Lca Based Selection For Xml Document Collections

The advent of connected, smart technologies for the built environment may promise a significant value that has to be reached to develop digital city models. At the international level, the role of digital twin is strictly related to massive amounts of data that need to be processed, which proposes several challenges in terms of digital technologies capability, computing, interoperability, simulation, calibration, and representation. In these terms, the development of 3D parametric models as digital twins to evaluate energy assessment of private and public buildings is considered one of the main challenges of the last years. The ability to gather, manage, and communicate contents related to energy saving in buildings for the development of smart cities must be considered a specificity in the age of connection to increase citizen awareness of these fields. The Handbook of Research on Developing Smart Cities Based on Digital Twins contains in-depth research focused on the description of methods, processes, and tools that can be adopted to achieve smart city goals. The book presents a valid medium for disseminating innovative data management methods related to smart city topics. While highlighting topics such as data visualization, a web-based ICT platform, and data-sharing methods, this book is ideally intended for researchers in the building industry, energy, and computer science fields; public administrators; building managers; and energy professionals along with practitioners, stakeholders, researchers, academicians, and students interested in the implementation of smart technologies for the built environment.
Integrated Design of Multiscale, Multifunctional Materials and Products is the first of its type to consider not only design of materials, but concurrent design of materials and products. In other words, materials are not just selected on the basis of properties, but the composition and/or microstructure iw designed to satisfy specific ranged sets of performance requirements. This book presents the motivation for pursuing concurrent design of materials and products, thoroughly discussing the details of multiscale modeling and multilevel robust design and provides details of the design methods/strategies along with selected examples of designing material attributes for specified system performance. It is intended as a monograph to serve as a foundational reference for instructors of courses at the senior and introductory graduate level in departments of materials science and engineering, mechanical engineering, aerospace engineering and civil engineering who are interested in next generation systems-based design of materials. First of its kind to consider not only design of materials, but concurrent design of materials and products Treatment of uncertainty via robust design of materials Integrates the "materials by design approach" of Olson/Ques Tek LLC with the "materials selection" approach of Ashby/Granta Distinquishes the processes of concurrent design of materials and products as an overall systems design problem from the field of multiscale modeling Systematic mathematical algorithms and methods are introduced for robust design of materials, rather than ad hoc heuristics--it is oriented towards a true systems approach to design of materials and products
Since the end of Dennard scaling in the early 2000s, improving the energy efficiency of computation has been the main concern of the research community and industry. The large energy efficiency gap between general-purpose processors and application-specific integrated circuits (ASICs) motivates the exploration of customizable architectures, where one can adapt the architecture to the workload. In this Synthesis lecture, we present an overview and introduction of the recent developments on energy-efficient customizable architectures, including customizable cores and accelerators, on-chip memory customization, and interconnect optimization. In addition to a discussion of the general techniques and classification of different approaches used in each area, we also highlight and illustrate some of the most successful design examples in each category and discuss their impact on performance and energy efficiency. We hope that this work captures the state-of-the-art research and development on customizable architectures and serves as a useful reference basis for further research, design, and implementation for large-scale deployment in future computing systems.
This book contains some selected papers from the International Conference on Extreme Learning Machine 2014, which was held in Singapore, December 8-10, 2014. This conference brought together the researchers and practitioners of Extreme Learning Machine (ELM) from a variety of fields to promote research and development of “learning without iterative tuning”. The book covers theories, algorithms and applications of ELM. It gives the readers a glance of the most recent advances of ELM.
14th International Conference, DASFAA 2009, Brisbane, Australia, April 21-23, 2009, Proceedings
... International Workshop, NGITS ..., Proceedings
22nd International Conference, DEXA 2011, Toulouse, France, August 29 - September 2, 2011, Proceedings, Part I
Grid Parity
Web Information Systems Engineering - WISE 2012
Sustainable Product Development
15th Pacific-Asia Conference, PAKDD 2011, Shenzhen, China, May 24-27, 2011, Proceedings, Part I

This volumes consists of 59 peer-reviewed papers, presented at the International Conference on Sustainable Design and Manufacturing (SDM-16) held in Chania, Crete Greece in April 2016. Leading-edge research into sustainable design and manufacturing aims to enable the manufacturing industry to grow by adopting more advanced technologies, and at the same time improve its sustainability by reducing its environmental impact. SDM-16 covers a wide range of topics from sustainable product design and service innovation, sustainable process and technology for the manufacturing of sustainable products, sustainable manufacturing systems and enterprises, decision support for sustainability, and the study of societal impact of sustainability including research for circular economy. Application areas are wide and varied. The book will provide an excellent overview of the latest research and development in the area of Sustainable Design and Manufacturing.
A fundamental challenge for medical informatics is to develop and apply better ways of understanding how information technologies and methods can help support the best care for every patient every day given available medical knowledge and resources. In order to provide the most effective healthcare possible, the activities of teams of health professionals have to be coordinated through well-designed processes centered on the needs of patients. For information systems to be accepted and used in such an environment, they must balance standardization based on shared medical knowledge with the flexibility required for customization to the individual patient. Developing innovative approaches to design and build evidence-based careflow management systems is essential for providing the knowledge management infrastructure of health care organizations that seeks to increase performance in delivering high quality care services by efficiently exploiting available resources. Parallel challenges arise in the organization of research at the biological and clinical levels, where the focus on systematically organizing and supporting processes of scientific inquiry by novel informatics methods and databases are in their very early stages. These Proceedings of Medinfo 2004 demonstrate the base of knowledge medical informatics professionals will collectively draw upon in the years ahead to meet these challenges and realize opportunities.
Web Chair Gabriel Pui Cheong Fung University of Queensland, Australia Regional Chairs Asia: Xiaofeng Meng Renmin University, China
The widespread use of XML in business and scientific databases has prompted the development of methodologies, techniques, and systems for effectively managing and analyzing XML data. This has increasingly attracted the attention of different research communities, including database, information retrieval, pattern recognition, and machine learning, from which several proposals have been offered to address problems in XML data management and knowledge discovery. XML Data Mining: Models, Methods, and Applications aims to collect knowledge from experts of database, information retrieval, machine learning, and knowledge management communities in developing models, methods, and systems for XML data mining. This book addresses key issues and challenges in XML data mining, offering insights into the various existing solutions and best practices for modeling, processing, analyzing XML data, and for evaluating performance of XML data mining algorithms and systems.
5th International Workshop, NGITS 2002, Caesarea, Israel, June 24-25, 2002. Proceedings
Life Cycle Analysis and Assessment in Civil Engineering: Towards an Integrated Vision
Next Generation Information Technologies and Systems
Second International Conference, SmartCom 2017, Pune, India, August 18-19, 2017, Revised Selected Papers
9th International Workshop of the Inititative for the Evaluation of XML Retrieval, INEX 2010, Vught, The Netherlands, December 13-15, 2010, The Netherlands, Revised Selected Papers
Web Information Systems and Technologies
Frameworks of IT Prosumption for Business Development

This book contains the thoroughly refereed and revised best papers from the 8th International Conference on Web Information Systems and Technologies, WEBIST 2012, held in Porto, Portugal, in April 2012, and organized by the Institute for Systems and Technologies of Information, Control and Communication (INSTICC), in collaboration with ACM SIGMIS. The 23 papers presented in this book were carefully reviewed and selected from 184 submissions. The papers were selected from those with the best reviews also taking into account the quality of their presentation at the conference. The papers are grouped into parts on Internet Technology; Web Interfaces and Applications; Society, e-Business, and e-Government; Web Intelligence; and Mobile Information Systems.
This two volume set LNCS 7238 and LNCS 7239 constitutes the refereed proceedings of the 17th International Conference on Database Systems for Advanced Applications, DASFAA 2012, held in Busan, South Korea, in April 2012. The 44 revised full papers and 8 short papers presented together with 2 invited keynote papers, 8 industrial papers, 8 demo presentations, 4 tutorials and 1 panel paper were carefully reviewed and selected from a total of 159 submissions. The topics covered are query processing and optimization, data semantics, XML and semi-structured data, data mining and knowledge discovery, privacy and anonymity, data management in the Web, graphs and data mining applications, temporal and spatial data, top-k and skyline query processing, information retrieval and recommendation, indexing and search systems, cloud computing and scalability, memory-based query processing, semantic and decision support systems, social data, data mining.
This book constitutes the thoroughly refereed post-workshop proceedings of the 9th International Workshop of the Initiative for the Evaluation of XML Retrieval, INEX 2009, held in Vught, The Netherlands, in December 2009. The aim of the INEX 2010 workshop was to bring together researchers in the field of XML IR who participated in the INEX 2010 campaign. During the past year, participating organizations contributed to the building of large-scale XML test collections by creating topics, performing retrieval runs and providing relevance assessments. The workshop concluded the results of this large-scale effort, summarized and addressed issues encountered, and devised a work plan for the future evaluation of XML retrieval systems. The 37 full papers presented were carefully reviewed and selected from 42 submissions; they are organized into sections corresponding to the nine tracks of the workshop, investigating various aspects of XML retrieval, from book search to entity.
This two volume set LNCS 5981 and LNCS 5982 constitutes the refereed proceedings of the 15th International Conference on Database Systems for Advanced Applications, DASFAA 2010, held in Tsukuba, Japan, in April 2010. The 39 revised full papers and 16 revised short papers presented together with 3 invited keynote papers, 22 demonstration papers, 6 industrial papers, and 2 keynote talks were carefully reviewed and selected from 285 submissions. The papers of the first volume are organized in topical sections on P2P-based technologies, data mining technologies, XML search and matching, graphs, spatialdatabases, XML technologies, time series and streams, advanced data mining, query processing, Web, sensor networks and communications, information management, as well as communities and Web graphs. The second volume contains contributions related to trajectories and moving objects, skyline queries, privacy and security, data streams, similarity search and event processing, storage and advanced topics, industrial, demo papers, and tutorials and panels.
Tools, Methods and Examples
An assessment framework and industrial implementation
Sustainable Design and Manufacturing 2016
Proceedings of the Sixth International Symposium on Life-Cycle Civil Engineering (IALCCE 2018), 28-31 October 2018, Ghent, Belgium
17th International Conference, DASFAA 2012, Busan, South Korea, April 15-18, 2012, Proceedings, Part I
XML Data Mining: Models, Methods, and Applications
Customizable Computing

This book constitutes the refereed proceedings of the 15th International Conference on Web-Age Information Management, WAIM 2014, held in Macau, China, in June 2014. The 48 revised full papers presented together with 35 short papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on information retrieval; recommender systems; query processing and optimization; data mining; data and information quality; information extraction; mobile and pervasive computing; stream, time-series; security and privacy; semantic web; cloud computing; new hardware; crowdsourcing; social computing.
NGITS2002 was the ?fth workshop of its kind, promoting papers that discuss new technologies in information systems. Following the success of the four p- vious workshops (1993, 1995, 1997, and 1999), the ?fth NGITS Workshop took place on June 24–25, 2002, in the ancient city of Caesarea. In response to the Call for Papers, 22 papers were submitted. Each paper was evaluated by three Program Com members. We accepted 11 papers from 3 continents and 5 countries, Israel (5 papers), US (3 papers), Germany, Cyprus, and The Netherlands (1 paper from each). The workshop program consisted of ?ve paper sessions, two keynote lectures, and one panel discussion. The topics of the paper sessions are: Advanced Query Processing, Web Applications, Moving Objects, Advanced Information Models, an Advanced Software Engineering. We would like to thank all the authors who submitted papers, the program committee members, the presenters, and everybody who assisted in making NGITS2002 a reality.
This book constitutes the refereed proceedings of the 22 International Conference on Database and Expert Systems Applications, DEXA 2011, held in Toulouse, France, August 29 - September 2, 2011. The 52 revised full papers and 40 short papers presented were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on query processing; database semantics queries; security and privacy; spatial and temporal data; semantic web search; storage and search; web search; data integration, transactions and optimization; and web applications.
Separation distinction between the roles of the producer and consumer has become blurred with the development of new science and technologies enabling the emergence of the prosumer, or the active consumer. In the IT sector, the role of the end-user has broadened to include innovation and development practices in addition to the traditional consumer activities. As such, businesses must create opport for product development and innovation by the consumers. Frameworks of IT Prosumption for Business Development investigates the latest empirical research on active use of information technology resources, enabling users with new methodologies, tools, and opportunities to impact application development processes. The objective of this reference book is to mobilize end-users to take a more active rol their own IT solutions, which will in turn assist in the development of best practices in IT at all levels.
19th Annual Symposium, CPM 2008 Pisa, Italy, June 18-20, 2008, Proceedings

Database and Expert Systems Applications
14th International Conference, Nanjing, China, October 13-15, 2013, Proceedings, Part I
theory and applications
Integrated Design of Multiscale, Multifunctional Materials and Products
15th International Conference, DASFAA 2010, Tsukuba, Japan, April 1-4, 2010, Proceedings, Part I

The two-volume set LNAI 6634 and 6635 constitutes the refereed proceedings of the 15th Pacific-Asia Conference on Knowledge Discovery and Data Mining, PAKDD 2011, held in Shenzhen, China in May 2011. The total of 32 revised full papers and 58 revised short papers were carefully reviewed and selected from 331 submissions. The papers present new ideas, original research results, and practical development experiences from all KDD-related areas including data mining, machine learning, artificial intelligence and pattern recognition, data warehousing and databases, statistics, knowledge engineering, behavior sciences, visualization, and emerging areas such as social network analysis.
This book constitutes the refereed proceedings of the Second International Conference on Smart Trends in Information Technology and Computer Communications, SmartCom 2017, held in Pune, India, in August 2017. The 38 revised papers presented were carefully reviewed and selected from 310 submissions. The papers address issues on smart and secure systems; smart and service computing; smart data and IT innovations.
Daily procedures such as scientific experiments and business processes have the potential to create a huge amount of data every day, hour, or even second, and this may lead to a major problem for the future of efficient data search and retrieval as well as secure data storage for the world s scientists, engineers, doctors, librarians, and business managers. Design, Performance, and Analysis of Innovative Information Retrieval examines a number of emerging technologies that significantly contribute to modern Information Retrieval (IR), as well as fundamental IR theories and concepts that have been adopted into new tools or systems. This reference is essential to researchers, educators, professionals, and students interested in the future of IR.
Java Enterprise Edition (Java EE) continues to be one of the leading Java technologies and platforms. Beginning Java EE 7 is the first tutorial book on Java EE 7. Step by step and easy to follow, this book describes many of the Java EE 7 specifications and reference implementations, and shows them in action using practical examples. This definitive book also uses the newest version of GlassFish to deploy and administer the code examples. Written by an expert member of the Java EE specification request and review board in the Java Community Process (JCP), this book contains the best information possible, from an expert ’ s perspective on enterprise Java technologies. What you ’ ll learn Get started with the latest version of the Java EE Platform. Explore and use the EJB and JPA APIs from entities to session beans to message driven beans, and more. Discover web tier development APIs including JSF, Facelets and Expression Language. Uncover SOAP web services, RESTful web services, and more available in this latest Java EE. Create dynamic user interfaces for your enterprise and transactional Java applications. Who this book is for This book is for Java or Spring programmers with some experience and those new to Java EE platform. Architects will also find information about how to layer their Java EE applications. Table of Contents Java EE 7 Environment Context and Dependency Injection Bean Validation Java Persistence API Object-Relational Mapping Managing Persistent Object Enterprise Java Beans Callbacks, Timer Service, and Authorization Interceptors and Transactions JavaServer Faces Processing and Navigation XML and JSON Messaging SOAP Web Services RESTful Web Service
24th British National Conference on Databases, BNCOD 24, Glasgow, UK, July 3-5, 2007, Proceedings
Applications
Beginning Java EE 7
Keyword Search in Databases
An Introduction to XML Query Processing and Keyword Search
Tree pattern constraints for XML
Advanced Standard SQL Dynamic Structured Data Modeling and Hierarchical Processing

Grid Parity provides an in-depth examination of the knowledge, insights, and techniques that are essential to success in financing renewable energy projects. An energy project finance expert with 35 years of experience in capital asset financing, the author provides a comprehensive overview of how to finance renewable energy projects in America today. He explores all components of "the deal" including tax, accounting, legal, regulatory, documentation, asset management and legislative drivers to this dynamic growth sector. Filled with case studies, the book provides a thorough examination of what it takes to compete in the green-energy marketplace.
This book constitutes the refereed proceedings of the 5th International XML Database Symposium, XSym 2007, held in Vienna, Austria, in September 2007 in conjunction with the International Conference on Very Large Data Bases, VLDB 2007. The papers cover all current aspects of core database technology for XML data management, XML and data integration, and development and deployment of XML applications.
The modern world is developing at a pace where few can thoroughly keep track of its progress. More advancements in technology, evolving standards of education, and ongoing cultural and societal developments are leading to a need for improved pathways of knowledge discovery and dissemination. Knowledge-Intensive Economies and Opportunities for Social, Organizational, and Technological Growth provides emerging research exploring how academic research can represent both a bold response to the problems society faces today and a source of alternative solutions to those problems. This publication is derived from the basic understanding that education plays the role of the key enabler in the process of navigating these contemporary challenges. Featuring coverage on a broad range of topics such as e-service exploration, progressive online learning in urban areas, and advances in multimedia sharing, this book is ideally designed for consultants, academics, industry professionals, policymakers, politicians, and government officials seeking current research on the impact of information technology and the knowledge-based era.
This book constitutes the refereed proceedings of the 16th Asia-Pacific Conference APWeb 2014 held in Changsha, China, in September 2014. The 34 full papers and 23 short papers presented were carefully reviewed and selected from 134 submissions. The papers address research, development and advanced applications of large-scale data management, web and search technologies, and information processing.
Semantic Search over the Web
Web-Age Information Management
Web Information Systems Engineering -- WISE 2013
16th Asia-Pacific Web Conference, APWeb 2014, Changsha, China, September 5-7, 2014. Proceedings
Smart Trends in Information Technology and Computer Communications
Life Cycle Assessment
Knowledge-Intensive Economies and Opportunities for Social, Organizational, and Technological Growth

This book constitutes the proceedings of the 14th International Conference on Web Information Systems Engineering, WISE 2013, held in Nanjing, China, in October 2013. The 48 full papers, 29 short papers, and 10 demo and 5 challenge papers, presented in the two-volume proceedings LNCS 8180 and 8181, were carefully reviewed and selected from 198 submissions. They are organized in topical sections named: Web mining; Web recommendation; Web services; data engineering and database; semi-structured data and modeling; Web data integration and hidden Web; challenge; social Web; information extraction and multilingual management; networks, graphs and Web-based business processes; event processing, Web monitoring and management; and innovative techniques and creations.
This book constitutes the proceedings of the 13th International Conference on Web Information Systems Engineering, WISE 2012, held in Paphos, Cyprus, in November 2012. The 44 full papers, 13 short papers, 9 demonstrations papers and 9 “challenge” papers were carefully reviewed and selected from 194 submissions. The papers cover various topics in the field of Web Information Systems Engineering.
Web Information Systems Engineering -- WISE 201314th International Conference, Nanjing, China, October 13-15, 2013, Proceedings, Part ISpringer
This book constitutes the refereed proceedings of the 30th International Conference on Conceptual Modeling, ER 2011, held in Brussels, Belgium, in October/November 2011. The 25 revised full papers presented together with 14 short papers and three keynotes were carefully reviewed and selected from 157 submissions. The papers are organized in topical sections on modeling goals and compliance; human and socio-technical factors; ontologies; data model theory; model development and maintainability; user interfaces and software classification; evolution, propagation and refinement; UML and requirements modeling; views, queries and search; requirements and business intelligence; MDA and ontology-based modeling; process modeling; panels.
8th International Conference, WEBIST 2012, Porto, Portugal, April 18-21, 2012, Revised Selected Papers
Models, Methods, and Applications
Design, Performance, and Analysis of Innovative Information Retrieval
Medinfo
New Developments and Multi-disciplinary Applications
5th International XML Database Symposium, XSym 2007, Vienna, Austria, September 23-24, 2007, Proceedings
The Art of Financing Renewable Energy Projects in the U.S.

"An Introduction to XML Query Processing and Keyword Search" systematically and comprehensively covers the latest advances in XML data searching. It presents an extensive overview of the current query processing and keyword search techniques on XML data, including XML labeling schemes, indexing, processing on order and un-order XML tree patterns, XML query optimization, results estimation, and XML keyword searches, which are elaborated in separate chapters. Graduate students and researchers in the field of XML data searching will find this book an invaluable resource. Prof. Jiaheng Lu is an associate professor at Renmin University of China’s School of Information.
Originally published in 1949 and appearing now for the first time in a paperbound edition, Buck's Dictionary remains an indispensable tool for diachronic analysis of the Indo-European languages. Arranged according to the meaning of words, the work contains more than 1,000 groupings of synonyms from the principal Indo-European languages. Buck first tabulates the words describing a particular concept and then discusses their etymological and semantic history, tracing changes in meaning of the root words as well as presenting cases indicating which of the older forms have been replaced by expressions of colloquial or foreign origin.
The Web has become the world’s largest database, with search being the main tool that allows organizations and individuals to exploit its huge amount of information. Search on the Web has been traditionally based on textual and structural similarities, ignoring to a large degree the semantic dimension, i.e., understanding the meaning of the query and of the document content. Combining search and semantics gives birth to the idea of semantic search. Traditional search engines have already advertised some semantic dimensions. Some of them, for instance, can enhance their generated result sets with documents that are semantically related to the query terms even though they may not include these terms. Nevertheless, the exploitation of the semantic search has not yet reached its full potential. In this book, Roberto De Virgilio, Francesco Guerra and Yannis Velegrakis present an extensive overview of the work done in Semantic Search and other related areas. They explore different technologies and solutions in depth, making their collection a valuable and stimulating reading for both academic and industrial researchers. The book is divided into three parts. The first introduces the readers to the basic notions of the Web of Data. It describes the different kinds of data that exist, their topology, and their storing and indexing techniques. The second part is dedicated to Web Search. It presents different types of search, like the exploratory or the path-oriented, alongside methods for their efficient and effective implementation. Other related topics included in this part are the use of uncertainty in query answering, the exploitation of ontologies, and the use of semantics in mashup design and operation. The focus of the third part is on linked data, and more specifically, on applying ideas originating in recommender systems on linked data management, and on techniques for the efficiently querying answering on linked data.
This book features the refereed proceedings from the 24th British National Conference on Databases, held in Glasgow, Scotland in July 2007. The eighteen full papers and seven poster papers are presented, together with two invited contributions. Papers are organized into topical sections covering data applications, searching XML documents, querying XML documents, XML transformation, clustering and security, data mining, and extraction.
Data Management. Data, Data Everywhere
Proceedings of ELM-2014 Volume 2
Web Technologies and Applications
13th International Conference, Paphos, Cyprus, November 28-30, 2012, Proceedings
Combinatorial Pattern Matching
30th International Conference on Conceptual Modeling, Brussels, Belgium, October 31 - November 3, 2011. Proceedings

This book offers a comprehensive review of sustainability and product design, providing useful information on the relevant regulations and standards for industries to meet increasing market demands for eco-products, while reducing their impact on the environment. The examples and methods presented allow readers to gain insights into sustainable products. The authors also explain how to develop products with sustainability features by applying tools and methods for sustainable design and manufacture. These tools/methods include • Regulations/directives related to sustainable product development • Popular lifecycle analysis software packages • Environmental and social lifecycle impact assessment methods • Lifecycle inventory databases • Eco-point and eco-accounting infrastructure • ICT and traceability technologies for sustainable product development • Sustainable design and manufacture • Integrated approach for sustainable product development A description of each sustainability tool is accompanied by easy-to-understand guidelines as well as sustainable product development methods. Five different case studies are also presented to illustrate how to apply the tools and methods into the development of real sustainable products. In view of the increasing pressure on industries to meet the, sometimes conflicting, demands of the market and environment, this book is a valuable resource for engineers and managers in manufacturing companies wishing to update their knowledge of sustainable product development. It is also suitable for researchers and consultants who are involved or interested in sustainable product development, as well as for students studying sustainable development, production, and engineering management.
Based on the Artech House classic ANSI SQL Data Modeling and Structure Processing, this expanded and updated book offers you an essential tool for utilizing the ANSI SQL outer join operation to perform simple or complex hierarchical data modeling and structure processing. The book provides you with a comprehensive review of the outer join operation, its powerful syntax and semantics, and new features and capabilities. This revised resource introduces several important new concepts such as relationship and hierarchical integration at the hierarchical processing level, multipath hierarchical automatic XML query processing, dynamic structured data processing using automatic metadata maintenance, and advanced data transformations. Featuring more than 230 illustrations, the book shows you how to tap the full power of data structure extraction technology that gathers data structure meta information naturally embedded in ANSI SQL specifications. You discover existing, but previously unknown, SQL capabilities for improving performance. The book explains how to perform multitable outer joins and combine relational structures with hierarchical structures. Moreover you learn how to establish a default database standard for hierarchical data modeling and structure processing.
This book constitutes the refereed proceedings of the 19th Annual Symposium on Combinatorial Pattern Matching, CPM 2008, held in Pisa, Italy, in June 2008. The 25 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 78 submissions. The papers address all areas related to combinatorial pattern matching and its applications, such as coding and data compression, computational biology, data mining, information retrieval, natural language processing, pattern recognition, string algorithms, string processing in databases, symbolic computing and text searching.
This volume contains the papers presented at IALCCE2018, the Sixth International Symposium on Life-Cycle Civil Engineering (IALCCE2018), held in Ghent, Belgium, October 28-31, 2018. It consists of a book of extended abstracts and a USB device with full papers including the Fazlur R. Khan lecture, 8 keynote lectures, and 390 technical papers from all over the world. Contributions relate to design, inspection, assessment, maintenance or optimization in the framework of life-cycle analysis of civil engineering structures and infrastructure systems. Life-cycle aspects that are developed and discussed range from structural safety and durability to sustainability, serviceability, robustness and resilience. Applications relate to buildings, bridges and viaducts, highways and runways, tunnels and underground structures, off-shore and marine structures, dams and hydraulic structures, prefabricated design, infrastructure systems, etc. During the IALCCE2018 conference a particular focus is put on the cross-fertilization between different sub-areas of expertise and the development of an overall vision for life-cycle analysis in civil engineering. The aim of the editors is to provide a valuable source of cutting edge information for anyone interested in life-cycle analysis and assessment in civil engineering, including researchers, practising engineers, consultants, contractors, decision makers and representatives from local authorities.
Database and XML Technologies
15th International Conference, WAIM 2014, Macau, China, June 16-18, 2014, Proceedings
A Dictionary of Selected Synonyms in the Principal Indo-European Languages
Advances in Knowledge Discovery and Data Mining
Mass Customization and Sustainability
Comparative Evaluation of Focused Retrieval
Handbook of Research on Developing Smart Cities Based on Digital Twins

To adapt to global competitive pressures, manufacturers must develop methods and enabling technologies towards a personalized, customer oriented and sustainable manufacturing. Mass Customization and Sustainability defines the two concepts of mass customization and sustainability and introduces a framework to establish a link between the two concepts to answer the questions: Are these two aspects empowering one another? Or are they hindering one another? These questions investigate mass customization as one of the main driving forces to achieve effective sustainability. A methodology to assess the contribution of mass customization to sustainability is developed, providing an assessment model composed by a set of indicators covering the three aspects of sustainability: social, economical and environmental. This is supported and further explained using ideas and new concepts compiled from recent European research. Researchers, scientists, managers and industry professionals alike can follow a set of practical examples and industrial cases, enabling them to easily transfer Mass Customization and Sustainability theoretical concepts into actions to be enforced into their everyday business for gaining competitiveness. Mass Customization and Sustainability also introduces useful concepts for government officials responsible for establishing sustainable policies and regulations, offering methods to compare the results of implementation of such policies.
It has become highly desirable to provide users with flexible ways to query/search information over databases as simple as keyword search like Google search. This book surveys the recent developments on keyword search over databases, and focuses on finding structural information among objects in a database using a set of keywords. Such structural information to be returned can be either trees or subgraphs representing how the objects, that contain the required keywords, are interconnected in a relational database or in an XML database. The structural keyword search is completely different from finding documents that contain all the user-given keywords. The former focuses on the interconnected object structures, whereas the latter focuses on the object content. The book is organized as follows. In Chapter 1, we highlight the main research issues on the structural keyword search in different contexts. In Chapter 2, we focus on supporting structural keyword search in a relational database management system using the SQL query language. We concentrate on how to generate a set of SQL queries that can find all the structural information among records in a relational database completely, and how to evaluate the generated set of SQL queries efficiently. In Chapter 3, we discuss graph algorithms for structural keyword search by treating an entire relational database as a large data graph. In Chapter 4, we discuss structural keyword search in a large tree-structured XML database. In Chapter 5, we highlight several interesting research issues regarding keyword search on databases. The book can be used as either an extended survey for people who are interested in the structural keyword search or a reference book for a postgraduate course on the related topics. Table of Contents: Introduction / Schema-Based Keyword Search on Relational Databases / Graph-Based Keyword Search / Keyword Search in XML Databases / Other Topics for Keyword Search on Databases
Conceptual Modeling – ER 2011