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Step-by-step instructions and hundreds of illustrations walk readers through the toughest upgrades and repairs, with 650 pages of user-friendly information. A troubleshooting section features questions most computer tech support people encounter. This book constitutes the refereed proceedings of the International Conference on Spatial Cognition, Spatial Cognition 2006. It covers spatial reasoning, human-robot interaction, visuo-spatial reasoning and spatial dynamics, spatial concepts, human memory, mental reasoning and assistance, spatial concepts, human memory and mental reasoning, navigation, wayfinding and route instructions as well as linguistic and social issues in spatial knowledge processing. New York Times Bestseller Named "22 Essential Cookbooks for Every Kitchen" by SeriousEats.com Named "25 Favorite Cookbooks of All Time" by Christopher Kimball Named "Best Cookbooks Of 2016" by Chicago Tribune, BBC, Wired, Epicurious, Leite's Culinaría Named "100 Best Cookbooks of All Time" by Southern Living Magazine For succulent results every time, nothing is more crucial than understanding the science behind the interaction of food, fire, heat, and smoke. This is the definitive guide to the concepts, methods, equipment, and accessories of barbecue and grilling. The founder and editor of the world's most popular BBQ and grilling website, AmazingRibs.com, "Meathead" Goldwyn applies the latest research to backyard cooking and 118 thoroughly tested recipes. He explains why dry brining is better than wet brining; how marinades really work; why rubs shouldn't have salt in them; how heat and temperature differ; the importance of digital thermometers; why searing doesn't seal in juices; how salt penetrates but spices don't; when charcoal beats gas and when gas beats charcoal; how to calibrate and tune a grill or smoker; how to keep fish from sticking; cooking with logs; the strengths and weaknesses of the new pellet cookers; tricks for rotisserie cooking; why cooking whole animals is a bad idea, which grill grates are best; and why beer-can chicken is a waste of good beer and nowhere close to the best way to cook a bird. He shatters the myths that stand in the way of perfection. Busted misconceptions include: • Myth: Bring meat to room temperature before cooking. Busted! Cold meat attracts smoke better. • Myth: Soak wood before using it. Busted! Soaking produces smoke that doesn't taste as good as dry fast-burning wood. • Myth: Bone-in steaks taste better. Busted! The calcium walls of bone have no taste and they just slow cooking. • Myth: You should sear first, then cook. Busted! Actually, that overcooks the meat. Cooking at a low temperature first and searing at the end produces evenly cooked meat. Lavishly designed with hundreds of illustrations and full-color photos by the author, this book contains all the sure-fire recipes for traditional American favorites and many more outside-the-box creations. You'll get recipes for all the great regional barbecue sauces; rubs for meats and vegetables; Last Meal Ribs, Simon & Garfunkel Chicken; Schmancy Smoked Salmon; The Ultimate Turkey; Texas Brisket; Perfect Pulled Pork; Sweet & Sour Pork with Mumbo Sauce; Whole Hog; Steakhouse Steaks; Diner Burgers; Prime Rib; Brazilian Short Ribs; Rack Of Lamb Lollipops; Huli-Huli Chicken; Smoked Trout Florida Mullet -Style; Baja Fish Tacos; Lobster, and many more. Master the usage of s-parameters in signal integrity applications and gain full understanding of your simulation

and measurement environment with this rigorous and practical guide. Solve specific signal integrity problems including calculation of the s-parameters of a network, linear simulation of circuits, de-embedding, and virtual probing, all with expert guidance. Learn about the interconnectedness of s-parameters, frequency responses, filters, and waveforms. This invaluable resource for signal integrity engineers is supplemented with the open-source software SignalIntegrity, a Python package for scripting solutions to signal integrity problems. In recent years, the field of Universal Access has made significant progress in consolidating theoretical approaches, scientific methods and technologies, as well as in exploring new application domains. Increasingly, professionals in this rapidly maturing area require a comprehensive and multidisciplinary resource that addresses current principles, methods, and tools. Written by leading international authorities from academic, research, and industrial organizations and nonmarket institutions, The Universal Access Handbook covers the unfolding scientific, methodological, technological, and policy issues involved in the process of achieving universal access in the information society. In a collection of 61 chapters, the book discusses how to systematically apply universal design principles to information technologies. It explains the various dimensions of diversity in the technological platforms and contexts of use, including trends in mobile interaction and ambient intelligence environments. The implications of Universal Access on the development life cycle of interactive applications and services are unfolded, addressing user interface architectures and related components. Novel interaction methods and techniques for Universal Access are analyzed, and a variety of applications in diverse domains are discussed. The book reflects recent developments, consolidates present knowledge, and points towards new perspectives for the future. A quick glance through the contents demonstrates not only the breadth and depth of coverage but also the caliber of the contributions. An indispensable source of information for interdisciplinary and cross-thematic study, the book provides a baseline for further in-depth studies, as well as an important educational tool in an increasingly globalized research and development environment. This volume provides readers with a collection of the latest protocols used to study plant genome editing and trait engineering. The chapters in this book are organized into five parts: genome engineering systems; machinery design and validation; delivery tools; generation and analysis of engineering materials; and crop genome engineering applications. The chapters cover topics such as methods of applying the popular CRISPR-Cas9 or CRISPR-Cas12 systems for editing genomes in different crop species, the use of small synthetic plastome for potato genome engineering, and the use of CRISPR-Cas9 for algal cell genome engineering. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Cutting-edge and comprehensive, Plant Genome Engineering: Methods and Protocols is a valuable tool for researchers interested in learning more about this developing and important field. According to the US Census Bureau, the US population aged 65+ years is expected to nearly double over the next 30 years, from 43.1 million in 2012 to an estimated 83.7 million in 2050. These demographic advances, however extraordinary, have left our health systems behind as they struggle to reliably provide evidence-based practice to every older adult at every care interaction. Age-Friendly Health Systems is an initiative of The John A. Hartford Foundation and the Institute for Healthcare Improvement (IHI), in partnership with the American Hospital Association (AHA) and the Catholic Health Association of the United States (CHA), designed Age-Friendly Health Systems to meet this challenge head on. Age-Friendly Health Systems aim to: Follow an essential set of evidence-based practices; Cause no harm; and Align with What Matters to the older adult and their family caregivers. Interpreting Motion presents an integrated perspective on how language structures constrain concepts of motion and how the world shapes the way motion is linguistically expressed. Natural language allows for efficient communication of elaborate descriptions of movement without requiring a precise specification of the motion. Interpreting Motion is the first book to analyze the semantics of motion expressions in terms of the formalisms of qualitative spatial reasoning. It shows how motion descriptions in language are mapped to trajectories of moving entities based on qualitative spatio-temporal relationships. The authors provide an extensive discussion of prior research on spatial prepositions and motion verbs, devoting chapters to the compositional semantics of motion sentences, the formal representations needed for computers to reason qualitatively about time,

space, and motion, and the methodology for annotating corpora with linguistic information in order to train computer programs to reproduce the annotation. The applications they illustrate include route navigation, the mapping of travel narratives, question-answering, image and video tagging, and graphical rendering of scenes from textual descriptions. The book is written accessibly for a broad scientific audience of linguists, cognitive scientists, computer scientists, and those working in fields such as artificial intelligence and geographic information systems. This book contains a selection of revised and extended research articles written by prominent researchers participating in the international conference on Advances in Engineering Technologies and Physical Science, held in Hong Kong, October 20-22, 2021. This book demonstrates revised and extended research articles written by prominent researchers participating in the conference. Topics covered include engineering physics, communications systems, control theory, automation, engineering mathematics, scientific computing, electrical engineering, and industrial applications. The book offers the state of art of tremendous advances in engineering technologies and physical science and applications and also serves as an excellent reference work for researchers and graduate students working with/on engineering technologies and physical science and applications. PLEASE PROVIDE COURSE INFORMATION PLEASE PROVIDE Data is bigger, arrives faster, and comes in a variety of formats—and it all needs to be processed at scale for analytics or machine learning. But how can you process such varied workloads efficiently? Enter Apache Spark. Updated to include Spark 3.0, this second edition shows data engineers and data scientists why structure and unification in Spark matters. Specifically, this book explains how to perform simple and complex data analytics and employ machine learning algorithms. Through step-by-step walk-throughs, code snippets, and notebooks, you'll be able to: Learn Python, SQL, Scala, or Java high-level Structured APIs Understand Spark operations and SQL Engine Inspect, tune, and debug Spark operations with Spark configurations and Spark UI Connect to data sources: JSON, Parquet, CSV, Avro, ORC, Hive, S3, or Kafka Perform analytics on batch and streaming data using Structured Streaming Build reliable data pipelines with open source Delta Lake and Spark Develop machine learning pipelines with MLlib and productionize models using MLflow This open access book is part of the LAMBDA Project (Learning, Applying, Multiplying Big Data Analytics), funded by the European Union, GA No. 809965. Data Analytics involves applying algorithmic processes to derive insights. Nowadays it is used in many industries to allow organizations and companies to make better decisions as well as to verify or disprove existing theories or models. The term data analytics is often used interchangeably with intelligence, statistics, reasoning, data mining, knowledge discovery, and others. The goal of this book is to introduce some of the definitions, methods, tools, frameworks, and solutions for big data processing, starting from the process of information extraction and knowledge representation, via knowledge processing and analytics to visualization, sense-making, and practical applications. Each chapter in this book addresses some pertinent aspect of the data processing chain, with a specific focus on understanding Enterprise Knowledge Graphs, Semantic Big Data Architectures, and Smart Data Analytics solutions. This book is addressed to graduate students from technical disciplines, to professional audiences following continuous education short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required. The foremost authorities from chiropractics, orthopaedics and physical therapy present a practical overview of spinal rehabilitation. This clinical resource presents the most current and significant spinal rehab information, showing how to apply simple and inexpensive rehabilitation in the office. The updated Second Edition includes clinical/regional protocols and chapters on diagnostic triage, acute care, functional assessment, recovery care, outcomes, and biopsychosocial aspects. A bonus DVD offers demonstrations of key therapies and procedures. Leveraging the knowledge gained from Knowledge Management and from the growing fields of Analytics and Artificial Intelligence (AI), this Research Agenda highlights the research gaps, issues, applications, challenges and opportunities related to Knowledge Management (KM). Exploring synergies between KM and emerging technologies, leading international scholars and practitioners examine KM from a multidisciplinary perspective, demonstrating the ways in which knowledge sharing worldwide can be enhanced in order to better society and improve organisational performance. What is space? Is there space when there are objects to occupy it or is there space only when there are no objects to occupy it? Can there be space without objects? These are old philosophical questions that concern the ontology of space in the

philosophical sense of 'ontology' – what is the nature of space? Cognitive science in general and artificial intelligence in particular are less concerned with the nature of things than with their mental conceptualizations. In spatial cognition research we address questions like What do we know about space? How is space represented? What are the representational entities? What are the representational structures? Answers to these questions are described in what is called ontologies in artificial intelligence. Different tasks require different knowledge, and different representations of knowledge facilitate different ways of solving problems. In this book, Jan Oliver Wallgrün develops and investigates representational structures to support tasks of autonomous mobile robots, from the acquisition of knowledge to the use of this knowledge for navigation. The research presented is concerned with the robot mapping problem, the problem of building a spatial representation of an environment that is perceived by sensors that only provide incomplete and uncertain information; this information usually needs to be related to other imprecise or uncertain information. The routes a robot can take can be abstractly described in terms of graphs where alternative routes are represented by alternative branches in these route graphs. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. Why rush to the repair shop to install a next-station video card or deal with a Windows 2000 meltdown? With a good set of screwdrivers, an antistatic strap, and Fix Your Own PC, you'll be ready to tackle any job -- big or small. Packed with detailed charts and photos, this indispensable guide will help you keep your PC up and running and up to date. Space and time are inextricably linked. Reasoning about space often involves reasoning about change in spatial configurations. Qualitative spatial information theory encompasses spatial as well as temporal representation and reasoning. Qualitative Spatio-Temporal Representation and Reasoning: Trends and Future Directions is a contribution to the emerging discipline of qualitative spatial information theory within artificial intelligence. This collection of research covers both theory and application-centric research and provides a comprehensive perspective on the emerging area of qualitative spatio-temporal representation and reasoning. This revolutionary new field is increasingly becoming a core issue within mobile computing, GIS/spatial information systems, databases, computer vision as well as knowledge discovery and data mining. This book constitutes the proceedings of the 11th International Conference on Spatial Information Theory, COSIT 2013, held in Scarborough, UK, in September 2013. The 28 papers presented in this book were carefully reviewed and selected from 62 full paper submissions. The following topics are addressed: spatial change, wayfinding and assistance, representing spatial data, handling language data, spatial language and computation, spatial ontology, spatial reasoning and representation. Written by an author team with experience in law enforcement and in the classroom, Community Policing Today explores the strategies police and communities can use to find long-term solutions to the public safety issues facing today's communities, including gangs, high crime, and disproportionate minority contact. Framing community policing not as a program, but as a transformation from traditional policing that involves sweeping changes in the way police view their role and relationships with the community, the authors demonstrate how law enforcement officers can partner with the community to help facilitate problem-solving of public safety issues. With an emphasis on cutting-edge trends and impacts on community policing, this book offers students a better understanding of the complexity and promise of community policing today. Included with this title: The password-protected Instructor Resource Site (formally known as SAGE Edge) offers access to all text-specific resources, including a test bank and editable, chapter-specific PowerPoint® slides. PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology. This book documents and expands on the diverse social and political dimensions of mathematics education issues, concerns, perspectives, contexts, and approaches presented in Topic Study Group 34 of the 13th International Congress on Mathematical Education (ICME-13). The book also argues for and promotes the mainstreaming of the sociopolitical dimensions of mathematics education through an ongoing critique and inquiry into content, policies, practices and theories. Accordingly, the main theme throughout the book is captured and illuminated by bringing voices from the margin to the mainstream. In this respect it is both aspirational and a reality, as evidenced by the increasing references to the

sociopolitical dimensions in other areas of mathematics education—for example, in several of the plenary presentations at the ICME-13. The authors have reflected on their ideas with a view to orienting and enhancing research in the sociopolitical dimensions of mathematics education that is grounded in current education systems within their specific sociocultural contexts. Apache Spark is a popular open-source big-data processing framework that's built around speed, ease of use, and unified distributed computing architecture. Not only it supports developing applications in different languages like Java, Scala, Python, and R, it's also hundred times faster in memory and ten times faster even when running on disk compared to traditional data processing frameworks. Whether you are currently working on a big data project or interested in learning more about topics like machine learning, streaming data processing, and graph data analytics, this book is for you. You can learn about Apache Spark and develop Spark programs for various use cases in big data analytics using the code examples provided. This book covers all the libraries in Spark ecosystem: Spark Core, Spark SQL, Spark Streaming, Spark ML, and Spark GraphX. A part of the Practical series, this text teaches the basics of using a PC with a hands-on interactive CD and book companion. Across a variety of disciplines, data and statistics form the backbone of knowledge. To ensure the reliability and validity of data, appropriate measures must be taken in conducting studies and reporting findings. Research Methods: Concepts, Methodologies, Tools, and Applications compiles chapters on key considerations in the management, development, and distribution of data. With its focus on both fundamental concepts and advanced topics, this multi-volume reference work will be a valuable addition to researchers, scholars, and students of science, mathematics, and engineering. Ontology began life in ancient times as a fundamental part of philosophical enquiry concerned with the analysis and categorisation of what exists. In recent years, the subject has taken a practical turn with the advent of complex computerised information systems which are reliant on robust and coherent representations of their subject matter. The systematisation and elaboration of such representations and their associated reasoning techniques constitute the modern discipline of formal ontology, which is now being applied to such diverse domains as artificial intelligence, computational linguistics, bioinformatics, GIS, knowledge engineering, information retrieval and the Semantic Web. Researchers in all these areas are becoming increasingly aware of the need for serious engagement with ontology, understood as a general theory of the types of entities and relations making up their respective domains of enquiry, to provide a solid foundation for their work. The conference series Formal Ontology in Information Systems (FOIS) provides a meeting point for researchers from these and other disciplines with an interest in formal ontology, where both theoretical issues and concrete applications can be explored in a spirit of genuine interdisciplinarity. This volume contains the proceedings of the sixth FOIS conference, held in Toronto, Canada, during 11-14 May 2010, including invited talks by Francis Jeffrey Pelletier, John Bateman, and Alan Rector and the 28 peer-reviewed submissions selected for presentation at the conference, ranging from foundational issues to more application-oriented topics. IOS Press is an international science, technical and medical publisher of high-quality books for academics, scientists, and professionals in all fields. Some of the areas we publish in: - Biomedicine -Oncology -Artificial intelligence -Databases and information systems -Maritime engineering - Nanotechnology -Geoengineering -All aspects of physics -E-governance -E-commerce -The knowledge economy -Urban studies -Arms control -Understanding and responding to terrorism -Medical informatics - Computer Sciences BrunoBuchberger This book is a synopsis of basic and applied research done at the various research institutions of the Softwarepark Hagenberg in Austria. Starting with 15 coworkers in my Research Institute for Symbolic Computation (RISC), I initiated the Softwarepark Hagenberg in 1987 on request of the Upper Austrian Government with the objective of creating a scientific, technological, and economic impulse for the region and the international community. In the meantime, in a joint effort, the Softwarepark Hagenberg has grown to the current (2009) size of over 1000 R&D employees and 1300 students in six research institutions, 40 companies and 20 academic study programs on the bachelor, master's and PhD level. The goal of the Softwarepark Hagenberg is innovation of economy in one of the most important current technologies: software. It is the message of this book that this can only be achieved and guaranteed long term by "watering the root", namely emphasis on research, both basic and applied. In this book, we summarize what has been achieved in terms of research in the various research institutions in the Softwarepark Hagenberg and what research vision we have for the imminent future. When I founded

the Softwarepark Hagenberg, in addition to the “watering the root” principle, I had the vision that such a technology park can only prosper if we realize the “magic triangle”, i.e. the close interaction of research, academic education, and business applications at one site, see Figure 1. Starting with an updated description of Allen's calculus, the book proceeds with a description of the main qualitative calculi which have been developed over the last two decades. It describes the connection of complexity issues to geometric properties. Models of the formalisms are described using the algebraic notion of weak representations of the associated algebras. The book also includes a presentation of fuzzy extensions of qualitative calculi, and a description of the study of complexity in terms of clones of operations. Maximum PC

is the magazine that every computer fanatic, PC gamer or content creator must read. Each and every issue is packed with punishing product reviews, insightful and innovative how-to stories and the illuminating technical articles that enthusiasts crave. Clemens Holzmann investigates the role of spatial contexts for autonomous embedded systems. The author presents concepts for recognizing, representing, and reasoning about qualitative spatial relations and their changes over time, as well as an appropriate architecture which has prototypically been implemented in a flexible software framework. His results show that the proposed concepts are suitable for developing spatially aware applications and that qualitatively abstracted relations can constitute an adequate basis for this purpose.