

Science

Stage 5

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**Maurie Cohen, Halina Szejnwald
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From Grain to Pixel Giovanna Fossati, 2025-10-01 In *From Grain to Pixel* Giovanna Fossati analyzes the transition from analog to digital film and its profound effects on filmmaking and film archiving. Reflecting on the theoretical conceptualization of the medium itself, Fossati poses significant questions about the status of physical film and the practice of its archival preservation, restoration, and presentation. *From Grain to Pixel* attempts to bridge the fields of film archiving and academic research by addressing the discourse on film's ontology and analyzing how different interpretations of what film is affect the role and practices of film archives. By proposing a novel theorization of film archival practice, Fossati aims to stimulate a renewed dialogue between film scholars and film archivists. Almost a decade after its first publication, this revised edition covers the latest developments in the field. Besides a new general introduction, a new conclusion, and extensive updates to each chapter, a novel theoretical framework and an additional case study have been included.

A Biography of the Pixel Alvy Ray Smith, 2021-08-03 The pixel as the organizing principle of all pictures, from cave paintings to *Toy Story*. The Great Digital Convergence of all media types into one universal digital medium occurred with little fanfare at the recent turn of the millennium. The bit became the universal medium, and the pixel, a particular packaging of bits, conquered the world. Henceforward, nearly every picture in the world would be composed of pixels: cell phone pictures, app interfaces, Mars Rover transmissions, book illustrations, videogames. In *A Biography of the Pixel*, Pixar cofounder Alvy Ray Smith argues that the pixel is the organizing principle of most modern media, and he presents a few simple but profound ideas that unify the dazzling varieties of digital image making. Smith's story of the pixel's development begins with Fourier waves, proceeds through Turing machines, and ends with the first digital movies from Pixar, DreamWorks, and Blue Sky. Today, almost all the pictures we encounter are digital, mediated by the pixel, and irretrievably separated from their media museums and kindergartens are two of the last outposts of the analog. Smith explains engagingly and accessibly how pictures composed of invisible stuff become visible; that is, how digital pixels convert to analog display elements. Taking the special case of digital movies to represent all of Digital Light, his term for pictures constructed of pixels, and drawing on his decades of work in the field, Smith approaches his subject from multiple angles: art, technology, entertainment business, and history. *A Biography of the Pixel* is essential reading for anyone who has watched a video on a cell phone, played a videogame, or seen a movie. 400 pages of annotations prepared by the author and available online provide an invaluable resource for readers.

Radioluminescence Jan Lindström, 2021-03-24 A phosphor or scintillator is a material that will emit visible light when struck by ionising radiation. In the early days of diagnostic radiology, it was discovered that the radiation dose needed to get an image on a film could be greatly reduced by inserting a fluorescent layer of a phosphor in direct contact with the film. Thus, introducing the step of converting the ionising radiation to light in a first step. Going forward in time, film has been replaced with photodetectors, and there is now a variety of imaging x-ray systems still based on phosphors and scintillators. There is continuous research going

on to optimise between the radiation dose needed and a sufficient image quality These factors tend to be in opposition to each other It is a complicated task to optimise these imaging system and new phosphor materials emerges regularly One of the key factors is the efficiency of the conversion from xrays to light In this work this is denoted extrinsic efficiency It is important since it largely determines the final dose to the patient needed for the imaging task Most imaging x ray detectors are based on phosphor or scintillator types where their imaging performance has been improved through tweaking of various parameters light guide structure higher density light emission spectrum matching to photodetectors delayed fluorescence quenching etc One key factor that largely determines the extrinsic efficiency of a specific phosphor is the particle size Larger particles result in a higher luminance of the phosphor for the same radiation dose as does as a thicker phosphor layer to a limit There exists already a battery of models describing various phosphor qualities However particle size and thickness have not been treated as a fully independent variables in previous model works Indirectly the influence of these parameters is accounted for but the existing models were either considered too general containing several complex parameters and factors to cover all kind of cases or too highly specialised to be easily applicable to fluorescent detectors in diagnostic radiology The aim of this thesis is therefore to describe and assess a simple model denoted the LAC model after the original authors Lindström and Alm Carlsson developed for a fluorescent layer using individual sub layers defined by the particle size diameter The model is thought to be a tool for quickly evaluating various particle size and fluorescent layer thickness combinations for a chosen phosphor and design It may also serve as a more intuitive description of the underlying parameters influencing the final extrinsic efficiency Further tests affirmed the validity of the model through measurements The LACmodel produced results deviating a maximum of 5 % from luminescence measurements During the development of the model various assumptions and simplifications were made One assumption was the absence of a so called dead layer This is a layer supposedly surrounding each particle decreasing the efficiency of converting x rays to light It is not completely dead as in inactive but is thought to have a reduced efficiency This phenomenon was struggled with when historically designing electron beam stimulated phosphors for various applications i e displays TV tubes etc There are also articles reporting dead layer influence for x ray detectors usually spectrometers i e not for imaging By introducing a dead layer in the LAC model the effect of the layer was investigated and was found to result in a change of less than 8% for the extrinsic efficiency It was also noted that sometimes a dead layer effect may emerge at surfaces of a scintillator slab but not necessarily connected to the phosphor particles themselves Due to differences between phosphor material and the surroundings an interface effect arose to compete with the process of inherent dead layers of the individual particles It was found to be mostly negligible for x rays in the studied energy and material range However an effect was shown for electrons as incident ionising radiation which could shed some light on the strangely neglected apparent dead layer created this way Finally applications one involving developing a prototype for checking the light field radiation field coincidence were evaluated for overall performance and the

optimisation level of the applied fluorescent layer Interesting findings were made during the development process for the first time to the knowledge of the author focus shift wandering was quantified in the corresponding movement of the x ray field edge and a non trivial discussion on the concept of an apparent light field edge resulted in a modified definition of the same En fosfor eller scintillator r ett material som avger synligt ljus n r det tr ffas av joniserande str lning Inom diagnostisk radiologi uppt ckte man i ett tidigt skede att str ldosen som beh vdes f r att f en bild p en r ntgenfilm reducerades kraftigt om man placerade ett fluorescerande skikt en fosfor i direkt kontakt med filmen I nutid har film ersatts med fotodetektorer och det finns nu en m ngd olika r ntgenbildsystem men som fortfarande r baserade p fosforer och scintillatorer Det p g r en kontinuerlig forskning f r att optimera mellan erforderlig str ldos och en tillr cklig god diagnostisk bildkvalitet Dessa faktorer tenderar att motverka varandra Det r en komplicerad uppgift att optimera r ntgenbildsystemen och nya fosformaterial dyker st ndigt upp En av de viktiga egenskaperna r fosforns omvandlingseffektivitet fr n r ntgen till ljus I detta arbete anv nds ben mningen extrinsisk yttre effektivitet Denna egenskap r viktig eftersom den i stor utstr ckning best mmer den slutliga dosen till patienten som kr vs f r bilddiagnostiken De flesta r ntgendetektorer r baserade p fosfor eller scintillatortyper d r bildprestanda har f rb ttrats genom att utveckla olika parametrar ljusledarstruktur h gre densitet ljusemissionsspektrum som matchar fotodetektorer minskad efterlysning etc En viktig faktor som i stor utstr ckning best mmer omvandlingseffektiviteten hos en specifik fosfor r partikelstorleken St rre partiklar resulterar i en h gre luminescens mer ljus fr n fosforen f r samma str ldos Vilket ocks g ller f r ett tjockare fosforlager till en viss gr ns Det finns redan fysikaliska modeller som beskriver olika fosforparametrar men partikelstorlek och fosfortjocklek har dock inte hanterats som frist ende variabler i dessa modellarbeten Ist llet har deras inverkan modellerats indirekt men det har gjort att de befintliga modellerna kan anses komplexa De r antingen f r generella som medf r flera komplexa parametrar och faktorer f r att t cka alla t nkbara varianter eller f r specialiserade f r att kunna till mpas enkelt p fluorescerande detektorer i diagnostisk radiologi Syftet med denna avhandling r d rf r att beskriva och analysera en praktisk modell betecknad LAC modellen efter de ursprungliga f rfattarna Lindstr m och Alm Carlsson Den r utvecklad f r ett fluorescerande block som best r av flera underliggande skikt vars tjocklek best ms av partiklarnas diameter Avsikten med modellen r att den ska vara ett verktyg f r att snabbt utv rdera olika varianter av partikelstorlek och tjockleks kombinationer f r en vald fosfor med i grunden samma design Experiment har bekr ftat modellens giltighet och m tresultat visar att modellresultaten avvek maximalt 5% fr n luminiscensm tningar Utvecklingen av modellen kr vde olika antaganden och f renklingar Ett antagande var fr nvaron av ett s kallat d tt lager Det r ett skikt som antas omge varje partikel och som d rf r minskar omvandlingseffektiviteten fr n r ntgen till ljus Det r dock inte helt d tt i meningen helt inaktivt men har en mindre f rm ga att omvandla r ntgen till ljus j mf rt med fosforns huvudmaterial Historisk sett har man f rs kt tg rda detta fenomen under l ng tid och speciellt f r applikationer d r man anv nt sig av elektronstr lar dvs olika typer av displayer TV r r etc Just f r elektroner har man sett att d da skiktet tenderar att v xa med tiden Det finns ocks

artiklar som rapporterar en påverkan av röntgendetektorers funktion vanligtvis dock för spektrometrar dvs inte för avbildning. Genom att införa ett dött skikt i LAC modellen undersöktes skiktets effekt och visade sig resultera i en förändring på mindre än 8% för effektiviteten. Det noterades också att ibland kan en detsdiktliknande effekt uppstå vid yttor av ett scintillatorblock men inte nödvändigtvis pga av själva fosforpartiklarnas ljusomvandlingsegenskaper. Det uppstår skillnader mellan fosformaterialet och omgivningen för man ens kan gränsskiktseffekt som så små konkurrerar med kemiskt dda skiktet på de enskilda partiklarna. De dda skiktens inverkan visade sig i princip försumbara för röntgenbild detektorer tminstone inom det studerade energi och materialområdet. En tydlig effekt kunde dock noteras för joniserande strålning i form av elektroner. Simuleringarna kunde ge en bättre bild av egenskaperna hos det dda skiktet som skapats på detta sätt. Slutligen utvärderades två applikationer med hjälp av LAC modellen en prototyp för kontroll av ljusflödet och strålförlorets verkningsområde i låg och position. Samt en etablerad produkt med samma användningsområde. I båda fallen undersöktes det fluorescerande skiktets optimeringsgrad. Intressanta resultat noterades under utvecklingsprocessen av prototypen för första gången. Sitt författaren vet kunde man kvantifiera röntgenrörskfokusvandring.

Computer Vision and Recognition Systems Chiranji Lal Chowdhary, G. Thippa Reddy, B. D. Parameshachari, 2022-03-09. This cutting edge volume focuses on how artificial intelligence can be used to give computers the ability to imitate human sight. With contributions from researchers in diverse countries including Thailand, Spain, Japan, Turkey, Australia and India, the book explains the essential modules that are necessary for comprehending artificial intelligence experiences to provide machines with the power of vision. The volume also presents innovative research developments, applications and current trends in the field. The chapters cover such topics as visual quality improvement, Parkinson's disease diagnosis, hypertensive retinopathy detection through retinal fundus, big image data processing, N-grams for image classification, medical brain images, chatbot applications, credit score improvisation, vision-based vehicle lane detection, damaged vehicle parts recognition, partial image encryption of medical images and image synthesis. The chapter authors show different approaches to computer vision, image processing and frameworks for machine learning to build automated and stable applications. Deep learning is included for making immersive application-based systems, pattern recognition and biometric systems. The book also considers efficiency and comparison at various levels of using algorithms for real-time applications, processes and analysis.

Proceedings of the International Conference on Intelligent Systems and Signal Processing Rahul Kher, Dr. Nikhil Gondaliya, Mukesh Bhesaniya, Latif Ladid, Mohammed Atiquzzaman, 2018-01-18. The book provides insights into the International Conference on Intelligent Systems and Signal Processing (ISSP) 2017 held at G. H. Patel College of Engineering Technology, Gujarat, India, during March 24-25, 2017. The book comprises contributions by the research scholars and academicians covering the topics in signal processing and communication engineering, applied electronics and emerging technologies, computer vision and machine learning, big data and cloud computing and advanced intelligent power electronics and drives systems. The main emphasis of the book is on

dissemination of information experience and research results on the current topics of interest through in depth discussions and contribution of researchers from all over world The book is useful for research community academicians industrialists and post graduate students across the globe

Safety and Reliability – Safe Societies in a Changing World Stein Haugen, Anne Barros, Coen van Gulijk, Trond Kongsvik, Jan Erik Vinnem, 2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world These methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management Safety and Reliability Safe Societies in a Changing World will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and aerospace marine transport and engineering railways road transport automotive engineering civil engineering critical infrastructures electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications insurance and finance manufacturing marine transport mechanical engineering security and protection and policy making

Social Change and the Coming of Post-consumer Society Maurie Cohen, Halina Szejnwald Brown, Philip Vergragt, 2017-03-31 Consumer society is an unquestionably complex social construct However after decades of unrelenting dominance there are signs emerging that it is starting to falter both as a coherent and durable system of social organization and as a strategy for societal advancement Debates concerning how we can transition beyond present energy and materials intensive consumer society are beginning to gain greater salience Social Change and the Coming of Post Consumer Society aims to develop more complete appreciation of the relevant processes of social change and to identify effective interventions that could enable a transition to supersede consumer society Bringing together leading interdisciplinary experts on social change the book identifies and analyzes several ongoing small and modest scale social experiments Possibilities for macro scale change from the interlinked perspectives of culture economics finance and governance are then explored These contributions expose the systemic problems that are emblematic of the current condition of consumer society specifically the unsustainability of prevailing consumption practices and lifestyles and the persistence of inequalities These observations are summarized and extended in the final chapter of the book This volume will be of great interest to students and scholars of sustainable consumption sustainability transitions environmental sociology

and sustainable development **Intelligent Technologies and Applications** Imran Sarwar Bajwa, Fairouz Kamareddine, Anna Costa, 2019-03-11 This book constitutes the refereed proceedings of the First International Conference on Intelligent Technologies and Applications INTAP 2018 held in Bahawalpur Pakistan in October 2018 The 68 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 251 submissions The papers of this volume are organized in topical sections on AI and health sentiment analysis intelligent applications social media analytics business intelligence Natural Language Processing information extraction machine learning smart systems semantic web decision support systems image analysis automated software engineering **Biometrics: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources, 2016-08-30 Security and authentication issues are surging to the forefront of the research realm in global society As technology continues to evolve individuals are finding it easier to infiltrate various forums and facilities where they can illegally obtain information and access By implementing biometric authentications to these forums users are able to prevent attacks on their privacy and security Biometrics Concepts Methodologies Tools and Applications is a multi volume publication highlighting critical topics related to access control user identification and surveillance technologies Featuring emergent research on the issues and challenges in security and privacy various forms of user authentication biometric applications to image processing and computer vision and security applications within the field this publication is an ideal reference source for researchers engineers technology developers students and security specialists **Computer Vision - ECCV 2020** Andrea Vedaldi, Horst Bischof, Thomas Brox, Jan-Michael Frahm, 2020-11-11 The 30 volume set comprising the LNCS books 12346 until 12375 constitutes the refereed proceedings of the 16th European Conference on Computer Vision ECCV 2020 which was planned to be held in Glasgow UK during August 23 28 2020 The conference was held virtually due to the COVID 19 pandemic The 1360 revised papers presented in these proceedings were carefully reviewed and selected from a total of 5025 submissions The papers deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation Unconventional Optical Imaging for Biology Corinne Fournier, Olivier Haeberle, 2024-04-15 Optical imaging of biological systems has undergone spectacular development in recent years producing a quantity and a quality of information that just twenty years ago could only be dreamed of by physicists biologists and physicians Unconventional imaging systems provide access to physical quantities phase absorption optical index the polarization property of a wave or the chemical composition of an object not accessible to conventional measurement systems To achieve this these systems use special optical setups and specific digital image processing to reconstruct physical quantities This field is also known as computational imaging This book presents various non conventional imaging modalities developed for the biomedical field

wave front analysis imaging digital holography tomography optical nanoscopy endoscopy and single sensor imaging
 Experimental setups and reconstruction algorithms are presented for each modality **Handbook of Research on
 Natural Computing for Optimization Problems** Mandal, Jyotsna Kumar, Mukhopadhyay, Somnath, Pal, Tandra, 2016-05-25
 Nature inspired computation is an interdisciplinary topic area that connects the natural sciences to computer science Since
 natural computing is utilized in a variety of disciplines it is imperative to research its capabilities in solving optimization
 issues The Handbook of Research on Natural Computing for Optimization Problems discusses nascent optimization
 procedures in nature inspired computation and the innovative tools and techniques being utilized in the field Highlighting
 empirical research and best practices concerning various optimization issues this publication is a comprehensive reference
 for researchers academicians students scientists and technology developers interested in a multidisciplinary perspective on
 natural computational systems **Proceedings of the Eighth International Conference on Soft Computing and
 Pattern Recognition (SoCPaR 2016)** Ajith Abraham, Aswani Kumar Cherukuri, Ana Maria Madureira, Azah Kamilah
 Muda, 2017-08-17 This volume presents 70 carefully selected papers from a major joint event the 8th International
 Conference on Soft Computing and Pattern Recognition SoCPaR 2016 and the 8th International Conference on
 Computational Aspects of Social Networks CASoN 2016 SoCPaR CASoN 2016 which was organized by the Machine
 Intelligence Research Labs MIR Labs USA and Vellore Institute of Technology VIT India and held at the VIT on December 19
 21 2016 It brings together researchers and practitioners from academia and industry to share their experiences and
 exchange new ideas on all interdisciplinary areas of soft computing and pattern recognition as well as intelligent methods
 applied to social networks This book is a valuable resource for practicing engineers scientists and researchers working in the
 field of soft computing pattern recognition and social networks An Improved Lightweight Privacy Preserving
 Authentication Scheme for SIP-Based-VoIP Using Smart Card Saeed Ullah Jan, 2017-04 In the past few years secure
 information sharing became very popular in the area of immigration military applications healthcare education foreign affairs
 etc As secure communication utilizes both wireless and wired communication mechanizations for exchanging sensitive
 information security and privacy of the information exchange cannot be easily compromised To moderate the security
 integrity authenticity and privacy issues related to information exchange numerous authentication mechanisms have been
 recommended by different researchers in the literature in recent times but these are vulnerable to prospective security flaws
 such as masquerade insider replay impersonation password guessing server spoofing denial of service attacks and in addition
 have failed to deliver mutual authentication In the past few years we have also witnessed a balanced growth in the
 acceptance of VoIP Voice over IP facilities because the numerous Web and VoIP applications depend on huge and extremely
 distributed infrastructures to process requests from millions of users in an appropriate manner Due to their extraordinary
 desires these large scale internet applications have frequently surrendered security for other objectives such as performance

scalability and availability As a result these applications have characteristically favored weaker but well organized security mechanisms in their foundations Session Initiation Protocol SIP is an application and presentation layers signaling protocol that initiates modifies and terminates IP based multimedia sessions Implementing SIP for secure communication has been a topic of study for the past decade and several proposals are available in the research domain However security aspects are not addressed in most of these proposals because SIP is exposed to several threats and faces security issues at these layers Probes for SIP Session Initiation Protocol servers have been conveyed for many years To gather more details about these activities the author has designed a scheme for SIP servers in a network and composed data about some popular attacks Furthermore he explains his interpretations and guidance on how to prevent these attacks from being successful Biometrics a new field of research has also been dealt with in this research by means of a three factor authentication scheme in which one factor is biometrics Methods and Applications of Computational Immunology Victor Greiff,Gur Yaari,Johannes

Textor,Benny Chain,2020-01-30 **Foundations and Frontiers in Computer, Communication and Electrical**

Engineering Aritra Acharyya,2016-05-05 The 3rd International Conference on Foundations and Frontiers in Computer Communication and Electrical Engineering is a notable event which brings together academia researchers engineers and students in the fields of Electronics and Communication Computer and Electrical Engineering making the conference a perfect platform to share experience f **Advances in Energy, Environment and Materials Science** Yeping

Wang,Jianhua Zhao,2018-11-22 The International Conference on Energy Environment and Materials Science EEMS2015 was held in Guangzhou China from August 25 26 2015 EEMS2015 provided a platform for academic scientists researchers and scholars to exchange and share their experiences and research results within the fields of energy science energy technology environmental science environmental engineering motivation automation and electrical engineering material science and engineering the discovery or development of energy and environment and materials science **Computer Vision - ECCV**

2024 Aleš Leonardis,Elisa Ricci,Stefan Roth,Olga Russakovsky,Torsten Sattler,Gül Varol,2024-10-25 The multi volume set of LNCS books with volume numbers 15059 up to 15147 constitutes the refereed proceedings of the 18th European Conference on Computer Vision ECCV 2024 held in Milan Italy during September 29 October 4 2024 The 2387 papers presented in these proceedings were carefully reviewed and selected from a total of 8585 submissions They deal with topics such as computer vision machine learning deep neural networks reinforcement learning object recognition image classification image processing object detection semantic segmentation human pose estimation 3d reconstruction stereo vision computational photography neural networks image coding image reconstruction object recognition motion estimation **International**

Handbook of AI Law Matthias Artzt,Oliver Belitz,Simon Hembt,Nils Löfing,2024-12-03 In recent years the field of Artificial Intelligence AI has seen remarkable advances revolutionizing how we live work and interact with technology As AI systems grow increasingly sophisticated and autonomous they raise new and challenging legal questions particularly regarding AI

specific risks associated with automated systems This indispensable handbook written in clear language by international experts from all over the world sheds light on the complex relationship between AI and the law covering both existing laws and emerging AI specific legal regulations Beginning with a comprehensive and insightful technical analysis of how AI works subsequent chapters cover a wide array of legal fields relevant to AI technology focusing on the legal framework in the EU including the following topics the EU AI Act AI Specific Liability and Product Safety Data Protection Data Law Intellectual Property Contracting Antitrust Criminal Law Cybersecurity Employment Law and Legal Tech The book concludes with country reports on the legal and regulatory environment in the United Kingdom the United States China and Japan contrasting them with the EU legal framework Each chapter offers practical advice for implementing legal principles making the handbook a valuable resource for real world applications It is an essential guide for practitioners policymakers academics and others seeking a deep understanding of the complex legal challenges posed by AI use The handbook aids in responsible and trustworthy AI development and use by guiding decision making reducing risks and protecting the rights and well being of individuals and society

Multimedia Security Kaiser J. Giri,Shabir Ahmad Parah,Rumaan Bashir,Khan Muhammad,2021-01-11 This book is a collection of outstanding content written by experts working in the field of multimedia security It provides an insight about various techniques used in multimedia security and identifies its progress in both technological and algorithmic perspectives In the contemporary world digitization offers an effective mechanism to process preserve and transfer all types of information The incredible progresses in computing and communication technologies augmented by economic feasibility have revolutionized the world The availability of efficient algorithms together with inexpensive digital recording and storage peripherals have created a multimedia era bringing conveniences to people in sharing the digital data that includes images audio and video The ever increasing pace at which the multimedia and communication technology is growing has also made it possible to combine replicate and distribute the content faster and easier thereby empowering mankind by having a wealth of information at their disposal However security of multimedia is giving tough time to the research community around the globe due to ever increasing and efficient attacks carried out on multimedia data by intruders eves droppers and hackers Further duplication unauthorized use and mal distribution of digital content have become a serious challenge as it leads to copyright violation and is considered to be the principal reason that refrains the information providers in freely sharing their proprietary digital content The book is useful for students researchers and professionals to advance their study

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