

TScan

Andrew Tarko, Kartik Arivur, Mario Romero, Vamsi Bandaru, Cristhian Jimenez, Jose Thomaz

T-Scan Andrew Tarko, Kartik Arivur, Mario Romero, Vamsi Bandaru, Cristhian Jimenez, Jose Thomaz, 2017-03-31 The ability to accurately measure and cost-effectively collect traffic data at road intersections is needed to improve their safety and operations. This study investigates the feasibility of using laser ranging technology (LiDAR) for this purpose. The proposed technology does not experience some of the problems of the current video-based technology but less expensive low-end sensors have limited density of points where measurements are collected that may bring new challenges. A novel LiDAR-based portable traffic scanner (TScan) is introduced in this report to detect and track various types of road users (e.g., trucks, cars, pedestrians, and bicycles). The scope of this study included the development of a signal processing algorithm and a user interface, their implementation on a TScan research unit, and evaluation of the unit performance to confirm its practicality for safety and traffic engineering applications. The developed TScan method identifies and extracts the background with a method applied in both the spherical and orthogonal coordinates. The moving objects are detected by clustering them; then the data points are tracked, first as clusters and then as rectangles fit to these clusters. After tracking, the individual moving objects are classified in categories, such as heavy and non-heavy vehicles, bicycles, and pedestrians. The resulting trajectories of the moving objects are stored for future processing with engineering

applications. The developed signal-processing algorithm is supplemented with a convenient user interface for setting and running and inspecting the results during and after the data collection. It was concluded that the TScan performance is sufficient for measuring traffic volumes, speeds, classifications, and traffic conflicts. The traffic interactions extracted by SSAM required automatic post-processing to eliminate vehicle interactions at too low speed and between pedestrians - events that could not be recognized by SSAM. It should be stressed that this post processing does not require human involvement. Nighttime conditions, light rain, and fog did not reduce the quality of the results. Several improvements of this new method are recommended and discussed in this report. The recommendations include implementing two TScan units at large intersections and adding the ability to collect traffic signal indications during data collection.

Assistive Technology Ger M. Craddock, 2003 This publication covers different themes in the field of assistive technology. The theme New technologies will explore the significant advances in technology research & development and how these can be harnessed to benefit people with disabilities. This will include evolving technologies, affording interesting insights into the future. The theme User Centred Approach will look at fundamental ways in which the EU advocate a philosophy of citizenship and governance and how this philosophy can be advanced to ensure that people with disabilities become central to the assistive technology process Another issue that is explored in this

publication is Interdisciplinary Approaches which can be developed within assistive technology and the provision of services to people with disabilities. Finally, it concentrates on ways in which practitioners and users, working together within assistive technology, can achieve best practice in the development and implementation of Guidelines and Standards across a broad spectrum.

PC-Aided Numerical Heat Transfer and Convective Flow Akira

Nakayama, 1995-04-07 PC-Aided Numerical Heat Transfer and Convective Flow is intended as a graduate course textbook for Mechanical and Chemical Engineering students as well as a reference book for practitioners interested in analytical and numerical treatments in the subject. The book is written so that the reader can use the enclosed diskette, with the aid of a personal computer, to systematically learn both analytical and numerical approaches associated with fluid flow and heat transfer without resorting to complex mathematical treatments. This is the first book that not only describes solution methodologies but also provides complete programs ranging from SOLODE to SAINTS for integration of Navier-Stokes equation. The book covers boundary layer flows to fully elliptic flows, laminar flows to turbulent flows, and free convection to forced convection. The student will learn about convection in porous media, a new field of rapid growth in contemporary heat transfer research. A basic knowledge of fluid mechanics and heat transfer is assumed. It is also assumed that the student knows the basics of Fortran and

has access to a personal computer. The material can be presented in a one-semester course or with selective coverage in a seminar.

Smart Sensing and Context Gerd Kortuem, Joe Finney, Rodger Lea, Vasughi Sundramoorthy, 2007-10-05 This book constitutes the refereed proceedings of the Second European Conference on Smart Sensing and Context, EuroSSC 2007, held in Kendal, England, October 2007. The 16 revised full papers and one invited paper were carefully reviewed and selected from over 51 submissions. The papers are organized in topical sections on spatial and motion context, human behavior as context, context frameworks and platforms and sensing technologies and case studies.

Augmented Reality Andrew Yeh Ching Nee, 2011-12-09 Augmented Reality (AR) is a natural development from virtual reality (VR), which was developed several decades earlier. AR complements VR in many ways. Due to the advantages of the user being able to see both the real and virtual objects simultaneously, AR is far more intuitive, but it's not completely detached from human factors and other restrictions. AR doesn't consume as much time and effort in the applications because it's not required to construct the entire virtual scene and the environment. In this book, several new and emerging application areas of AR are presented and divided into three sections. The first section contains applications in outdoor and mobile AR, such as construction, restoration, security and surveillance. The second section deals with AR in medical, biological, and human bodies. The third and final section contains a

number of new and useful applications in daily living and learning.

Measuring Road Safety with Surrogate Events Andrew Tarko, 2019-11-07
Measuring Road Safety Using Surrogate Events provides researchers and practitioners with the tools they need to quickly and effectively measure traffic safety. As traditional crash-based safety analyses are being undermined by today's growing use of intelligent vehicular and road safety technologies, crash surrogates--or near misses--can be more effectively used to measure the future risk of crashes. This book advances the idea of using these near-crash techniques to deliver quicker and more adequate measurements of safety. It explores the relationships between traffic conflicts and crashes using an extrapolation of observed events rather than post-crash data, which is significantly slower to obtain. Readers will find sound estimation methods based on rigorous scientific principles, offering compelling new tools to better equip researchers to understand road safety and its factors. Consolidates the latest updates/ideas from disparate places into a single resource Establishes a consistent use of key terms, definitions and concepts to help codify this emerging field Contains numerous application-oriented case studies throughout Includes learning aids, such as chapter objectives, a glossary, and links to data used in examples

Multimedia Information Storage and Management Soon M. Chung, 1996-08-31
Multimedia information systems are quite different from traditional information systems, especially in data types, modeling, delivery, and user

interface. The large size of multimedia data and the high bandwidth requirement of multimedia streams require new storage, buffering, delivery, and networking schemes. The presentational nature of multimedia applications requires a proper synchronization between multimedia streams, and the composition of multimedia documents in the distributed environment should overcome the heterogeneity of underlying systems. This book is edited for undergraduate and graduate students studying multimedia information and applications, researchers and developers of various multimedia software and hardware systems, multimedia tool developers, user interface designers, and network protocol designers by including 17 chapters focused on the following major issues: • Disk scheduling and storage hierarchy. • Configuration of multimedia servers and buffer management. • Delivery scheduling for multimedia streams. • Supporting user interactions. Document modeling and temporal modeling of multimedia data. • • Integrated multimedia information system.

Advances in Knowledge Discovery and Data Mining, Part I Mohammed J. Zaki, Jeffrey Xu Yu, B. Ravindran, Vikram Pudi, 2010-05-29 Annotation This book constitutes the proceedings of the 14th Pacific-Asia Conference, PAKDD 2010, held in Hyderabad, India, in June 2010.

Advanced Computer Science and Information Technology Tai-hoon Kim, Hojjat Adeli, Rosslin John Robles, Maricel Balitanas, 2011-09-28 This volume constitutes the refereed proceedings of the Third International Conference on

Advanced Science and Technology, AST 2011, held in Seoul, South Korea, in September 2011. The 37 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers feature ideas, problems and solutions relating to the multifaceted aspects of the Advanced Science and Technology, such as communication and networking; ubiquitous multimedia computing; security technology and information assurance; computer science, software engineering and applications thereof; bio-science and bio-technology; u- and e-service, science and technology; database theory and application; control and automation; signal processing, image processing and pattern recognition; as well as grid and distributed computing.

Handbook of Video Databases Borko Furht, Oge Marques, 2003-09-30 Technology has spurred the growth of huge image and video libraries, many growing into the hundreds of terabytes. As a result there is a great demand among organizations for the design of databases that can effectively support the storage, search, retrieval, and transmission of video data. Engineers and researchers in the field demand a comprehensi

Handbook of Mobile Ad Hoc Networks for Mobility Models Radhika Ranjan Roy, 2010-10-20 The Mobile Ad Hoc Network (MANET) has emerged as the next frontier for wireless communications networking in both the military and commercial arena. Handbook of Mobile Ad Hoc Networks for Mobility Models introduces 40 different major mobility models along with numerous associate

mobility models to be used in a variety of MANET networking environments in the ground, air, space, and/or under water mobile vehicles and/or handheld devices. These vehicles include cars, armors, ships, under-sea vehicles, manned and unmanned airborne vehicles, spacecrafts and more. This handbook also describes how each mobility pattern affects the MANET performance from physical to application layer; such as throughput capacity, delay, jitter, packet loss and packet delivery ratio, longevity of route, route overhead, reliability, and survivability. Case studies, examples, and exercises are provided throughout the book. Handbook of Mobile Ad Hoc Networks for Mobility Models is for advanced-level students and researchers concentrating on electrical engineering and computer science within wireless technology. Industry professionals working in the areas of mobile ad hoc networks, communications engineering, military establishments engaged in communications engineering, equipment manufacturers who are designing radios, mobile wireless routers, wireless local area networks, and mobile ad hoc network equipment will find this book useful as well.

Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German
, 2020-04-30 This highly-anticipated second edition of an Artech House classic covers several key radar analysis areas: the radar range equation, detection theory, ambiguity functions, waveforms, antennas, active arrays, receivers and signal processors, CFAR and chaff analysis. Readers will be able to predict the detection performance of a radar system using the radar range

equation, its various parameters, matched filter theory, and Swerling target models. The performance of various signal processors, single pulse, pulsed Doppler, LFM, NLFM, and BPSK, are discussed, taking into account factors including MTI processing, integration gain, weighting loss and straddling loss. The details of radar analysis are covered from a mathematical perspective, with in-depth breakdowns of radar performance in the presence of clutter. Readers will be able to determine the noise temperature of a multi-channel receiver as it is used in active arrays. With the addition of three new chapters on moving target detectors, inverse synthetic aperture radar (ISAR) and constant false alarm rate (CFAR) and new MATLAB codes, this expanded second edition will appeal to the novice as well as the experienced practitioner.

CT and MR Angiography of the Peripheral Circulation Debabrata Mukherjee, Sanjay Rajagopalan, 2007-05-30 This text discusses the basic aspects of multislice CT angiography with chapters on technical principles, basic scan technique for peripheral vascular imaging with multislice CT, image reconstruction with multislice CT, radiation doses, and contrast agent administration. Clinical applications for each major vascular territory are covered in-depth,

Signal Processing in Radar Systems Vyacheslav Tuzlukov, 2017-12-19 An essential task in radar systems is to find an appropriate solution to the problems related to robust signal processing and the definition of signal

parameters. Signal Processing in Radar Systems addresses robust signal processing problems in complex radar systems and digital signal processing subsystems. It also tackles the important issue of defining signal parameters. The book presents problems related to traditional methods of synthesis and analysis of the main digital signal processing operations. It also examines problems related to modern methods of robust signal processing in noise, with a focus on the generalized approach to signal processing in noise under coherent filtering. In addition, the book puts forth a new problem statement and new methods to solve problems of adaptation and control by functioning processes. Taking a systems approach to designing complex radar systems, it offers readers guidance in solving optimization problems. Organized into three parts, the book first discusses the main design principles of the modern robust digital signal processing algorithms used in complex radar systems. The second part covers the main principles of computer system design for these algorithms and provides real-world examples of systems. The third part deals with experimental measurements of the main statistical parameters of stochastic processes. It also defines their estimations for robust signal processing in complex radar systems. Written by an internationally recognized professor and expert in signal processing, this book summarizes investigations carried out over the past 30 years. It supplies practitioners, researchers, and students with general principles for designing the robust digital signal processing algorithms employed by complex

radar systems.

Assistive Technology from Adapted Equipment to Inclusive Environments Pier Luigi Emiliani, L. Burzagli, 2009 The concept of assistive technology is moving away from adopting the most appropriate devices to overcome the limitations of users, to the designing and setting up of total environments in which people can live, supported by suitable services and additional support devices integrated within the environment. These two perspectives are deeply intertwined, both from technological and social points of view, and the relationship between them currently represent the primary challenge for the field of assistive technology. This publication covers the proceedings of the 10th European Conference of the Association for the Advancement of Assistive Technology in Europe (AAATE), the organization which stimulates the advancement of assistive technology for the benefit of people with disabilities, including elderly people. This conference seeks to bridge the gap between these two complementary approaches, providing an opportunity to clarify differences and common points and to better define future direction. This publication is a significant contribution to the advancement of inclusion for people living with a disability everywhere.

Cleanroom Software Engineering Stacy J. Prowell, Carmen J. Trammell, Richard C. Linger, Jesse H. Poore, 1999-03-09 Cleanroom software engineering is a process for developing and certifying high-reliability software. Combining theory-based engineering technologies in project management, incremental

development, software specification and design, correctness verification, and statistical quality certification, the Cleanroom process answers today's call for more reliable software and provides methods for more cost-effective software development. Cleanroom originated with Harlan D. Mills, an IBM Fellow and a visionary in software engineering. Written by colleagues of Mills and some of the most experienced developers and practitioners of Cleanroom, Cleanroom Software Engineering provides a roadmap for software management, development, and testing as disciplined engineering practices. This book serves both as an introduction for those new to Cleanroom and as a reference guide for the growing practitioner community. Readers will discover a proven way to raise both quality and productivity in their software-intensive products, while reducing costs. Highlights Explains basic Cleanroom theory Introduces the sequence-based specification method Elaborates the full management, development, and certification process in a Cleanroom Reference Model (CRM) Shows how the Cleanroom process dovetails with the SEI's Capability Maturity Model for Software (CMM) Includes a large case study to illustrate how Cleanroom methods scale up to large projects.

Computers Helping People with Special Needs Klaus Miesenberger, Joachim Klaus, Wolfgang Zagler, Arthur Karshmer, 2008-07-14 Welcome to the proceedings of ICCHP 2008. We were proud to welcome participants from more than 40 countries from all continents to ICCHP. The International Programme Committee, encompassing 102 experts from all over the world, selected 150

full and 40 short papers out of 360 abstracts submitted to ICCHP. Our acceptance rate of about half of the submissions, demonstrates the scientific quality of the programme and in particular the proceedings you have in your hands. An impressive group of experts agreed to organize “Special Thematic Sessions” (STS) for ICCHP 2008. The existence of these STS sessions helped to bring the me- ing into sharper focus in several key areas of assistive technology. In turn, this deeper level of focus helped to bring together the state-of-the-art and mainstream technical, social, cultural and political developments. Our keynote speaker, Jim Fruchterman from BeneTech, USA highlighted the - portance of giving access to ICT and AT at a global level. In another keynote by H- old Thimbleby, Swansea University, UK, the role of user-centred design and usability engineering in assistive technology and accessibility was addressed. And finally, a combination keynote and panel discussion was reserved for WAI/WCAG2.0, which we expect to be the new reference point for Web accessibility from the summer of 2008 and beyond.

Text Mining Ashok N. Srivastava, Mehran Sahami, 2009-06-15 The Definitive Resource on Text Mining Theory and Applications from Foremost Researchers in the Field Giving a broad perspective of the field from numerous vantage points, Text Mining: Classification, Clustering, and Applications focuses on statistical methods for text mining and analysis. It examines methods to automatically cluster and classify te

Introduction to Radar Using Python and MATLAB Lee Andrew (Andy)

Harrison,2019-10-31 This comprehensive resource provides readers with the tools necessary to perform analysis of various waveforms for use in radar systems. It provides information about how to produce synthetic aperture (SAR) images by giving a tomographic formulation and implementation for SAR imaging. Tracking filter fundamentals, and each parameter associated with the filter and how each affects tracking performance are also presented. Various radar cross section measurement techniques are covered, along with waveform selection analysis through the study of the ambiguity function for each particular waveform from simple linear frequency modulation (LFM) waveforms to more complicated coded waveforms. The text includes the Python tool suite, which allows the reader to analyze and predict radar performance for various scenarios and applications. Also provided are MATLAB® scripts corresponding to the Python tools. The software includes a user-friendly graphical user interface (GUI) that provides visualizations of the concepts being covered. Users have full access to both the Python and MATLAB source code to modify for their application. With examples using the tool suite are given at the end of each chapter, this text gives readers a clear understanding of how important target scattering is in areas of target detection, target tracking, pulse integration, and target discrimination.

Imaging from Spaceborne and Airborne SARs, Calibration, and Applications
Masanobu Shimada,2018-10-26 Sixty years after its birth, Synthetic Aperture Radar (SAR) evolved as a key player of earth observation, and it is

continually upgraded by enhanced hardware functionality and improved overall performance in response to user requirements. The basic information gained by SAR includes the backscattering coefficient of targets, their phases (the truncated distance between SAR and its targets), and their polarization dependence. The spatiotemporal combination of the multiple data operated on the satellite or aircraft significantly increases its sensitivity to detect changes on earth, including temporal variations of the planet in amplitude and the interferometric change for monitoring disasters; deformations caused by earthquakes, volcanic activity, and landslides; environmental changes; ship detection; and so on. Earth-orbiting satellites with the appropriate sensors can detect environmental changes because of their large spatial coverage and availability. Imaging from Spaceborne and Airborne SARs, Calibration, and Applications provides A-to-Z information regarding SAR researches through 15 chapters that focus on the JAXA L-band SAR, including hardware description, principles of SAR imaging, theoretical description of SAR imaging and error, ScanSAR imaging, polarimetric calibration, inflight antenna pattern, SAR geometry and ortho rectification, SAR calibration, defocusing for moving targets, large-scale SAR imaging and mosaic, interferometric SAR processing, irregularities, application, and forest estimation. Sample data are created by using L-band SAR, JERS-1, PALSAR, PALSAR-2, and Pi-SAR-L2. This book is based on the author's experience as a principal researcher at JAXA with responsibilities for L-band SAR operation

and researches. It reveals the inside of SAR processing and application researches performed at JAXA, which makes this book a valuable reference for a wide range of SAR researchers, professionals, and students.

The Enigmatic Realm of **TScan**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **TScan** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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