

Panasonic Eluga I2 Activ Smartphone With Android Nougat

Introducing the first real, tangible, ignitable collection of the hit online comic Cyanide & Happiness, featuring a selection of your favorite comics and thirty brand-new strips. From the minds of Kris, Rob, Matt, and Dave comes a barrage of irreverent entertainment sure to keep you amused until the day you die. Just see what their mothers have to say! "Dave is a nice, young man with a bright future ahead of him. I always knew he was a gifted boy who would go on to do great things. I hope he settles down with a nice, young woman and ****s the **** out of her." —Dave's mom "I don't know how to get computer pictures, so I'm glad Kris finally has a book out. I haven't read it yet, but I hope he gives me a quote on the back." —Kris's mom "I hope Robert's book does well so he can finally afford to move out. He plays his hip-hop music too loud." —Rob's mom Matt's mom was unavailable for a quote due to being dead.

This book constitutes the refereed proceedings of the 8th International Workshop on Intelligent Virtual Agents, IVA 2008, held in Tokyo, Japan, in September 2008. The 18 revised full papers and 28 revised short papers presented together 42 poster papers were carefully reviewed and selected from 99 submissions. The papers are organized in topical sections on motion and empathy; narrative and augmented reality; conversation and negotiation; nonverbal behavior; models of culture and personality; markup and representation languages; architectures for robotic agents; cognitive architectures; agents for healthcare and training; and agents in games, museums and virtual worlds.

This book provides, for the first time, a broad and deep treatment of the fields of both ultra low power electronics and bioelectronics. It discusses fundamental principles and circuits for ultra low power electronic design and their applications in biomedical systems. It also discusses how ultra energy efficient cellular and neural systems in biology can inspire revolutionary low power architectures in mixed-signal and RF electronics. The book presents a unique, unifying view of ultra low power analog and digital electronics and emphasizes the use of the ultra energy efficient subthreshold regime of transistor operation in both. Chapters on batteries, energy harvesting, and the future of energy provide an understanding of fundamental relationships between energy use and energy generation at small scales and at large scales. A wealth of insights and examples from brain implants, cochlear implants, bio-molecular sensing, cardiac devices, and bio-inspired systems make the book useful and engaging for students and practicing engineers.

This is the third revised edition of the established and trusted RFID Handbook; the most comprehensive introduction to radio frequency identification (RFID) available. This essential new edition contains information on electronic product code (EPC) and the EPC global network, and explains near-field communication (NFC) in depth. It includes revisions on chapters devoted to the physical principles of RFID systems and microprocessors, and supplies up-to-date details on

relevant standards and regulations. Taking into account critical modern concerns, this handbook provides the latest information on: the use of RFID in ticketing and electronic passports; the security of RFID systems, explaining attacks on RFID systems and other security matters, such as transponder emulation and cloning, defence using cryptographic methods, and electronic article surveillance; frequency ranges and radio licensing regulations. The text explores schematic circuits of simple transponders and readers, and includes new material on active and passive transponders, ISO/IEC 18000 family, ISO/IEC 15691 and 15692. It also describes the technical limits of RFID systems. A unique resource offering a complete overview of the large and varied world of RFID, Klaus Finkenzeller's volume is useful for end-users of the technology as well as practitioners in auto ID and IT designers of RFID products. Computer and electronics engineers in security system development, microchip designers, and materials handling specialists benefit from this book, as do automation, industrial and transport engineers. Clear and thorough explanations also make this an excellent introduction to the topic for graduate level students in electronics and industrial engineering design. Klaus Finkenzeller was awarded the Fraunhofer-Smart Card Prize 2008 for the second edition of this publication, which was celebrated for being an outstanding contribution to the smart card field.

A no-holds-barred examination of 'ethical' consumerism.

This book constitutes the refereed post-conference proceedings of the 9th International Conference on Mobile Networks and Management, MONAMI 2017, held in Melbourne, Australia, in December 2017. The 30 revised full papers were carefully reviewed and selected from 43 submissions. The papers handle topics in the area of mobile computing, wireless networking and management.

This new edition provides a comprehensive, colorful, up-to-date, and accessible presentation of AI without sacrificing theoretical foundations. It includes numerous examples, applications, full color images, and human interest boxes to enhance student interest. New chapters on robotics and machine learning are now included. Advanced topics cover neural nets, genetic algorithms, natural language processing, planning, and complex board games. A companion DVD is provided with resources, applications, and figures from the book. Numerous instructors' resources are available upon adoption. eBook Customers: Companion files are available for downloading with order number/proof of purchase by writing to the publisher at info@merclearning.com. FEATURES: • Includes new chapters on robotics and machine learning and new sections on speech understanding and metaphor in NLP • Provides a comprehensive, colorful, up to date, and accessible presentation of AI without sacrificing theoretical foundations • Uses numerous examples, applications, full color images, and human interest boxes to enhance student interest • Introduces important AI concepts e.g., robotics, use in video games, neural nets, machine learning, and more thorough practical applications • Features

over 300 figures and color images with worked problems detailing AI methods and solutions to selected exercises • Includes DVD with resources, simulations, and figures from the book • Provides numerous instructors' resources, including: solutions to exercises, Microsoft PP slides, etc.

Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering. KEY FEATURES * Chapters cover both basic principles of chemistry as also its applied aspects. * Written in easy self-explanatory language and in depth at the same time. * Review questions provided at the end of each chapter. * A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.

Not a design book, but an source of information on the features and specifications most often reported in data sheets on charge-coupled devices, which are used in high-definition television for program production, consumer camcorders, electronic still cameras, optical character readers including bar-code scanners and fax machines, and other applications. When the 1996 edition sold out, it was decided to update and correct rather than reprint. A major change is that the term CCD array has been changed in most of the text to solid state array to allow for flexibility in sensor type. Annotation copyrighted by Book News, Inc., Portland, OR.

Crompton's Battery Reference Book has become the standard reference source for a wide range of professionals and students involved in designing, manufacturing, and specifying products and systems that use batteries. This book is unique in providing extensive data on specific battery types, manufacturers and suppliers, as well as covering the theory - an aspect of the book which makes an updated edition important for every professional's library. The coverage of different types of battery is fully comprehensive, ranging from minute button cells to large installations weighing several hundred tonnes. Must-have information and data on all classes of battery in an accessible form Essential reference for design engineers in automotive and aerospace applications, telecommunications equipment, household appliances, etc. Informs you of developments over the past five years

This book gives clear and effective instructions, stuffed with practical examples, to build your own fun, stunning and highly-interactive openFrameworks applications. Each chapter is focused differently and has a new theme to it, This book targets visual artists, designers, programmers and those interested in creative coding by getting started with openFrameworks. This book will help you understand the capabilities of openFrameworks to help you create visually stunning and fully interactive applications. You should have a basic knowledge of object oriented programming, such as C++, Java, Python, ActionScript 3, etc.

This book is a printed edition of the Special Issue "Micro/Nano-Chip Electrokinetics" that was published in Micromachines

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.

The Proud Tower, the Pulitzer Prize–winning *The Guns of August*, and *The Zimmermann Telegram* comprise Barbara W. Tuchman’s classic histories of the First World War era. In January 1917, the war in Europe was, at best, a tragic standoff. Britain knew that all was lost unless the United States joined the war, but President Wilson was unshakable in his neutrality. At just this moment, a crack team of British decoders in a quiet office known as Room 40 intercepted a document that would change history. The Zimmermann telegram was a top-secret message to the president of Mexico, inviting him to join Germany and Japan in an invasion of the United States. How Britain managed to inform the American government without revealing that the German codes had been broken makes for an incredible story of espionage and intrigue as only Barbara W. Tuchman could tell it. Praise for *The Zimmermann Telegram* “A true, lucid thriller . . . a tremendous tale of hushed and unhushed uproars in the linked fields of war and diplomacy . . . Tuchman makes the most of it with a creative writer’s sense of drama and a scholar’s obeisance to the evidence.”—*The New York Times* “The tale has most of the ingredients of an Eric Ambler spy thriller.”—*Saturday Review*

Software defined radio (SDR) is a hot topic in the telecommunications field, with regard to wireless technology. It is one of the most important topics of research in the area of mobile and personal communications. SDR is viewed as the enabler of global roaming and a platform for the introduction of new technologies and services into existing live networks. It therefore gives networks a greater flexibility into mobile communications. It bridges the inter-disciplinary gap in the field as SDR covers two areas of development, namely software development and digital signal processing and the internet. It extends well beyond the simple re-configuration of air interface parameters to cover the whole system from the network to service creation and application development. Reconfigurability entails the pervasive use of software reconfiguration, empowering upgrades or patching of any element of the network and of the services and applications running on it. It cuts across the types of bearer radio systems (Paging to cellular, wireless local area network to microwave, terrestrial to satellite, personal communications to broadcasting) enable the integration of many of today's disparate systems in the same hardware platform. Also it cuts across generation (second to third to fourth). This volume complements the already published volumes 1 and 2 of the Wiley Series in Software Radio. The book discusses the requirements for reconfigurability and then introduces network architectures and functions for reconfigurable terminals. Finally it deals with reconfiguration in the network. The book also provides a comprehensive view on reconfigurability in three very active research projects as CAST, MOBIVAS and TRUST/SCOUT. Key features include: Presents new research in wireless

communications Summarises the results of an extensive research program on software defined radios in Europe Provides a comprehensive view on reconfigurability in three very active research projects as CAST (Configurable radio with Advanced Software Technology), MOBIVAS (Downloadable MOBILE Value Added Services through Software Radio and Switching Integrated Platforms), TRUST (Transparently Re-configurable Ubiquitous Terminal) and SCOUT (Smart User-Centric Communication Environment).

FED LOG.8 TrackThe First Mobile AppCreateSpace

The book deals with the fundamentals, theoretical bases, and design methodologies of conventional internal combustion engine (ICE) vehicles, electric vehicles (EVs), hybrid electric vehicles (HEVs), and fuel cell vehicles (FCVs). The design methodology is described in mathematical terms, step-by-step, and the topics are approached from the overall drive train system, not just individual components. Furthermore, in explaining the design methodology of each drive train, design examples are presented with simulation results.

Written specifically to help lawyers and non-lawyers brush up on franchise law, this respected publication - now in its fourth edition - is charged with useful definitions, practical tips, and expert advice from experienced franchise law practitioners. This practical guide examines franchise law from a wide-range of experiences and viewpoints. Each chapter is written by two experienced practitioners to provide a well-rounded guide to the fundamentals of franchise law and key issues in the practice, including trademark law; structuring the franchise relationship; disclosure issues; registration; franchise relationship laws; antitrust law; counseling franchisees; and more.

This book constitutes the proceedings of the 16th International Conference on Cooperative Design, Visualization, and Engineering, CDVE 2019, held in Alcudia, Mallorca, Spain, in October 2019. The 26 revised full papers and 6 short papers presented were carefully reviewed and selected from 68 submissions. The achievement, progress and future challenges are reported in areas such as aerospace engineering, remote medical monitoring, automatic machine monitoring, cooperative personal data analytics, mobile banking, remote cooperative art performance management etc. In traditional areas such as architecture, civil engineering and construction, cooperative learning, enterprise management etc. authors also show new findings and new methodologies in their papers. This gives the readers a fresh look of how the CDVE technology is shaping our industry and daily life.

Protecting Privacy in Video Surveillance offers the state of the art from leading researchers and experts in the field. This broad ranging volume discusses the topic from various technical points of view and also examines surveillance from a societal perspective. A comprehensive introduction carefully guides the reader through the collection of cutting-edge research and current thinking. The technical elements of the field feature topics from MERL blind vision, stealth vision and privacy by de-identifying face images, to using mobile communications to assert privacy from video surveillance, and using wearable computing devices for data collection in surveillance environments. Surveillance and society is approached with discussions of security versus privacy, the

rise of surveillance, and focusing on social control. This rich array of the current research in the field will be an invaluable reference for researchers, as well as graduate students.

Intelligence in Networks is a concept, the meaning of which is highly related to the time-period when it is used. In the 1960s, 1970s and 1980s, it was mainly related to the teleservice repertoire `an sich'. In the 1990s, it is more related to efficient flexibility in the introduction of new teleservices and teleservice repertoire. This state-of-the-art text sets out to identify and study issues related to solutions for increasing intelligence in networks. As examples, intelligence networks (IN), telecommunication information networking architecture (TINA) and mobile agents and active networks are different solutions for improving the grade of network intelligence. The areas under discussion include research and development within various closely related fields such as:

Teleservices, service architecture and service creation; Middleware and specification languages; Mobile agents, active networks, plug-and-play issues; and Quality of service and performance.£/LIST£ Intelligence in Networks contains the proceedings of SMARTNET'99, the fifth in a series of conferences on intelligence in networks sponsored by the International Federation for Information Processing (IFIP), at the Asian Institute of Technology, Pathumthani, Thailand in November 1999.

This book explains the science of photovoltaics (PV) in a way that most people can understand using the curriculum which reflects the core modules of the NABCEP Associate Exam. Whether or not you are taking the NABCEP Associate Exam, learning the material covered in this book is the best investment you can make insuring your place and moving up in the solar industry.

Providing complete coverage of the NABCEP syllabus in easily accessible chapters, this book addresses all of the core objectives required to pass the exam, including the ten main skill sets: PV Markets and Applications Safety Basics Electricity Basics Solar Energy Fundamentals PV Module Fundamentals System Components PV System Sizing Principles PV System Electrical Design PV System Mechanical Design Performance Analysis, Maintenance and Troubleshooting You will learn the importance of surveying a site and how to carry out a survey, how to use the tools that determine shading and annual production, and the necessity of safety on site. This guide also includes technical math and equations that are suitable and understandable to those without engineering degrees, but are necessary in understanding the principles of solar PV. This new edition of Sean White's highly successful study guide has been updated throughout and reflects recent changes in the industry.

In a single volume, The Mobile Communications Handbook 2nd. Edition covers the entire field - from principles of analog and digital communications to cordless telephones, wireless local area networks (LANs), and international technology standards. The amazing scope of the handbook ensures that it will be the primary reference for every aspect of mobile communications.

Small Signal Audio Design is a highly practical handbook providing an extensive repertoire of circuits that can be assembled to make almost any type of audio system. The publication of Electronics for Vinyl has freed up space for new material, (though this book still contains a lot on moving-magnet and moving-coil electronics) and this fully revised third edition offers wholly new chapters on tape machines, guitar electronics, and variable-gain amplifiers, plus much more. A major theme is the use of inexpensive and readily available parts to obtain state-of-the-art performance for noise, distortion, crosstalk, frequency response

accuracy and other parameters. Virtually every page reveals nuggets of specialized knowledge not found anywhere else. For example, you can improve the offness of a fader simply by adding a resistor in the right place- if you know the right place. Essential points of theory that bear on practical audio performance are lucidly and thoroughly explained, with the mathematics kept to an absolute minimum. Self's background in design for manufacture ensures he keeps a wary eye on the cost of things. This book features the engaging prose style familiar to readers of his other books. You will learn why mercury-filled cables are not a good idea, the pitfalls of plating gold on copper, and what quotes from Star Trek have to do with PCB design. Learn how to: make amplifiers with apparently impossibly low noise design discrete circuitry that can handle enormous signals with vanishingly low distortion use humble low-gain transistors to make an amplifier with an input impedance of more than 50 megohms transform the performance of low-cost-opamps build active filters with very low noise and distortion make incredibly accurate volume controls make a huge variety of audio equalisers make magnetic cartridge preamplifiers that have noise so low it is limited by basic physics, by using load synthesis sum, switch, clip, compress, and route audio signals be confident that phase perception is not an issue This expanded and updated third edition contains extensive new material on optimising RIAA equalisation, electronics for ribbon microphones, summation of noise sources, defining system frequency response, loudness controls, and much more. Including all the crucial theory, but with minimal mathematics, Small Signal Audio Design is the must-have companion for anyone studying, researching, or working in audio engineering and audio electronics.

Batteries that can store electricity from solar and wind generation farms are a key component of a sustainable energy strategy. Featuring 15 peer-reviewed entries from the Encyclopedia of Sustainability Science and Technology, this book presents a wide range of battery types and components, from nanocarbons for supercapacitors to lead acid battery systems and technology. Worldwide experts provides a snapshot-in-time of the state-of-the art in battery-related R&D, with a particular focus on rechargeable batteries. Such batteries can store electrical energy generated by renewable energy sources such as solar, wind, and hydropower installations with high efficiency and release it on demand. They are efficient, non-polluting, self-contained devices, and their components can be recovered and used to recreate battery systems. Coverage also highlights the significant efforts currently underway to adapt battery technology to power cars, trucks and buses in order to eliminate pollution from petroleum combustion. Written for an audience of undergraduate and graduate students, researchers, and industry experts, Batteries for Sustainability is an invaluable one-stop reference to this essential area of energy technology.

An argument between two strong-willed inventors - Bill Lear and Earl "Madman" Muntz - sparked the world's first mobile app. Here, for the first time, is the story behind the development of the 8 Track tape player. In late 1965, consumers had two ready options for listening to recorded music - a radio or a record player. But with baby boomers just coming of age in the 1960s, along with new advances in magnetic tape and an explosion of music, Lear and his team ignored the

naysayers and developed the 8 Track tape player and tape cartridges. Through a friendship with Henry Ford II, chairman and CEO of Ford Motor Co., Lear lined up his first customer. Lear also convinced David Sarnoff, chairman of RCA Victor, to dedicate 175 albums to the new medium. But Ford's powerful product planners were not convinced Lear could develop a combined AM radio and 8 Track tape player from scratch (hence the first mobile app). Enter Motorola, which was desperate to keep its share of Ford work by bringing forward a novel music playback system. As Ford, Motorola, RCA, and Lear worked through their separate interests, they launched the 8 Track against stiff resistance. Many of the major record labels were reluctant to support the new medium given the associated costs of design, copyrights, materials, production, distribution, and marketing. But for consumers, artists, musicians, and engineers, the 8 Track represented the Holy Grail of a mobile music experience, and millions of dollars in sales. Here, for the first time, is the inside story. This proceedings volume includes the full research papers presented at the First International Conference on Mobile Computing, Applications, and Services (MobiCASE) held in San Diego, California, during October 26-29, 2009. It was sponsored by ICST and held in conjunction with the First Workshop on Innovative Mobile User Interactivity (WIMUI). MobiCASE highlights state-of-the-art academic and industry research work in - main topics above the OSI transport layer with an emphasis on complete end-to-end systems and their components. Its vision is largely influenced by what we see in the consumer space today: high-end mobile phones, high-bandwidth wireless networks, novel consumer and enterprise mobile applications, scalable software infrastructures, and of course an increasingly larger user base that is moving towards an almost a- mobile lifestyle. This year's program spanned a wide range of research that explored new features, algorithms, and infrastructure related to mobile platforms. We received submissions from many countries around the world with a high number from Europe and Asia in addition to the many from North America. Each paper received at least three independent reviews from our Technical Program Committee members during the Spring of 2009, with final results coming out in July. As a result of the review process, we selected 15 high-quality papers and complemented them with six invited submissions from leading researchers, reaching the final count of 21 papers in the program.

Electric Vehicle Battery Systems provides operational theory and design guidance for engineers and technicians working to design and develop efficient electric vehicle (EV) power sources. As Zero Emission Vehicles become a requirement in more areas of the world, the technology required to design and maintain their complex battery systems is needed not only by the vehicle designers, but by those who will provide recharging and maintenance services, as well as utility infrastructure providers. Includes fuel cell and hybrid vehicle applications. Written with cost and efficiency foremost in mind, Electric Vehicle Battery Systems offers essential details on failure mode analysis of VRLA, NiMH battery systems,

the fast-charging of electric vehicle battery systems based on Pb-acid, NiMH, Li-ion technologies, and much more. Key coverage includes issues that can affect electric vehicle performance, such as total battery capacity, battery charging and discharging, and battery temperature constraints. The author also explores electric vehicle performance, battery testing (15 core performance tests provided), lithium-ion batteries, fuel cells and hybrid vehicles. In order to make a practical electric vehicle, a thorough understanding of the operation of a set of batteries in a pack is necessary. Expertly written and researched, Electric Vehicle Battery Systems will prove invaluable to automotive engineers, electronics and integrated circuit design engineers, and anyone whose interests involve electric vehicles and battery systems. * Addresses cost and efficiency as key elements in the design process * Provides comprehensive coverage of the theory, operation, and configuration of complex battery systems, including Pb-acid, NiMH, and Li-ion technologies * Provides comprehensive coverage of the theory, operation, and configuration of complex battery systems, including Pb-acid, NiMH, and Li-ion technologies

This book provides developers, engineers, researchers and students with detailed knowledge about the High Efficiency Video Coding (HEVC) standard. HEVC is the successor to the widely successful H.264/AVC video compression standard, and it provides around twice as much compression as H.264/AVC for the same level of quality. The applications for HEVC will not only cover the space of the well-known current uses and capabilities of digital video – they will also include the deployment of new services and the delivery of enhanced video quality, such as ultra-high-definition television (UHDTV) and video with higher dynamic range, wider range of representable color, and greater representation precision than what is typically found today. HEVC is the next major generation of video coding design – a flexible, reliable and robust solution that will support the next decade of video applications and ease the burden of video on world-wide network traffic. This book provides a detailed explanation of the various parts of the standard, insight into how it was developed, and in-depth discussion of algorithms and architectures for its implementation.

Comprehensive coverage of an important and current hot topic.; Details both theoretical as well as practical aspects.; Presents new data hiding algorithms for images and videos.; Reveals a number of attacks and countermeasures for data hiding systems, with a focus on digital music.

SMIL 2.0 - Interactive multimedia for Web and Mobile Devices gently introduces you to the Web multimedia standard SMIL 2.0. Written by world-renowned SMIL experts who helped to develop the language and software for it, this book covers all aspects of the standard in a knowledgeable yet accessible manner: the overall concepts, the technical details and the many facets of SMIL's current and expected use. It is written to serve as an introduction, a full manual and a detailed technical reference.

Robot Manipulator Control offers a complete survey of control systems for serial-link robot arms and acknowledges how robotic device performance hinges upon a well-developed control system. Containing over 750 essential equations, this thoroughly up-to-date Second Edition, the book explicates theoretical and mathematical requisites for controls design and summarizes current techniques in computer simulation and implementation of controllers. It also addresses procedures and issues in computed-torque, robust, adaptive, neural network, and force control. New chapters relay practical information on commercial robot manipulators and devices and cutting-edge methods in neural network control.

Since CAFE standards were established 25 years ago, there have been significant changes in motor vehicle technology, globalization of the industry, the mix and characteristics of vehicle sales, production capacity, and other factors. This volume evaluates the implications of these changes as well as changes anticipated in the next few years, on the need for CAFE, as well as the stringency and/or structure of the CAFE program in future years.

An up-to-date, practical guide on upgrading from silicon to GaN, and how to use GaN transistors in power conversion systems design This updated, third edition of a popular book on GaN transistors for efficient power conversion has been substantially expanded to keep students and practicing power conversion engineers ahead of the learning curve in GaN technology advancements. Acknowledging that GaN transistors are not one-to-one replacements for the current MOSFET technology, this book serves as a practical guide for understanding basic GaN transistor construction, characteristics, and applications. Included are discussions on the fundamental physics of these power semiconductors, layout, and other circuit design considerations, as well as specific application examples demonstrating design techniques when employing GaN devices. GaN Transistors for Efficient Power Conversion, 3rd Edition brings key updates to the chapters of Driving GaN Transistors; Modeling, Simulation, and Measurement of GaN Transistors; DC-DC Power Conversion; Envelope Tracking; and Highly Resonant Wireless Energy Transfer. It also offers new chapters on Thermal Management, Multilevel Converters, and Lidar, and revises many others throughout. Written by leaders in the power semiconductor field and industry pioneers in GaN power transistor technology and applications Updated with 35% new material, including three new chapters on Thermal Management, Multilevel Converters, Wireless Power, and Lidar Features practical guidance on formulating specific circuit designs when constructing power conversion systems using GaN transistors A valuable resource for professional engineers, systems designers, and electrical engineering students who need to fully understand the state-of-the-art GaN Transistors for Efficient Power Conversion, 3rd Edition is an essential learning tool and reference guide that enables power conversion engineers to design energy-efficient, smaller, and more cost-effective products using GaN transistors.

This book constitutes the refereed proceedings of the 6th International Symposium on Spatial Databases, SSD'99, held

in Hong Kong, China in July 1999. The 17 revised full papers presented were carefully selected from 55 submissions. Also included are short papers corresponding to three invited talks and industrial applications presentations. The papers are organized in chapters on multi-resolution and scale, indexing, moving objects and spatio-temporal data, spatial mining and classification, spatial join, uncertainty and geological hypermaps, and industrial and visionary application track.

For more than 40 years, Computerworld has been the leading source of technology news and information for IT influencers worldwide. Computerworld's award-winning Web site (Computerworld.com), twice-monthly publication, focused conference series and custom research form the hub of the world's largest global IT media network.

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