Anthony T. S. Ho, Shujun Li

High Performance Images Colin Bendell, Tim Kadlec, Yoav Weiss.Guv Podiarnv.Nick Dovle.Mike McCall.2016-11-03 Highquality images have an amazing power of attraction. Just add some stunning photos and graphics to your website or app and watch your user engagement and conversion numbers climb. It can be tricky, but with this practical guide, you'll master the many facets of delivering high performance images on the internet-without adversely affecting site performance. You'll learn the nuts and bolts of color theory, image formats, storage and management, operations delivery, browser and application behavior, the responsive web, and many other topics. Ideal for developers, this book also provides useful tips, tricks, and practical theory for processing and displaying powerful images that won't slow down your online product. Explore digital image theory and the different formats available Dive into JPEGs, SVG and vector images, lossless compression, and other formats Use techniques for downloading and rendering images in a browser, and for loading images on mobile devices and cellular networks Examine specific rendering techniques, such as lazy loading, image processing, image consolidation, and responsive images Take

responsive images to the next level by using content negotiation between browser and server with the Client Hints HTTP standard Learn how to operationalize your image workflow Contributors include Colin Bendell, Tim Kadlec, Yoav Weiss, Guy Podjarny, Nick Doyle, and Mike McCall from Akamai Technologies.

Multimedia Forensics Husrey Taha Sencar.Luisa Verdoliva, Nasir Memon, 2022-04-02 This book is open access. Media forensics has never been more relevant to societal life. Not only media content represents an ever-increasing share of the data traveling on the net and the preferred communications means for most users, it has also become integral part of most innovative applications in the digital information ecosystem that serves various sectors of society, from the entertainment, to journalism, to politics. Undoubtedly, the advances in deep learning and computational imaging contributed significantly to this outcome. The underlying technologies that drive this trend, however, also pose a profound challenge in establishing trust in what we see, hear, and read, and make media content the preferred target of malicious attacks. In this new threat landscape powered by innovative imaging technologies and sophisticated tools, based on autoencoders and generative adversarial networks, this book fills an important gap. It

presents a comprehensive review of state-of-the-art forensics capabilities that relate to media attribution, integrity and authenticity verification, and counter forensics. Its content is developed to provide practitioners, researchers, photo and video enthusiasts, and students a holistic view of the field.

Visual Informatics: Bridging Research and Practice Halimah Badioze Zaman, Peter Robinson, Maria Petrou, Patrick Olivier, Heiko Schröder, 2009-11-14 Visual informatics is a field of interest not just among the information technology and computer science community, but also other related fields such as engineering, mecal and health informatics and education starting in the early 1990s. Recently, the field is gaining more attention from researchers and industry. It has become a mul- disciplinary and trans-disciplinary field related to research areas such as computer vision, visualization, information visualization, real-time image processing, medical image processing, image information retrieval, virtual reality, augmented reality, - pressive visual mathematics, 3D graphics, multimedia-fusion, visual data mining, visual ontology, as well as services and visual culture. Various efforts has been vested in different research, but operationally, many of these systems are not pro- nent in the mass market and thus knowledge

and research on these phenomena within the mentioned areas need to be shared and disseminated. It is for this reason that the Visual Informatics Research Group from Universiti - bangsaan Malaysia (UKM) decided to spearhead this initiative to bring together experts in this very diversified but important research area so that more concerted efforts can be undertaken not just within the visual informatics community in Malaysia but from other parts of the world, namely, Asia, Europe, Oceania, and USA. This first International Visual Informatics Conference (IVIC 2009) was conducted collaboratively, by the visual informatics research community from the various public and private institutions of higher learning in Malaysia, and hosted by UKM.

JPEG Series K.R. Rao, Humberto Ochoa Domínguez, 2022-09-01 While the JPEG image standard was developed more than 25 years ago, it is still dominant in terms of image formation, manipulation and transmission over the internet and other media. As technology advances, new demands have arisen for the efficient transmission and storage of images causing other formats to emerge. Over the years, several extensions such as, JPEGLS, JPEG2K, JPEGXT, JPEGXR, JPEGXS and JPEG Pleno, have been added, constructing a series of standards for the

compression and transmission of images. This book is the first to bring together most of the series of JPEG standards in a book. This book covers the descriptions of the JPEG standards and gives the reader an overview of the latest advances in the standards of the Joint Photographic Experts Group. Topics discussed include: • JEPG;• JPEG XR;• JPEG XT;• JPEG 2000;• JPEG XS;• JPEG Pleno;• JPEG AIC;• JPEG LS;• JPEG XL;• JPSearch;• JPEG Systems;• JBIG

Photo Forensics Hany Farid,2019-02-26 The first comprehensive and detailed presentation of techniques for authenticating digital images. Photographs have been doctored since photography was invented. Dictators have erased people from photographs and from history. Politicians have manipulated photos for short-term political gain. Altering photographs in the predigital era required time-consuming darkroom work. Today, powerful and low-cost digital technology makes it relatively easy to alter digital images, and the resulting fakes are difficult to detect. The field of photo forensics—pioneered in Hany Farid's lab at Dartmouth College—restores some trust to photography. In this book, Farid describes techniques that can be used to authenticate photos. He provides the intuition and background as well as the mathematical and algorithmic details needed to understand, implement, and utilize a variety of photo forensic techniques. Farid traces the entire imaging pipeline. He begins with the physics and geometry of the interaction of light with the physical world, proceeds through the way light passes through a camera lens, the conversion of light to pixel values in the electronic sensor, the packaging of the pixel values into a digital image file, and the pixellevel artifacts introduced by photo-editing software. Modeling the path of light during image creation reveals physical, geometric, and statistical regularities that are disrupted during the creation of a fake. Various forensic techniques exploit these irregularities to detect traces of tampering. A chapter of case studies examines the authenticity of viral video and famously guestionable photographs including "Golden Eagle Snatches Kid" and the Lee Harvey Oswald backyard photo.

Mastering Mobile Forensics Soufiane Tahiri,2016-05-30 Develop the capacity to dig deeper into mobile device data acquisition About This Book A mastering guide to help you overcome the roadblocks you face when dealing with mobile forensics Excel at the art of extracting data, recovering deleted data, bypassing screen locks, and much more Get best practices to

how to collect and analyze mobile device data and accurately document your investigations Who This Book Is For The book is for mobile forensics professionals who have experience in handling forensic tools and methods. This book is designed for skilled digital forensic examiners, mobile forensic investigators, and law enforcement officers. What You Will Learn Understand the mobile forensics process model and get guidelines on mobile device forensics Acquire in-depth knowledge about smartphone acquisition and acquisition methods Gain a solid understanding of the architecture of operating systems, file formats, and mobile phone internal memory Explore the topics of of mobile security, data leak, and evidence recovery Dive into advanced topics such as GPS analysis, file carving, encryption, encoding, unpacking, and decompiling mobile application processes In Detail Mobile forensics presents a real challenge to the forensic community due to the fast and unstoppable changes in technology. This book aims to provide the forensic community an in-depth insight into mobile forensic techniques when it comes to deal with recent smartphones operating systems Starting with a brief overview of forensic strategies and investigation procedures, you will understand the concepts of file carving, GPS analysis, and string analyzing. You

will also see the difference between encryption, encoding, and hashing methods and get to grips with the fundamentals of reverse code engineering. Next, the book will walk you through the iOS, Android and Windows Phone architectures and filesystem, followed by showing you various forensic approaches and data gathering techniques. You will also explore advanced forensic techniques and find out how to deal with third-applications using case studies. The book will help you master data acquisition on Windows Phone 8. By the end of this book, you will be acquainted with best practices and the different models used in mobile forensics. Style and approach The book is a comprehensive guide that will help the IT forensics community to go more in-depth into the investigation process and mobile devices take-over.

Mathematics and Computing B. Rushi Kumar,S.

Ponnusamy, Debasis Giri, Bhavani Thuraisingham, Christopher W. Clifton, Barbara Carminati, 2023-03-14 This book comprises select peer-reviewed articles submitted for the proceedings of the International Conference on Mathematics and Computing (ICMC 2022), held by the School of Advanced Sciences, Vellore Institute of Technology, Vellore, India, in association with Ramanujan Mathematical Society, India, Cryptology Research Society of India

and Society for Electronic Transactions and Security, India, from 6–8 January 2022. With an aim to identify the existing challenges in the areas of mathematics and computing, the book emphasizes the importance of establishing new methods and algorithms to address these challenges. The book includes topics on diverse applications of cryptology, network security, cyber security, block chain, IoT, mobile network, data analytics, applied algebra, mathematical analysis, mathematical modelling, fluid dynamics, fractional calculus, multi-optimization, integral equations, dynamical systems, numerical analysis and scientific computing. Divided into five major parts-applied algebra and analysis, fractional calculus and integral equations, mathematical modelling and fluid dynamics, numerical analysis, and computer science and applications-the book is a useful resource for students, researchers and faculty as well as practitioners.

E - Learning Modules Dan Ryan,2012-06-20 The term e-Learning is a neologism for CSCL systems that came about during the emergence of website e-learning modules. From an e-learning perspective, conventional e-learning systems were then based on instructional packets, which were delivered to students using assignments. Assignments were evaluated by the instructor. In

contrast, the new e-learning places increased emphasis on social learning and use of social software such as blogs, wikis, podcasts and virtual worlds such as Second Life. This phenomenon has also been referred to as Long Tail Learning . E-learning by contrast to e-learning systems not based on CSCL, assumes that knowledge (as meaning and understanding) is socially constructed. Learning takes place through conversations about content and grounded interaction about problems and actions. Advocates of social learning claim that one of the best ways to learn something is to teach it to others. However, it should be noted that many early online courses, such as those developed by Murray Turoff and Starr Roxanne Hiltz in the 1970s and 80s at the New Jersey Institute of Technology, courses at the University of Guelph in Canada, the British Open University, and the online distance courses at the University of British Columbia (where Web CT, now incorporated into Blackboard Inc. was first developed), have always made heavy use of online discussion between students. Also, from the start, practitioners such as Harasim in 1995, have put heavy emphasis on the use of learning networks for knowledge construction, long before the term e-learning, let alone CSCL, was even considered. There is also an increased use of virtual

classrooms (online presentations delivered live) as an online learning platform and classroom for a diverse set of education providers such as Minnesota State Colleges and Universities and Sachem, MN, School District. In addition to virtual classroom environments, social networks have become an important part of elearning. Social networks have been used to foster online learning communities around subjects as diverse as test preparation and language education. Mobile Assisted Language Learning (MALL) is a term used to describe using handheld computers or cell phones to assist in language learning. Some feel, however, that schools have not caught up with the social networking trends. Few traditional educators promote social networking unless they are communicating with their own colleagues. DLR Associates consulting group first became interested in e-learning modules at the annual Distance Learning Conference held at the University of Maine. I decided to offer e-learning services, since we were already evolved with computer-assisted education techniques. DLR Associates had been involved with CAE since computers were first used in engineering education. It was our hope a trend could be started towards blended learning services, where computer-based activities were integrated with practical or classroom-based

situations. Dan Ryan Professor Emeritus Clemson University

Python for Cybersecurity Cookbook Nishant Krishna,2023-08-25 Learn how to use Python for vulnerability scanning, malware analysis, penetration testing, and more KEY FEATURES I Get familiar with the different aspects of cybersecurity, such as network security, malware analysis, and penetration testing. I Implement defensive strategies to protect systems, networks, and data from cyber threats. I Discover advanced offensive techniques for penetration testing, exploiting vulnerabilities, and assessing overall security posture.

DESCRIPTION Python is a powerful and versatile programming language that can be used for a wide variety of tasks, including general-purpose applications and specific use cases in cybersecurity. This book is a comprehensive guide to solving simple to moderate complexity problems in cybersecurity using Python. It starts with fundamental issues in reconnaissance and then moves on to the depths of the topics such as forensic analysis, malware and phishing analysis, and working with wireless devices. Furthermore, it also covers defensive and offensive security topics, such as system hardening, discovery and implementation, defensive security techniques, offensive security techniques, and penetration testing. By the end of this book, you will have a strong understanding of how to use Python for cybersecurity and be able to solve problems and create solutions independently. WHAT YOU WILL LEARN Learn how to use Python for cyber forensic analysis. Explore ways to analyze malware and phishing-based compromises. Use network utilities to gather information, monitor network activity, and troubleshoot issues. I Learn how to extract and analyze hidden information in digital files. Examine source code for vulnerabilities and reverse engineering to understand software behavior. WHO THIS BOOK IS FOR The book is for a wide range of people interested in cybersecurity, including professionals, researchers, educators, students, and those considering a career in the field. TABLE OF CONTENTS 1. Getting Started 2. Passive Reconnaissance 3. Active Reconnaissance 4. Development Environment for Advanced Techniques 5. Forensic Analysis 6. Metadata Extraction and Parsing 7. Malware and Phishing Analysis 8. Working with Wireless Devices 9. Working with Network Utilities 10. Source Code Review and Reverse Engineering 11. System Hardening, Discovery, and Implementation 12. Defensive Security Techniques 13. Offensive Security Techniques and Pen Testing

Handbook of Digital Forensics of Multimedia Data and Devices, Enhanced E-Book Anthony T. S. Ho, Shujun Li, 2016-05-20 Digital forensics and multimedia forensics are rapidly growing disciplines whereby electronic information is extracted and interpreted for use in a court of law. These two fields are finding increasing importance in law enforcement and the investigation of cybercrime as the ubiquity of personal computing and the internet becomes ever-more apparent. Digital forensics involves investigating computer systems and digital artefacts in general, while multimedia forensics is a sub-topic of digital forensics focusing on evidence extracted from both normal computer systems and special multimedia devices, such as digital cameras. This book focuses on the interface between digital forensics and multimedia forensics, bringing two closely related fields of forensic expertise together to identify and understand the current state-ofthe-art in digital forensic investigation. Both fields are expertly attended to by contributions from researchers and forensic practitioners specializing in diverse topics such as forensic authentication, forensic triage, forensic photogrammetry, biometric forensics, multimedia device identification, and image forgery detection among many others. Key features: Brings digital and

multimedia forensics together with contributions from academia, law enforcement, and the digital forensics industry for extensive coverage of all the major aspects of digital forensics of multimedia data and devices Provides comprehensive and authoritative coverage of digital forensics of multimedia data and devices Offers not only explanations of techniques but also real-world and simulated case studies to illustrate how digital and multimedia forensics techniques work Includes a companion website hosting continually updated supplementary materials ranging from extended and updated coverage of standards to best practice guides, test datasets and more case studies

Developing Android Applications with Adobe AIR Véronique Brossier,2011-04-29 Developing Android apps with Adobe AIR helps you to gain practical, hands-on experience on a wide range of development topics. This book introduces the Android programming environment, architecture and tools.

A Hitchhiker's Guide to Virtual Reality Karen McMenemy,Robin Stuart Ferguson,2007-07-25 A Hitchhiker's Guide to Virtual Reality brings together under one cover all the aspects of graphics, video, audio, and haptics that have to work together to make virtual reality a reality. Like any good guide, it

reveals the practical things you need to know, from the viewpoint of authors who have been there. This two-part guide covers the science, technology, and mathematics of virtual reality and then details its practical implementation. The first part looks at how the interface between human senses and technology works to create virtual reality, with a focus on vision, the most important sense in virtual reality. The second part of the book is tightly integrated with an accompanying CD, which contains the programs for more than 30 virtual reality projects, ranging in scope from a tool that simulates virtual sculpting to a suite of software for the control of a four-projector immersive virtual environment.

Multimedia Programming – A Practical Approach Siddhartha Bhattacharyya & Paramartha Dutta, Multimedia Programming: A Practical Approach is a maiden treatise on the core concepts of multimedia programming standards and practices catering to the different branches of Engineering disciplines of Computer Science, Information Technology, Electronics & Communication Engineering and Electrical Engineering of various Indian and Foreign Universities. The book deals with an in-depth analysis of the facets of hands on of multimedia programming essentials with reference to the different multimedia file standards in existence. Each chapter

of the book starts with a brief introduction of the topic and ends with review questions and programming exercises. The fundamental concepts of multimedia programming with Virtual Reality Markup Language (VRML) essentials are explained with suitable illustrations and real life examples. The book describes the core concepts of multimedia basics, multimedia file standards with reference to discrete and continuous media, multimedia devices and future of multimedia in the form of VRML with illustrative programming examples. The distinctive feature of this book is the assay of real-time programming examples in Win 32 API programming platform.

*Fake Photos* Hany Farid,2019-09-10 A concise and accessible guide to techniques for detecting doctored and fake images in photographs and digital media. Stalin, Mao, Hitler, Mussolini, and other dictators routinely doctored photographs so that the images aligned with their messages. They erased people who were there, added people who were not, and manipulated backgrounds. They knew if they changed the visual record, they could change history. Once, altering images required hours in the darkroom; today, it can be done with a keyboard and mouse. Because photographs are so easily faked, fake photos are everywhere—supermarket tabloids,

fashion magazines, political ads, and social media. How can we tell if an image is real or false? In this volume in the MIT Press Essential Knowledge series, Hany Farid offers a concise and accessible guide to techniques for detecting doctored and fake images in photographs and digital media. Farid, an expert in photo forensics, has spent two decades developing techniques for authenticating digital images. These techniques model the entire image-creation process in order to find the digital disruption introduced by manipulation of the image. Each section of the book describes a different technique for analyzing an image, beginning with those requiring minimal technical expertise and advancing to those at intermediate and higher levels. There are techniques for, among other things, reverse image searches, metadata analysis, finding image imperfections introduced by JPEG compression, image cloning, tracing pixel patterns, and detecting images that are computer generated. In each section, Farid describes the techniques, explains when they should be applied, and offers examples of image analysis.

National Traffic Incident Management Responder Training Program: Train-The-Trainer Guide Federal Highway Administration (U.S.),2015-09-17 This comprehensive guide provides the training materials for Traffic Incident Management (TIM) Responders four (4) hour course with three main goals including Responder safety; Safe, guick clearance; and Prompt, reliable, interoperable communications This Train-the Trainer- Guide is aimed at all responder disciplines including law enforcement, fire and rescue, emergency medical services (EMS), towing operators and recovery units, highway/transportation agencies at the Federal and State levels, and Communication centers to include 9-1-1 and transportation management centers (TMCs). Each lesson includes an objective plus offers black and white photos to easily identify with the program lessons that follow to address the incidents as a method to train the students. Emergency management personnel, fire and rescue teams, and law enforcement may be interested in this guide as a desk reference. Additionally, students hoping to become certified within these employment areas may want to familiarize their knowledge with these vital lessons prior to beginning on-the-job duties. Other related products that may be of interest include: Code of Federal Regulations, Title 49, Transportation, Pt. 572-999, Revised as of October 1, 2015 can be found here:

https://bookstore.gpo.gov/products/sku/869-082-00224-7?ctid=199

Traffic Incident Management in Hazardous Materials Spills in Incident Clearance can be found here:

https://bookstore.gpo.gov/products/sku/050-001-00345-7?ctid=199 Public Roads bi-monthly print magazine subscription can be found here:

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Single-Sensor Imaging Rastislav Lukac, 2018-10-03 A Decade of Extraordinary Growth The past decade has brought a surge of growth in the technologies for digital color imaging, multidimensional signal processing, and visual scene analysis. These advances have been crucial to developing new cameradriven applications and commercial products in digital photography. Single-Sensor Imaging: Methods and Applications for Digital Cameras embraces this extraordinary progress, comprehensively covering state-of-the-art systems, processing techniques, and emerging applications. Experts Address Challenges and Trends Single-Sensor Imaging: Methods and Applications for Digital Cameras presents leading experts elucidating their own accomplishments in developing the technologies reshaping this field. The editor invited renowned authorities to address specific research challenges and recent trends in their particular areas of

expertise. The book discusses single-sensor digital color imaging fundamentals, including reusable embedded software platform, digital camera image processing chain, optical filter and color filter array designs. It also details the latest techniques and approaches in contemporary and traditional digital camera color image processing and analysis for various sophisticated applications, including: Demosaicking and color restoration White balancing and color transfer Color and exposure correction Image denoising and color enhancement Image compression and storage formats Redeye detection and removal Image resizing Video-demosaicking and superresolution imaging Image and video stabilization A Solid Foundation of Knowledge to Solve Problems Single-Sensor Imaging: Methods and Applications for Digital Cameras builds a strong fundamental understanding of theory and methods for solving many of today's most interesting and challenging problems in digital color image and video acquisition, analysis, processing, and storage. A broad survey of the existing solutions and relevant literature makes this book a valuable resource both for researchers and those applying rapidly evolving digital camera technologies.

*Forensic Computing* Anthony Sammes, Brian Jenkinson, 2007-08-18 In the second edition of this very successful

book, Tony Sammes and Brian Jenkinson show how the contents of computer systems can be recovered, even when hidden or subverted by criminals. Equally important, they demonstrate how to insure that computer evidence is admissible in court. Updated to meet ACPO 2003 guidelines, Forensic Computing: A Practitioner's Guide offers: methods for recovering evidence information from computer systems; principles of password protection and data encryption; evaluation procedures used in circumventing a system's internal security safeguards, and full search and seizure protocols for experts and police officers.

Handbook of Research on Computational Forensics, Digital Crime, and Investigation: Methods and Solutions Li, Chang-Tsun,2009-11-30 This book provides a media for advancing research and the development of theory and practice of digital crime prevention and forensics, embracing a broad range of digital crime and forensics disciplines--Provided by publisher.

Robotics, Vision and Control Peter Corke,2023-05-09 This textbook provides a comprehensive, but tutorial, introduction to robotics, computer vision, and control. It is written in a light but informative conversational style, weaving text, figures, mathematics, and lines of code into a narrative that covers robotics

and computer vision-separately, and together as robotic vision. Over 1600 code examples show how complex problems can be decomposed and solved using just a few simple lines of code. This edition is based on Python and is accompanied by fully opensource Python-based Toolboxes for robotics and machine vision. The new Toolboxes enable the reader to easily bring the algorithmic concepts into practice and work with real, non-trivial, problems on a broad range of computing platforms. For the beginning student the book makes the algorithms accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used. The code can also be the starting point for new work, for practitioners, students, or researchers, by writing programs based on Toolbox functions, or modifying the Toolbox code itself.

Proceedings of the European Information Security Multi-Conference (EISMC 2013) Nathan Clarke, Steven Furnell, Vasilis Katos, 2013 This book represents the proceedings from the information security multi-conference (EISMC). All of the papers were subject to double-blind peer review, with each being reviewed by at least two members of the international programme committee.

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Table of Contents	∘ The	r
Exif Wmarker	Rise of	<ul> <li>Advanta</li> </ul>
	Digital	ges of
1. Understanding	Reading	eBooks
the eBook	Exif	Over
Exif Wmarker	Wmarke	Traditio

nal	• Popular	lized
Books	eBook	Recom
2. Identifying	Platform	mendati
Exif Wmarker	S	ons
• Explorin	∘ Feature	∘ Exif
g	s to	Wmarke
Different	Look for	r User
Genres	in an	Reviews
• Conside	Exif	and
ring	Wmarke	Ratings
Fiction	r	∘ Exif
vs. Non-	∘ User-	Wmarke
Fiction	Friendly	r and
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Wmarke	∘ Exif	ting and
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Friendly	Enhanc	Exif
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6. Navigating	eBook	r
Exif Wmarker	Feature	∘ Interacti
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