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Smart Card Research and Advanced Applications **Chemical Thermodynamics: Advanced Applications** **Database Systems for Advanced Applications** Smart Card Research and Advanced Applications *Textiles for Advanced Applications* **Database Systems for Advanced Applications** **Nanostructured Carbon for Advanced Applications** *Numerical Mathematics and Advanced Applications* **Advanced Applications of Rapid Prototyping Technology in Modern Engineering** *Smart Card Research and Advanced Applications* **Database Systems for Advanced Applications** **Database Systems for Advanced Applications '97** Database Systems for Advanced Applications '93 **Database Systems for Advanced Applications** **Numerical Mathematics and Advanced Applications** **Advanced Applications of Ionic Liquids** **Database Systems For Advanced Applications '91 - Proceedings Of The 2nd International Symposium On Database Systems For Advanced Applications** *Database Systems for Advanced Applications* *Numerical Mathematics and Advanced Applications ENUMATH 2017* **Advanced Applications of Natural Language Processing for Performing Information Extraction** **Advanced Power Applications for System Reliability Monitoring** **Semantics Empowered Web 3.0** **Solid Electrolytes for Advanced Applications** *Database Systems for Advanced Applications* Moving To The Cloud **Telecommunication Systems** *Database and Expert Systems Applications* *Expert ASP.NET 2.0 Advanced Application Design* Database Systems for Advanced Applications. DASFAA 2021 International Workshops **Sensors and Their Applications XI** **Advanced Statistics with Applications in R** The Labour Gazette The Board of Trade Labour Gazette **Propensity Score Analysis** **Computational Electromagnetics** *Linear Integer Programming* *You Are the Value* *Advanced Technologies, Systems, and Applications IV -Proceedings of the International Symposium on Innovative and Interdisciplinary Applications of Advanced Technologies (IAT 2019)* **Hydrophilic Interaction Liquid Chromatography (HILIC) and Advanced Applications** **Introduction to Quantitative Reasoning**

This book presents the state-of-the-art methods in Linear Integer Programming, including some new algorithms and heuristic methods developed by the authors in recent years. Topics as Characteristic equation (CE), application of CE to bi-objective and multi-objective problems, Binary integer problems, Mixed-integer models, Knapsack models, Complexity reduction, Feasible-space reduction, Random search, Connected graph are also treated. This volume contains the proceedings of the Fifth International Conference on Database Systems for Advanced Applications (DASFAA '97). DASFAA '97 focused on advanced database technologies and their applications. The 55 papers in this volume cover a wide range of areas in the field of database systems and applications ? including the rapidly emerging areas of the Internet, multimedia, and document database systems ? and should be of great interest to all database system researchers and developers, and practitioners. The Database and Expert Systems Applications (DEXA) conferences have established themselves as a platform for bringing together researchers and practitioners from various backgrounds and all regions of the world to exchange ideas, experiences and opinions in a friendly and stimulating environment. The papers presented at the conference represent recent developments in the field and important steps towards shaping the future of applied computer science and information systems. DEXA covers a broad field: all aspects of databases, knowledge based systems, knowledge management, web-based systems, information systems, related technologies and their applications. Once again there were a good number of submissions: out of 183 papers that were submitted, the program committee selected 92 to be presented. In the first year of this new millennium DEXA has come back to the United Kingdom, following events in Vienna, Berlin, Valencia, Prague, Athens, London, Zurich, Toulouse, Vienna and Florence. The past decade has seen several revolutionary developments, one of which was the explosion of Internet-related applications in the areas covered by DEXA, developments in which DEXA has played a role and in which DEXA will continue to play a role in its second decade, starting with this conference. This book presents the scientific outcomes of the conference 11th Days of Bosnian-Herzegovinian American Academy of Arts and Sciences, held in Sarajevo, Bosnia and Herzegovina,

June 20–23, 2019. Including innovative applications of advanced technologies, it offers a uniquely comprehensive, multidisciplinary and interdisciplinary overview of the latest developments in a broad range of technologies and methodologies, viewed through the prism of computing, networking, information technology, robotics, complex systems, communications, energy, mechanical engineering, economics and medicine, among others. This book constitutes the refereed proceedings of the 9th IFIP WG 8.8/11.2 International Conference on Smart Card Research and Advanced Application, CARDIS 2010, held in Passau, Germany, in April 2010. The 16 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on mathematical algorithms; side channel analysis; systems; logical attacks; fault analysis; and privacy. Moving to the Cloud provides an in-depth introduction to cloud computing models, cloud platforms, application development paradigms, concepts and technologies. The authors particularly examine cloud platforms that are in use today. They also describe programming APIs and compare the technologies that underlie them. The basic foundations needed for developing both client-side and cloud-side applications covering compute/storage scaling, data parallelism, virtualization, MapReduce, RIA, SaaS and Mashups are covered. Approaches to address key challenges of a cloud infrastructure, such as scalability, availability, multi-tenancy, security and management are addressed. The book also lays out the key open issues and emerging cloud standards that will drive the continuing evolution of cloud computing. Includes complex case studies of cloud solutions by cloud experts from Yahoo! , Amazon, Microsoft, IBM, Adobe and HP Labs Presents insights and techniques for creating compelling rich client applications that interact with cloud services Demonstrates and distinguishes features of different cloud platforms using simple to complex API programming examples The three-volume set LNCS 12681-12683 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2021, held in Taipei, Taiwan, in April 2021. The total of 156 papers presented in this three-volume set was carefully reviewed and selected from 490 submissions. The topic areas for the selected papers include information retrieval, search and recommendation techniques; RDF, knowledge graphs, semantic web, and knowledge management; and spatial, temporal, sequence, and streaming data management, while the dominant keywords are network, recommendation, graph, learning, and model. These topic areas and keywords shed the light on the direction where the research in DASFAA is moving towards. Due to the Corona pandemic this event was held virtually. These proceedings collect the major part of the lectures given at ENU MATH2003, the European Conference on Numerical Mathematics and Ad vanced Applications, held in Prague, Czech Republic, from 18 August to 22 August, 2003. The importance of numerical and computational mathematics and sci entific computing is permanently growing. There is an increasing number of different research areas, where numerical simulation is necessary. Let us men tion fluid dynamics, continuum mechanics, electromagnetism, phase transi tion, cosmology, medicine, economics, finance, etc. The success of applications of numerical methods is conditioned by changing its basic instruments and looking for new appropriate techniques adapted to new problems as well as new computer architectures. The ENUMATH conferences were established in order to provide a fo rum for discussion of current topics of numerical mathematics. They seek to convene leading experts and young scientists with special emphasis on con tributions from Europe. Recent results and new trends are discussed in the analysis of numerical algorithms as well as in their applications to challenging scientific and industrial problems. The first ENUMATH conference was organized in Paris in 1995, then the series continued by the conferences in Heidelberg 1997, Jyvaskyla 1999 and Ischia Porto 2001. It was a great pleasure and honour for the Czech numerical community that it was decided at Ischia Porto to organize the ENUMATH2003 in Prague. It was the first time when this conference crossed the former Iron Courtain and was organized in a postsocialist country. This book presents a global view of the development and applications of technical textiles with the description of materials, structures, properties, characterizations, functions and relevant production technologies, case studies, challenges, and opportunities. Technical textile is a transformative research area, dealing with the creation and studies of new generations of textiles that hoist many new scientific and technological challenges that have never been encountered before. The book emphasizes more on the principles of textile science and technology to provide solutions to several engineering problems. All chapter topics are exclusive and selectively chosen and designed, and they are extensively explored by different authors having specific knowledge in each area. With research continuing to expand and develop, the marketplace for sensors and instrumentation remains one of the most significant for the United Kingdom, the European Union, and the economies of major developed nations. Sensors and Their Applications XI discusses novel research in the field of sensors and transducers, and provides valuable insight into new and topical applications of the technology. The book records the breadth and quality of the field and acts as a topical record of work in sensors and their applications. It will serve as an invaluable reference for physicists, engineers, and chemists working in this area of technology for many years to come. This volume constitutes the refereed proceedings of the 7th International Conference on Smart Card Research and Advanced Applications, CARDIS 2006, held in Tarragona, Spain, in April 2006. The 25 revised full papers presented were carefully reviewed and updated for inclusion in this book. The papers are organized in topical sections on smart card applications, side channel attacks, smart card networking, cryptographic protocols,

RFID security, and formal methods. The three-volume set LNCS 12681-12683 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2021, held in Taipei, Taiwan, in April 2021. The total of 156 papers presented in this three-volume set was carefully reviewed and selected from 490 submissions. The topic areas for the selected papers include information retrieval, search and recommendation techniques; RDF, knowledge graphs, semantic web, and knowledge management; and spatial, temporal, sequence, and streaming data management, while the dominant keywords are network, recommendation, graph, learning, and model. These topic areas and keywords shed the light on the direction where the research in DASFAA is moving towards. Due to the Corona pandemic this event was held virtually. Advanced Statistics with Applications in R fills the gap between several excellent theoretical statistics textbooks and many applied statistics books where teaching reduces to using existing packages. This book looks at what is under the hood. Many statistics issues including the recent crisis with p-value are caused by misunderstanding of statistical concepts due to poor theoretical background of practitioners and applied statisticians. This book is the product of a forty-year experience in teaching of probability and statistics and their applications for solving real-life problems. There are more than 442 examples in the book: basically every probability or statistics concept is illustrated with an example accompanied with an R code. Many examples, such as Who said ?? What team is better? The fall of the Roman empire, James Bond chase problem, Black Friday shopping, Free fall equation: Aristotle or Galilei, and many others are intriguing. These examples cover biostatistics, finance, physics and engineering, text and image analysis, epidemiology, spatial statistics, sociology, etc. Advanced Statistics with Applications in R teaches students to use theory for solving real-life problems through computations: there are about 500 R codes and 100 datasets. These data can be freely downloaded from the author's website dartmouth.edu/~eugened. This book is suitable as a text for senior undergraduate students with major in statistics or data science or graduate students. Many researchers who apply statistics on the regular basis find explanation of many fundamental concepts from the theoretical perspective illustrated by concrete real-world applications. Introduction to QR, Quantitative Reasoning and Discrete Mathematics was designed for the introductory college student who may not have fully understood mathematical concepts in secondary schools. With a focus on applications, this book is divided into small digestible pieces with lots of examples illustrating a variety of topics. Use the whole book for a two semester sequence, or pick and choose topics to make a single semester course. The most basic of algebra topics are reintroduced, with an emphasis on learning how to translate scenarios into problems that can be solved or modeled with linear functions. Scientific notation and significant figures are applied to problems involving unit conversion, including examples with the Consumer Price Index. The basics of personal finance are explained, including interest, loans, mortgages, and taxes. Statistical topics are introduced to give the students the ability to look critically at the myriad of numerical sound bites tossed out in today’s social media. Combinatorics and probability topics are introduced in a way to be accessible to students seeing the material for the first time. Logic and graph theory are used to solve some traditional types of games and puzzles. Applications are connected to issues in modern Christianity with references to 18th century philosopher Emanuel Swedenborg, including why Intelligent Design does not act as proof of God, and how random chance and Divine Providence work together. Each chapter ends with a project related to the chapter, often involving spreadsheet programs or website data collection. About the Author Neil Simonetti, PhD, Professor of Mathematics and Computer Science at Bryn Athyn College, has been teaching Mathematics, Computer Science and Operations Research courses for almost 20 years. He is committed to showing students who are afraid of mathematics that the basics of this subject do not have to be difficult and confusing. This work results from discovering what these students need in mathematics to succeed in business, science, and social science courses. The 9th International Conference on Database Systems for Advanced Applications (DASFAA 2004) was held during March 17-19, 2004 on the beautiful Jeju island of Korea. The DASFAA conference provides an international forum for technical discussions among researchers, developers, and users of database - stems from academia, business, and industry. The main focus of DASFAA is on research in database theory, development of advanced DBMS technologies, and their advanced applications. A premier database conference in the Asia/Pacific region, DASFAA has been held every two years, and in many countries in the region. To promote the area further and to answer the needs of many participants, the steering committee decided to hold the conference annually. DASFAA 2004 was the first such annual conference. The conference was organized by the Special Interest Group on Databases (SIGDB) of the Korea Information Science Society and the Advanced Information Technology Research Center (AITrc) at KAIST - an engineering research center of excellence (ERC) supported by the Korea Science and Engineering Foundation (KOSEF). We had a number of sponsors who made generous contributions to make the conference successful. They are Oracle Korea, Samsung SDS, Korea Telecom Data, Inc., the United States Air Force Office of Scientific Research, the Asian Office of Aerospace Research & Development, the Army Research Office-Far East, and the Korea Advanced Institute of Science and Technology (KAIST). This book highlights the state of the art in solid electrolytes, with particular emphasis on lithium garnets, electrolyte-electrode interfaces and all-solid-state batteries based on lithium garnets. Written by an international group of renowned experts, the book addresses how

garnet-type solid electrolytes are contributing to the development of safe high energy density Li batteries. Unlike the flammable organic liquid electrolyte used in existing rechargeable Li batteries, garnet-type solid electrolytes are intrinsically chemically stable in contact with metallic lithium and potential positive electrodes, while offering reasonable Li conductivity. The book's respective chapters cover a broad spectrum of topics related to solid electrolytes, including interfacial engineering to resolve the electrolyte-electrode interfaces, the latest developments in the processing of thin and ultrathin lithium garnet membranes, and fabrication strategies for the high-performance solid-state batteries.This highly informative and intriguing book will appeal to postgraduate students and researchers at academic and industrial laboratories with an interest in the advancement of high energy-density lithium metal batteries This book provides an authoritative overview of the global development of surgical paediatrics. Biographical accounts of key people who developed this relatively new specialty, many of whom are now household names, are presented. The compendium also acknowledges the enormous contribution of imaging (ultrasound/MRI and PET scans), minimal invasive surgery, and fetal surgery, as well as the role of related journals and associations, in the progress of surgical paediatrics.Many of the contributors have been instrumental to the development of surgical paediatrics in their respective countries, and have considerable worldwide influence on the management of children requiring surgical care. Through their valuable insight and first-hand experience, this book not only shines a light on the past achievements of previous generations of paediatric surgeons, but also serves as a model to encourage future generations to do likewise. This is the first book that comprehensively and systematically describes the new technology of hydrophilic interaction liquid chromatography (HILIC). Hydrophilic interaction chromatography is a separation technique suitable for polar and hydrophilic compounds and orthogonal to reversed phase liquid chromatography. From small organic molecules to pr This book is based on both industrial and academic research efforts in which a number of recent advancements and rare insights into telecommunication systems are well presented. The volume is organized into four parts: "Telecommunication Protocol, Optimization, and Security Frameworks", "Next-Generation Optical Access Technologies", "Convergence of Wireless-Optical Networks" and "Advanced Relay and Antenna Systems for Smart Networks." Chapters within these parts are self-contained and cross-referenced to facilitate further study. The three-volume set LNCS 13245, 13246 and 13247 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2022, held online, in April 2021. The total of 72 full papers, along with 76 short papers, are presented in this three-volume set was carefully reviewed and selected from 543 submissions. Additionally, 13 industrial papers, 9 demo papers and 2 PhD consortium papers are included. The conference was planned to take place in Hyderabad, India, but it was held virtually due to the COVID-19 pandemic. This book constitutes the refereed proceedings of the 11th International Conference on Database Systems for Advanced Applications, DASFAA 2006, held in Singapore in April 2006. 46 revised full papers and 16 revised short papers presented were carefully reviewed and selected from 188 submissions. Topics include sensor networks, subsequence matching and repeating patterns, spatial-temporal databases, data mining, XML compression and indexing, xpath query evaluation, uncertainty and streams, peer-to-peer and distributed networks and more. Emerging Topics in Computational Electromagnetics in Computational Electromagnetics presents advances in Computational Electromagnetics. This book is designed to fill the existing gap in current CEM literature that only cover the conventional numerical techniques for solving traditional EM problems. The book examines new algorithms, and applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment by using the existing techniques. The authors discuss solution techniques for problems arising in nanotechnology, bioEM, metamaterials, as well as multiscale problems. They present techniques that utilize recent advances in computer technology, such as parallel architectures, and the increasing need to solve large and complex problems in a time efficient manner by using highly scalable algorithms. After the traditional document-centric Web 1.0 and user-generated content focused Web 2.0, Web 3.0 has become a repository of an ever growing variety of Web resources that include data and services associated with enterprises, social networks, sensors, cloud, as well as mobile and other devices that constitute the Internet of Things. These pose unprecedented challenges in terms of heterogeneity (variety), scale (volume), and continuous changes (velocity), as well as present corresponding opportunities if they can be exploited. Just as semantics has played a critical role in dealing with data heterogeneity in the past to provide interoperability and integration, it is playing an even more critical role in dealing with the challenges and helping users and applications exploit all forms of Web 3.0 data. This book presents a unified approach to harness and exploit all forms of contemporary Web resources using the core principles of ability to associate meaning with data through conceptual or domain models and semantic descriptions including annotations, and through advanced semantic techniques for search, integration, and analysis. It discusses the use of Semantic Web standards and techniques when appropriate, but also advocates the use of lighter weight, easier to use, and more scalable options when they are more suitable. The authors' extensive experience spanning research and prototypes to development of operational applications and commercial technologies and products guide the treatment of the material. Table of Contents: Role of Semantics and Metadata / Types and Models of Semantics / Annotation -- Adding Semantics to Data / Semantics for Enterprise

Data / Semantics for Services / Semantics for Sensor Data / Semantics for Social Data / Semantics for Cloud Computing / Semantics for Advanced Applications This proceedings volume contains 52 technical research papers on multidatabases, distributed DB, multimedia DB, object-oriented DB, real-time DB, temporal DB, deductive DB, and intelligent user interface. Some industrial papers are also included. Contents: Relational Query Formulation by Pseudonatural Language Text Manipulation (H Amano & Y Kambayashi)Efficient Global Transaction Management in Multidatabase Systems (S Mehrotra et al.)Determining Schema Interdependencies in Object-Oriented Multidatabase Systems (J Yang & M P Papazoglou)An Object-Centered Data Model for Engineering Design Databases (H Zhao & A Biliris)Generating Object-Oriented Views from an ER-Based Conceptual Schema (T-W Ling et al.)Scheduling and Concurrency Control for Real-Time Database Systems (S H Son & S Park)Query Processing Techniques in the Team-Oriented Database Query Language (J-T Horng et al.)A Knowledge Based System Converting ER Model into an Object-Oriented Database Schema (I-Y Song & H M Godsey)Logical Data Independence Via Views: A Misapprehension? (J M de Graaff et al.)Temporal Query Processing for Scene Retrieval in Motion Image Databases (J Takahashi)Qualitative Behavior Modeling of Information Processing Components (S H Oh et al.)A Multimedia Database for an Advanced Teleshopping Application (D Maino et al.) Readership: Computer scientists. This book is an excellent companion to Chemical Thermodynamics: Principles and Applications. Together they make a complete reference set for the practicing scientist. This volume extends the range of topics and applications to ones that are not usually covered in a beginning thermodynamics text. In a sense, the book covers a "middle ground" between the basic principles developed in a beginning thermodynamics textbook, and the very specialized applications that are a part of an ongoing research project. As such, it could prove invaluable to the practicing scientist who needs to apply thermodynamic relationships to aid in the understanding of the chemical process under consideration. The writing style in this volume remains informal, but more technical than in Principles and Applications. It starts with Chapter 11, which summarizes the thermodynamic relationships developed in this earlier volume. For those who want or need more detail, references are given to the sections in Principles and Applications where one could go to learn more about the development, limitations, and conditions where these equations apply. This is the only place where Advanced Applications ties back to the previous volume. Chapter 11 can serve as a review of the fundamental thermodynamic equations that are necessary for the more sophisticated applications described in the remainder of this book. This may be all that is necessary for the practicing scientist who has been away from the field for some time and needs some review. The remainder of this book applies thermodynamics to the description of a variety of problems. The topics covered are those that are probably of the most fundamental and broadest interest. Throughout the book, examples of "real" systems are used as much as possible. This is in contrast to many books where "generic" examples are used almost exclusively. A complete set of references to all sources of data and to supplementary reading sources is included. Problems are given at the end of each chapter. This makes the book ideally suited for use as a textbook in an advanced topics course in chemical thermodynamics. An excellent review of thermodynamic principles and mathematical relationships along with references to the relevant sections in Principles and Applications where these equations are developed Applications of thermodynamics in a wide variety of chemical processes, including phase equilibria, chemical equilibrium, properties of mixtures, and surface chemistry Case-study approach to demonstrate the application of thermodynamics to biochemical, geochemical, and industrial processes Applications at the "cutting edge" of thermodynamics Examples and problems to assist in learning Includes a complete set of references to all literature sources The three-volume set LNCS 12681-12683 constitutes the proceedings of the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2021, held in Taipei, Taiwan, in April 2021. The total of 156 papers presented in this three-volume set was carefully reviewed and selected from 490 submissions. The topic areas for the selected papers include information retrieval, search and recommendation techniques; RDF, knowledge graphs, semantic web, and knowledge management; and spatial, temporal, sequence, and streaming data management, while the dominant keywords are network, recommendation, graph, learning, and model. These topic areas and keywords shed the light on the direction where the research in DASFAA is moving towards. Due to the Corona pandemic this event was held virtually. This book collects many of the presented papers, as plenary presentations, mini-symposia invited presentations, or contributed talks, from the European Conference on Numerical Mathematics and Advanced Applications (ENUMATH) 2017. The conference was organized by the University of Bergen, Norway from September 25 to 29, 2017. Leading experts in the field presented the latest results and ideas in the designing, implementation, and analysis of numerical algorithms as well as their applications to relevant, societal problems. ENUMATH is a series of conferences held every two years to provide a forum for discussing basic aspects and new trends in numerical mathematics and scientific and industrial applications. These discussions are upheld at the highest level of international expertise. The first ENUMATH conference was held in Paris in 1995 with successive conferences being held at various locations across Europe, including Heidelberg (1997), Jyvaskyla (1999), lschia Porto (2001), Prague (2003), Santiago de Compostela (2005), Graz (2007), Uppsala (2009), Leicester (2011), Lausanne (2013), and Ankara (2015). This book constitutes the thoroughly refereed post-

conference proceedings of the 11th International Conference on Smart Card Research and Advanced Applications, CARDIS 2012, held in Graz, Austria, in November 2012. The 18 revised full papers presented together with an invited talk were carefully reviewed and selected from 48 submissions. The papers are organized in topical sections on Java card security, protocols, side-channel attacks, implementations, and implementations for resource-constrained devices. Rapid prototyping (RP) technology has been widely known and appreciated due to its flexible and customized manufacturing capabilities. The widely studied RP techniques include stereolithography apparatus (SLA), selective laser sintering (SLS), three-dimensional printing (3DP), fused deposition modeling (FDM), 3D plotting, solid ground curing (SGC), multiphase jet solidification (MJS), laminated object manufacturing (LOM). Different techniques are associated with different materials and/or processing principles and thus are devoted to specific applications. RP technology has no longer been only for prototype building rather has been extended for real industrial manufacturing solutions. Today, the RP technology has contributed to almost all engineering areas that include mechanical, materials, industrial, aerospace, electrical and most recently biomedical engineering. This book aims to present the advanced development of RP technologies in various engineering areas as the solutions to the real world engineering problems. Proceedings of the NATO Advanced Study Institute, Erice, Sicily, Italy, July 19-31, 2000 * This book surveys the different technologies and servers that are available for you to use with ASP.NET and maps the "Quality Attributes" of Application Architecture for these different servers. * The author has been using ASP.NET since the technology preview of the .NET 1.0 Framework. He has put scores of ASP.NET applications into production for large enterprise companies and universities. * This book is written with today's technology, with an eye on the future. An invaluable instrument for gaining a wide-ranging perspective on the latest developments in mathematical aspects of scientific computing, discovering new applications and the most recent developments in long-standing applications. Provides an insight into the state of the art of Numerical Mathematics and, more generally, into the field of Advanced Applications. This volume constitutes the papers of several workshops which were held in conjunction with the 26th International Conference on Database Systems for Advanced Applications, DASFAA 2021, held in Taipei, Taiwan, in April 2021. The 29 revised full papers presented in this book were carefully reviewed and selected from 84 submissions. DASFAA 2021 presents the following five workshops: 6th International Workshop on Big Data Quality Management (BDQM 2021) 5th International Workshop on Graph Data Management and Analysis (GDMA 2021) First International Workshop on Machine Learning and Deep Learning for Data Security Applications (MLDLDSA 2021) 6th International Workshop on Mobile Data Management, Mining, and Computing on Social Network (MobiSocial 2021) 2021 International Workshop on Mobile Ubiquitous Systems and Technologies (MUST 2021) Due to the Corona pandemic this event was held virtually. This book examines real-time models and advanced online applications that enhance reliability and resilience of the grid in real-time and near real-time environments. It is written by Peak Reliability engineers who worked on the creation of the West Wide System Model (WSM) and the implementation of advanced real-time operation situational awareness tools for reliability coordination function. The book looks at how a single Reliability Coordinator for the Western Interconnection did its work under normal and emergency conditions, providing a unique perspective on best practices and lessons learned from Peak’s modeling and coordination efforts to create, maintain, and improve state-of-art new technology and algorithms to improve real-time operation situational awareness and Bulk Electric System (BES) grid resilience. Coverage includes practical experience of implementing real-time Energy Management System (EMS) Network Application, real-time voltage stability analysis, online transient stability analysis, synchrophasor technology, Dispatcher Training Simulator and EMS Cybersecurity & Inter-Control Center Communications Protocol (ICCP) implementation experience in a Reliability Coordinator Control Room setting. Explains how to operate a “green” grid and prevent new blackouts against uncertain operation conditions; Written by Peak Reliability engineers who worked on the creation of the West Wide System Model (WWSM); All material verified in practical system operations, or validated by real system measures and system events. This book explains how can be created information extraction (IE) applications that are able to tap the vast amount of relevant information available in natural language sources: Internet pages, official documents such as laws and regulations, books and newspapers, and social web. Readers are introduced to the problem of IE and its current challenges and limitations, supported with examples. The book discusses the need to fill the gap between documents, data, and people, and provides a broad overview of the technology supporting IE. The authors present a generic architecture for developing systems that are able to learn how to extract relevant information from natural language documents, and illustrate how to implement working systems using state-of-the-art and freely available software tools. The book also discusses concrete applications illustrating IE uses. · Provides an overview of state-of-the-art technology in information extraction (IE), discussing achievements and limitations for the software developer and providing references for specialized literature in the area · Presents a comprehensive list of freely available, high quality software for several subtasks of IE and for several natural languages · Describes a generic architecture that can learn how to extract information for a given application domain Learn how to stand out from other CPAs by showing clients that YOU are the value of your CPA firm. You Are the Value: Define Your Worth, Differentiate

Your CPA Firm, Own Your Market provides you with practical strategies to build meaningful and lasting relationships with clients. Written specifically for CPAs, this new book guides you to discover what makes you valuable and different from other CPAs. While exploring the meaning of the word value and how it applies to you and your firm, you will examine the following seven questions about yourself to tap in to your personal value: Who Are You? What Do You Do? Why Do You Do What You Do? How Do You Do What You Do? Who Have You Done It For? What Makes You Different? Why Should I Do Business With You? (Real Value) Exploring these important questions prepares you to no longer “wing” client meetings, but knowledgably and confidently present yourself to clients in a unique way. Provides readers with a systematic review of the origins, history, and statistical foundations of Propensity Score Analysis (PSA) and illustrates how it can be used for solving evaluation and causal-inference problems. Advanced Applications of Ionic Liquids discusses the intersection of nanotechnology with ionic liquids (ILs) and materials, along with opportunities for advanced engineering applications in various research fields. Novel materials at nano scales with ILs creates an upsurge in the thermal and electrochemical constancy of the nano scale particles, making them ideal for industrial applications. The implementation of ILs at nano scale includes an interaction of constituents, which is beneficial for electron transfer reactions. These new composites can be implemented as sensors, electronics, catalysts and photonics. Including ILs in polymer composites enhance electrochemical consistency, govern particle size, upsurge conductivity, reduce toxicity, and more. This book is a comprehensive reference for researchers working with IL based technologies for environmental and energy applications. Covers all industrial aspects and advanced applications of ionic liquids (ILs) Discusses the advanced applications of ILs across multiple fields, including industrial chemistry and chemical engineering Includes a discussion of the use of ionic liquids in functional polymers, with applications for catalysis, energy conservation, sensors, and more

- Propensity Score Analysis
- Computational Electromagnetics
- Linear Integer Programming
- You Are The Value
- Advanced Technologies Systems And Applications IV Proceedings Of The International Symposium On Innovative And Interdisciplinary Applications Of Advanced Technologies IAT 2019
- Hydrophilic Interaction Liquid Chromatography HILIC And Advanced Applications
- Introduction To Quantitative Reasoning