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SEC Docket Oct 02 2022
An Introduction to Numerical Methods in C++ Jan 31 2020 Designed for the many applied mathematicians and engineers who wish to explore computerized numerical methods, this text communicates an enthusiasm for the power of C++, an object-oriented language, as a tool for this kind of work. This revision of the successful first edition includes for thefirst time information on programming in Windows-based environments. In addition this revision includes new topics and methods throughout the text that clarify and enhance the treatment of the subject. From reviews of the first edition: 'If you are interested in numerical

methods or are looking fora course text this book is worth your attention.'' Journal of the Association of C and C++ Users
Object Recognition Nov 30 2019 Automatie object recognition is a multidisciplinary research area using con cepts and tools from mathematics, computing, optics, psychology, pattern recognition, artificial intelligence and various other disciplines. The purpose of this research is to provide a set of coherent paradigms and algorithms for the purpose of designing systems that will ultimately emulate the functions performed by the Human Visual System (HVS). Hence, such systems should have the ability to recognise objects in two or three dimensions independently of their positions, orientations or scales in the image. The

HVS is employed for tens of thousands of recognition events each day, ranging from navigation (through the recognition of landmarks or signs), right through to communication (through the recognition of characters or people themselves). Hence, the motivations behind the construction of recognition systems, which have the ability to function in the real world, is unquestionable and would serve industrial (e.g. quality control), military (e.g. automatie target recognition) and community needs (e.g. aiding the visually impaired). Scope, Content and Organisation of this Book This book provides a comprehensive, yet readable foundation to the field of object recognition from which research may be initiated or guided. It repre sents the culmination of research topics that I have either covered personally or in conjunction with my PhD students. These areas include image acqui sition, 3-D object reconstruction, object modelling, and the matching of ob jects, all of which are essential in the construction of an object recognition system.

VOCUS: A Visual Attention System for Object Detection and Goal-Directed Search Jun 05 2020 This monograph presents a complete computational system for visual attention and object detection. VOCUS (Visual Object detection with a Computational attention System) represents a major step forward on integrating data-driven and model-driven information into a single framework. Additionally, the volume contains an extensive review of the literature on visual attention, detailed evaluations of VOCUS in different settings, and applications of the system.

Optical Superresolution Sep 20 2021 The authors explore the ways to improve the classical resolution limits of an imaging system, and provide novel approaches for achieving better results than would otherwise be possible with current imaging technology. The book begins by presenting the theoretical foundations, background information, and terminology of super resolution, and then discusses methods and systems used to achieve the super resolution effect. Various approaches to dealing with and exceeding the limitations of the lens aperture, the pixel size of the camera, and the noise generated at the detector are presented and analyzed. The last chapter illustrates several industry-related examples

and potential applications to real industrial electro-optical systems. This book is intended for graduate students or researchers in academia or industry, and anyone else looking to improve the performance of their electro-optical system design.

Middle Leadership Mastery Sep 01 2022 Never has there been a more crucial time to improve middle leadership. For many years school inspections have focused on data-driven outcomes and the role of senior leaders in driving school improvement; recently, however, the focus has shifted to curriculum and middle leadership. This has left middle leaders under increased pressure to be able to justify their actions and decisions. Instead of relying on generic leadership theories, Middle Leadership Mastery collates perspectives from psychology, sociology, cognitive science and Silicon Valley CEOs to share evidence-informed guidance on a wide range of topics - from designing a curriculum and quality assuring teaching to supporting staff and students in crisis and managing well-being. Adam Robbins draws on his 16 years' experience of teaching in a deprived area to illustrate his points with stories and anecdotes from the front line, demonstrating how middle leaders can better understand their context and deliver the best outcomes from a variety of starting points.

The PROBA2 Mission Mar 27 2022 The PRoject for OnBoard Autonomy (PROBA) missions are a series of microsatellites launched by the European Space Agency (ESA) and intended to provide an in-orbit test platform for new technologies. The second satellite in the series, PROBA2, was launched on November 2, 2009. The primary mission goal of PROBA2 is to perform an in-flight demonstration of a series of new spacecraft technologies. The secondary mission goal is the exploitation of the payload of scientific instruments consisting of two Sun-sensing instruments, the Sun Watcher with Active Pixel Sensor and Image Processing, and the Large Yield Radiometer. Both instruments are unique in a technological sense but also provide unique scientific data for the solar physics community. In this volume, a number of papers are collected that give an overview of the mission, the spacecraft, its instrument and its operations. In addition, the scientific outcome of the mission during the first two years is presented in a series of research

papers. This volume is aimed at graduate students and researchers active in solar physics and space science. Previously published in Solar Physics journal, Vol. 286, No. 1, 2013.

The School Leader's Year Jul 31 2022 This practical handbook offers a month-by-month guide to the curriculum, assessment, progress, and leadership over the school year. It provides a clear, comprehensive, and coherent structure to the academic year helping school leaders to prioritise their time and workload, supporting them and their team to work as efficiently and effectively as possible. Considering the statutory and key leadership activities from admissions, induction, transitions, and parents' evenings to coursework, timetabling, assessment, staff performance, and much more, the book provides a clear plan of action to ensure school leaders have prepared their work at the optimal time over the year. Each chapter features tried-and-tested strategies to help schools put robust systems and processes in place alongside guidance on sustaining pace, developing resilience, and exam preparation and technique. Full of practical tips to help improve progress and including real-world examples of leadership in action from leaders working in primary and secondary schools, this is essential reading for all school leaders that want their students to be as successful as they can possibly be in every lesson, every day.

Image Processing for Computer Graphics Aug 20 2021 Image processing is a central theme in computer graphics. This book provides a modern introduction to both the underlying mathematics and the main concepts and techniques of the subject. It covers important modern techniques such as morphing and warping images as well as dithering, compositing, and other operations on images.

Embedded Media Processing Apr 03 2020 In the past, embedded engineers needed to utilize a combination of traditional microcontrollers and DSP's (digital signal processors) in order to produce optimal designs for use in multimedia applications. However, this multiprocessor design technique is tough to implement, because it requires the engineer to write twice the code. Further, the designs resulting from such a marriage are limited because two processors cost more, take up more physical space, require more memory, and use up more power than just one would. And so a new kind of processor, the EMP (embedded media processor), was born! An embedded media processor combines the best aspects of a traditional microncontroller and a DSP for use in a multimedia product. As the demand grows for smaller, faster, multifunction, portable embedded products, such as video-enabled cellphones and pda's that play music or games, EMP's become more popular. As a result, an increasing number of engineers need to migrate from using multiprocessor methods to using EMP's in their designs. This book is the one-stop shop for the many engineers who need to understand what embedded media processors can do, and how to implement them. KEY FEATURES: comprehensive subject coverage with emphasis on practical application essential assembly language code included throughout many real-world examples using Analog's popular Blackfin Processor architecture This book provides information that engineers cannot get anywhere else. The discussion of EMP's is general enough to assure that engineers using any EMP, not just the Blackfin, will benefit from it. The book's in-depth analysis will allow engineers to decrease product development times and increase robust design for applications in multimedia. For about $50, the engineer is equipped by the experts and empowered to succeed.

Handbook of Computer Animation Nov 10 2020 Written by specialists in teaching computer animation, this text addresses key international topics of computer animation, such as: mathematics, modelling, rendering, and compositing. Each chapter discusses a particular topic and how it is applied, including state-of-the-art techniques that are used in computer animation. The handbook provides a complete and up-to-date picture of computer animation and will be a valuable reference source for programmers, technical directors and animators in computer animation, computer games and special effects and also undergraduate and postgraduate students. The editor, John Vince, has written and edited over 20 books on computer graphics, computer animation and virtual reality.

Bluescreen Compositing Jun 17 2021 DVD contains: "blue and

greenscreen footage for use in the detailed tutorials."

Advanced Man-Machine Interaction Dec 12 2020 Describes the implementation of modern features of man-machine interfaces and offers design guidelines, case studies and discusses algorithms for the implementation. Offers access to extensive public domain software for computer vision, classification and virtual reality.

Playing with Sound May 29 2022 An examination of the player's experience of sound in video games and the many ways that players interact with the sonic elements in games. In Playing with Sound, Karen Collins examines video game sound from the player's perspective. She explores the many ways that players interact with a game's sonic aspects—which include not only music but also sound effects, ambient sound, dialogue, and interface sounds—both within and outside of the game. She investigates the ways that meaning is found, embodied, created, evoked, hacked, remixed, negotiated, and renegotiated by players in the space of interactive sound in games. Drawing on disciplines that range from film studies and philosophy to psychology and computer science, Collins develops a theory of interactive sound experience that distinguishes between interacting with sound and simply listening without interacting. Her conceptual approach combines practice theory (which focuses on productive and consumptive practices around media) and embodied cognition (which holds that our understanding of the world is shaped by our physical interaction with it). Collins investigates the multimodal experience of sound, image, and touch in games; the role of interactive sound in creating an emotional experience through immersion and identification with the game character; the ways in which sound acts as a mediator for a variety of performative activities; and embodied interactions with sound beyond the game, including machinima, chip-tunes, circuit bending, and other practices that use elements from games in sonic performances.

Photonic Analog-to-Digital Conversion Oct 10 2020 Provides a comprehensive look at the application of photonic approaches to the problem of analog-to-digital conversion. It looks into the progress made to date, discusses present research, and presents a glimpse of potential future technologies.

The MPEG Handbook Mar 03 2020 First Published in 2004. Routledge is an imprint of Taylor & Francis, an informa company.

The Art and Science of Computer Animation Mar 15 2021 Computer animation is presented in a different, stimulating form. An introduction is provided to specialised techniques that draws on an audience from among students and practitioners in animation, graphic design and computer science.

Multimedia Mining Sep 08 2020 Multimedia Mining: A Highway to Intelligent Multimedia Documents brings together experts in digital media content analysis, state-of-art data mining and knowledge discovery in multimedia database systems, knowledge engineers and domain experts from diverse applied disciplines. Multimedia documents are ubiquitous and often required, if not essential, in many applications today. This phenomenon has made multimedia documents widespread and extremely large. There are tools for managing and searching within these collections, but the need for tools to extract hidden useful knowledge embedded within multimedia objects is becoming pressing and central for many decision-making applications. The tools needed today are tools for discovering relationships between objects or segments within multimedia document components, such as classifying images based on their content, extracting patterns in sound, categorizing speech and music, and recognizing and tracking objects in video streams.

SuperFractals Jun 25 2019 SuperFractals, first published in 2006, describes mathematics and algorithms for the first time in book form, with breathtaking colour pictures.

Drama in drie bedrijven Jun 29 2022 Tijdens een feestje bij de acteur Charles Cartwright sterft plotseling een van de gasten. Men vermoedt dat een hartaanval de doodsoorzaak is. De gastheer denkt echter aan moord. Hercule Poirot heeft het idee dat Cartwright graag de rol van amateurdetective wil spelen, maar dan sterft er weer iemand.

Signal Processing for Computer Vision Oct 29 2019 Signal Processing for Computer Vision is a unique and thorough treatment of

the signal processing aspects of filters and operators for low-level computer vision. Computer vision has progressed considerably over recent years. From methods only applicable to simple images, it has developed to deal with increasingly complex scenes, volumes and time sequences. A substantial part of this book deals with the problem of designing models that can be used for several purposes within computer vision. These partial models have some general properties of invariance generation and generality in model generation. Signal Processing for Computer Vision is the first book to give a unified treatment of representation and filtering of higher order data, such as vectors and tensors in multidimensional space. Included is a systematic organisation for the implementation of complex models in a hierarchical modular structure and novel material on adaptive filtering using tensor data representation. Signal Processing for Computer Vision is intended for final year undergraduate and graduate students as well as engineers and researchers in the field of computer vision and image processing.

Scanning Probe Lithography Jan 13 2021 Scanning Probe Lithography (SPL) describes recent advances in the field of scanning probe lithography, a high resolution patterning technique that uses a sharp tip in close proximity to a sample to pattern nanometer-scale features on the sample. SPL is capable of patterning sub-30nm features with nanometer-scale alignment registration. It is a relatively simple, inexpensive, reliable method for patterning nanometer-scale features on various substrates. It has potential applications for nanometer-scale research, for maskless semiconductor lithography, and for photomask patterning. The authors of this book have been key players in this exciting new field. Calvin Quate has been involved since the beginning in the early 1980s and leads the research time that is regarded as the foremost group in this field. Hyongsok Tom Soh and Kathryn Wilder Guarini have been the members of this group who, in the last few years, have brought about remarkable series of advances in SPM lithography. Some of these advances have been in the control of the tip which has allowed the scanning speed to be increased from mum/second to mm/second. Both non-contact and in-contact writing have been demonstrated as has

controlled writing of sub-100 nm lines over large steps on the substrate surface. The engineering of a custom-designed MOSFET built into each microcantilever for individual current control is another notable achievement. Micromachined arrays of probes each with individual control have been demonstrated. One of the most intriguing new aspects is the use of directly-grown carbon nanotubes as robust, high-resolution emitters. In this book the authors concisely and authoritatively describe the historical context, the relevant inventions, and the prospects for eventual manufacturing use of this exciting new technology.

Automotive Ethernet Oct 22 2021 Get up to speed with the latest developments in automotive Ethernet technology and implementation with this fully revised second edition.

Other Worlds (feat. stories by Rick Riordan, Shaun Tan, Tom Angleberger, Ray Bradbury and more) Nov 22 2021 Ten incredible trips into the unknown await you...

De winterroos May 05 2020 Deel 2 van de Rozen-trilogie In het jaar 1900 zijn de straten van het Londense East End allesbehalve geschikt voor een vrouw van goede komaf. Maar als een van de eerste vrouwelijke artsen is India Selwyn Jones toch al een buitenbeentje. En ze is vastbesloten een kliniek op te zetten in deze arme omgeving waar medische hulp zo hard nodig is. Hier ontmoet India de keiharde maar onweerstaanbare gangster Sid Malone. Sid is een tegenpool van India's kille verloofde, die het kapitaal van haar familie nodig heeft voor zijn politieke ambities. Geïntrigeerd door Sids mysterieuze verleden stort India zich in een affaire die haar alles kan kosten wat haar lief is. In de pers 'Doordrenkt van romantiek en authentieke details uit de tijdsperiode, zal dit boek alle fans van epische historische fictie enorm aanspreken.' Booklist 'Jennifer Donnelly heeft haar historische huiswerk goed gedaan.' The Washington Post 'Genieten: zo veel pagina's vol met romantiek, snode plannen, gedetailleerde achtergronden, plottwists en cliffhangers.' Publishers Weekly

X Power Tools Jul 27 2019 Provides information on the X Window System, covering such topics as X.org configuration, the X Server, utility programs, remote access, VNC, and keyboard configuration.

Motion Vision Aug 08 2020 This comprehensive book deals with motion estimation for autonomous systems from a biological, algorithmic and digital perspective. An algorithm, which is based on the optical flow constraint equation, is described in detail.

High Dynamic Range Video Feb 11 2021 High Dynamic Range Video: Concepts, Technologies and Applications gives an introduction to a full range of topics within the end-to-end HDR video pipeline, covering the issues around capturing HDR and stereo HDR video, such as ghosting and use of legacy LDR systems, how HDR video can be manipulated, including real-time mixing, the very latest designs for HDR displays, HDR video on mobile devices, and the applications of HDR video. With this book, the reader will gain an overview of the current state-of-the art of HDR video, learn the potential of HDR video to provide a step change to a wide range of imaging applications, and attain the knowledge needed to introduce HDR video in their own applications. Written by experts who have been actively researching High Dynamic Range Video Covers a full range of topics within the end-to-end HDR video pipeline Provides applications that demonstrate how HDR video can be applied

Dean Dempsey Solo Show Feb 23 2022

Relational Matching Apr 15 2021 This is an introduction to recursive functions intended for graduate students. It presupposes some mathematical maturity and a slight aquaintancewith some important topics, such as group theory and topology. Some acquaintance with logic is desirable but not essential. It introduces the main topics of recusion theory, such as hierarchy theory, RE sets, and undecidable theories, without going very deeply into any of them.

Open Source GIS Jan 25 2022 Open Source GIS: A GRASS GIS Approach was written for experienced GIS users, who want to learn GRASS, as well as for the Open Source software users who are GIS newcomers. Following the Open Source model of GRASS, the book includes links to sites where the GRASS system and on-line reference manuals can be downloaded and additional applications can be viewed. The project's website can be reached at http://grass.itc.it and a number of mirror sites worldwide. Open Source GIS: A GRASS GIS Approach, provides basic information about the use of GRASS from setting up the spatial database, through working with raster, vector and site data, to image processing and hands-on applications. This book also contains a brief introduction to programming within GRASS encouraging the new GRASS development. The power of computing within Open Source environment is illustrated by examples of the GRASS usage with other Open Source software tools, such as GSTAT, R statistical language, and linking GRASS to MapServer. Open Source GIS: A GRASS GIS Approach is designed to meet the needs of a professional audience composed of researchers and practitioners in industry and graduate level students in Computer Science and Geoscience.

De theeroos Sep 28 2019 Jennifer Donnelly combineert romantiek, historie en spanning op meesterlijke wijze Londen, 1888. Fiona Finnegan woont in een van de armoedige steegjes van East End, waar overdag kinderen spelen en 's nachts dieven, prostituees en dromers rondhangen. Ze werkt net als haar vader in de theefabriek van William Burton en droomt ervan om ooit samen met haar grote liefde Joe Bristow een eigen theewinkeltje te kunnen openen. Fiona's leven staat op z'n kop als haar vader door een onverklaarbaar ongeluk in de fabriek sterft. Fiona vermoedt dat er opzet in het spel is en dat ook zij gevaar loopt. Ze vlucht naar New York en werkt zich daar op naar de top van de Manhattanse theehandel. Ondanks haar succes kan ze het verleden echter niet laten rusten. Ze keert terug naar Londen voor een gevaarlijke confrontatie met de man die de dood van haar vader op zijn geweten heeft... De pers over de boeken van Jennifer Donnelly 'Doordrenkt van romantiek en authentieke details uit de tijdsperiode, zal dit boek alle fans van epische historische fictie enorm aanspreken.' Booklist 'Genieten: zo veel pagina's vol met romantiek, snode plannen, gedetailleerde achtergronden, plottwists en cliffhangers.' Publishers Weekly 'Jennifer Donnelly heeft haar historische huiswerk goed gedaan.' The Washington Post

Video Microscopy Jul 07 2020 Ever since television became practical in the early 1950s, closed-circuit television (CCTV) in conjunction with the light microscope has provided large screen display, raised image contrast, and made the images formed by ultraviolet and infrared rays

visible. With the introduction of large-scale integrated circuits in the last decade, TV equipment has improved by leaps and bounds, as has its application in microscopy. With modem CCTV, sometimes with the help of digital computers, we can distill the image from a scene that appears to be nothing but noise; capture fluorescence too dim to be seen; visualize structures far below the limit of resolution; crispen images hidden in fog; measure, count, and sort objects; and record in time-lapsed and high-speed sequences through the light microscope without great difficulty. In fact, video is becoming indispensable for harnessing the fullest capacity of the light microscope, a capacity that itself is much greater than could have been envisioned just a few years ago. The time seemed ripe then to review the basics of video, and of microscopy, and to examine how the two could best be combined to accomplish these tasks. The Marine Biological Laboratory short courses on Analytical and Quantitative Light Microscopy in Biology, Medicine, and the Materials Sciences, and the many inquiries I received on video microscopy, supported such an effort, and Kirk Jensen of Plenum Press persuaded me of its worth.

Federal Register Nov 03 2022

De vrouw in het zwart Jul 19 2021 De jonge jurist Arthur Kipps krijgt de opdracht om de begrafenis van Alice Drablow bij te wonen en haar nalatenschap uit te zoeken. Wat hij niet weet is dat er achter de gesloten luiken van haar grote huis tragische geheimen schuilgaan. Pas wanneer hij bij de begrafenis een glimp opvangt van een jonge vrouw met een uitgeteerd gelaat, die geheel gekleed is in het zwart, bekruipt hem een ongemakkelijk gevoel

Intelligent Multidimensional Data Clustering and Analysis Apr 27 2022 Data mining analysis techniques have undergone significant developments in recent years. This has led to improved uses throughout numerous functions and applications. Intelligent Multidimensional Data Clustering and Analysis is an authoritative reference source for the latest scholarly research on the advantages and challenges presented by the use of cluster analysis techniques. Highlighting theoretical foundations, computing paradigms, and real-world applications, this book is ideally

designed for researchers, practitioners, upper-level students, and professionals interested in the latest developments in cluster analysis for large data sets.

Een onberispelijke man Dec 24 2021 Alles aan Edward Feathers is vlekkeloos - zijn garderobe, zijn manieren, zijn naam en faam als topadvocaat met een glansrijke carrière in Hongkong. Door en door een gentleman, die zijn bijnaam Old Filth - Failed In London, Try Hong Kong - geen eer aandoet. Maar zijn onberispelijkheid is bedrieglijk en misleidt vaak ook hemzelf. Na de dood van Betty, zijn geliefde echtgenote, komen met de herinneringen ook de twijfels. Wat in hun huwelijk was genegenheid, wat respect en wat onvoorwaardelijke liefde? Wat hebben zij voor elkaar verborgen willen houden? Waarom heeft zij zijn collega en tegenpool Terence Veneering altijd verdedigd, of tenminste nooit een kwaad woord over hem gesproken? Edward heeft moeite het beeld van Betty helder te krijgen. Met Een onberispelijke man valt een grote auteur te ontdekken, een meester van de lichte toon en de zinderende sfeer. Niet voor niets noemt de Engelse pers haar in één adem met Katherine Mansfield en Jane Austen.

The Loose Ends Saga May 17 2021 Jeff Harris goes back in time to prevent the explosion of the space shuttle Challenger, but gets pulled into November 1963, and has 23 years to plan his intervention with the Challenger. He discovers that his actions in the past may result in the Soviet Union continuing in the 21st century. He strives with Laura and Karina to prevent this, and also the murder of John Lennon and the September 11 attacks, but the resilience and interconnections of history make it unlikely that they'll be able to stop all of those calamities, and the personal survival of at least one of them may be incompatible with their goals. The Saga contains Loose Ends - the novella nominated for Hugo, Nebula, and Sturgeon Awards - and its sequels Little Differences, Late Lessons, and Last Calls.

Electroluminescent Displays Jan 01 2020 This book discusses recent developments in electroluminescent (EL) displays, in particular thin-film EL displays, which are all-solid emissive displays with fast response, wide viewing angle, high resolution, wide operating temperature ranges

and good display qualities. First, the characteristics of four types of EL devices are presented, and the physics of ac thin-film EL devices are detailed, including ideal models, measuring and evaluation methods, high-field electronic transport and properties of phosphor materials. The book emphasizes recent developments in phosphor materials for color thin-film EL devices based on ZnS, SrS, CaS and CaGa2S4, and multicolor thin-film EL panels in four-panel structures. Other important features discussed are drive methods and reliability issues.

Observational Astrophysics Aug 27 2019 This second edition has been entirely restructured and almost doubled in size, in order to improve clarity and account for the great progress achieved in the field over the last 15 years. "This is not a handbook for observers. It is a broader reference for students, active researchers, and anyone who wants a detailed look at the tools of modern astronomy..." -PHYSICS TODAY