused most airline operations to cease. However, for decades airlines have been collapsing around the globe as the business of managing airline operations has become stressed due to price competition. This is detrimental to air carriers since air transport products and services are the same. Moreover, it impacts other industries such as tourism, hotels, and restaurants, which contribute to the derailment of economic and social activities. Thus, it is essential to determine new practices and strategies that can allow air transport management to be enriched and to flourish. **Global Air Transport Management and Reshaping Business Models for the New Era** provides a comprehensive collection of knowledge on the new era of business management on air transport. It provides strategies, technologies, and tools used in the reshaping of the air transport business model. Covering topics such as customer experience, robotic process automation, and airline alliances, this major reference work is an essential resource for airline managers, supply chain specialists, air transport managers, students and faculty of higher education, libraries, researchers, economists, government officials, and academicians.

## Enhancing Academic Research and Higher Education With Knowledge Management Principles

**IGI Global** Knowledge management principles, strategies, models, tools, and techniques have been proven in government, business, and industry. More recently, knowledge management has emerged as an essential enabler for the successful pursuit of scholarly activities in higher education. Knowledge management has significant contributions to make

in capturing, storing, processing, and disseminating knowledge between and across these stakeholder entities and their processes to better support these interrelated processes and activities. Given the impetus provided by the United Nations Global Knowledge Economy Policy, institutions worldwide are actively pursuing the use of knowledge management in all facets of social and economic development. The importance of knowledge management research and application in academia is a critical element of this multifaceted endeavor. *Enhancing Academic Research and Higher Education With Knowledge Management Principles* is a compendium of cutting-edge research on the use of knowledge management in higher education and provides original, theoretical, and application-oriented research within this domain. The book will also provide insights on the management of expertise, knowledge, information, and organizational development in different types of work communities and environments. By including research on global perspectives, the implementation of knowledge management at universities, current trends in the field, and the results, this book is a valuable reference work for professionals and researchers working in the field of information and knowledge management in various disciplines, and academics, analysts, developers, students, technologists, education consultants, higher education administrators, academicians, stakeholders, and practitioners seeking to learn, improve, and expand their theoretical and applied knowledge of knowledge management tools and techniques, models, processes, and systems in higher education.

## Proceedings of the ... International IEEE Conference on Tools for Artificial Intelligence

### Proceedings

IEEE Computer Society

## Supporting Digital Humanities for Knowledge Acquisition in Modern Libraries

IGI Global Digital Humanities is a burgeoning field of research and education concerned with the intersection of technology and history, philosophy, linguistics, literature, music, cultural studies, and the arts.

**Supporting Digital Humanities for Knowledge Acquisition in Modern Libraries** aims to stand at the forefront of this emerging discipline, targeting an audience of researchers and academicians, with a special focus on the role of libraries and library staff. In addition to a collection of chapters on crucial issues surrounding the digital humanities, this volume also includes a fascinating account of the painstaking restoration efforts surrounding a 110-year-old handwritten historical source document, the results of which (never before published on this scale) culminate in a full-color, 70-page photographic reproduction of the 1904 Diary of Anna Clift Smith.

## Knowledge-Based and Intelligent Information and Engineering Systems, Part II

15th International Conference, KES 2011, Kaiserslautern, Germany, September 12-14, 2011, Proceedings, Part II

**Springer** The four-volume set LNAI 6881-LNAI 6884 constitutes the refereed proceedings of the 15th International Conference on Knowledge-Based Intelligent Information and Engineering Systems, KES 2011, held in Kaiserslautern, Germany, in September 2011. Part 2: The total of 244 high-quality papers presented were carefully reviewed and selected from numerous submissions. The 70 papers of Part 2 are organized in topical sections on web intelligence, text and multimedia mining and retrieval, intelligent tutoring systems and e-learning environments, other / misc. intelligent systems topics, methods and techniques of artificial and computational intelligence in economics, finance and decision making, workshop on seamless integration of semantic technologies in computer-supported office work (sistcow), innovations in chance discovery, advanced knowledge-based systems, recent trends in knowledge engineering, smart systems, and their applications.

# Health Care Administration Managing Organized Delivery Systems

**Jones & Bartlett Publishers Health Care Administration: Managing Organized Delivery Systems, Fifth Edition provides graduate and pre-professional students with a comprehensive, detailed overview of the numerous facets of the modern healthcare system, focusing on functions and operations at both the corporate and hospital level. The Fifth Edition of this authoritative text comprises several new subjects, including new chapters on patient safety and ambulatory care center design and planning. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.**

## Knowledge Science, Engineering and Management

### 14th International Conference, KSEM 2021, Tokyo, Japan, August 14-16, 2021, Proceedings, Part III

**Springer Nature This three-volume set constitutes the refereed proceedings of the 14th International Conference on Knowledge Science, Engineering and Management, KSEM 2021, held in Tokyo, Japan, in August 2021. The 164 revised full papers were carefully reviewed and selected from 492 submissions. The contributions are organized in the following topical sections: knowledge science with learning and AI; knowledge engineering research and applications; knowledge management with optimization and security.**

## Advances and Trends in Engineering Sciences and

## Technologies III

# Proceedings of the 3rd International Conference on Engineering Sciences and Technologies (ESaT 2018), September 12-14, 2018, High Tatras Mountains, Tatranské Matliare, Slovak Republic

**CRC Press** These are the proceedings of the 3rd International Conference on Engineering Sciences and Technologies (ESaT 2018), held from 12th - 14th September 2018 in the High Tatras Mountains, Tatranské Matliare, Slovak Republic. ESaT 2018 was organized under the auspices of the Faculty of Civil Engineering, Technical University of Košice - Slovak Republic in collaboration with Peter the Great St. Petersburg Polytechnic University - Russia after the successful organization with excellent feedback of the previous international conferences ESaT 2015 and ESaT 2016. The proceedings is covering various topics and disciplines in civil engineering sciences, such as Buildings and Architectural Engineering, Bearing Structures, Material and Environmental Engineering, Construction Technology and Management, Building Physics and Facilities, Geodesy, Surveying and Mapping, Geotechnics and Traffic Engineering. The proceedings report on new and original progress and trends in various fields of engineering sciences that will be of interest to a wide range of academics and professionals from university and industry. 116 papers originating from more than 10 countries have been accepted for publication in the conference proceedings. Each accepted paper was reviewed by two reviewers, selected according to the scientific area and orientation of the paper, which guarantees topicality, quality and an advanced level of the presented results.