

Super Resolution

Generates a single higher-resolution image by merging all the frames with subpixel motion estimation.

Details

The *Super Resolution* filter applies a sub-pixel registration to all the frames of a video, then merges the motion corrected frames together, along with a deblurring filtering. If a *Selection* is set, then the selected area will be optimized.

Parameters

- **Zoom**
Zoom factor for the output image.
- **Iterations**
Number of deblurring steps.
- **Selection**
Region of the image to optimize.

References

- Hiroyuki Takeda, Peyman Milanfar, Matan Protter and Michael Elad, "Super-resolution without explicit subpixel motion estimation", in IEEE Transactions on Image Processing, Vol. 18, No. 9, pp. 1958–1975, September 2009. <http://dx.doi.org/10.1109/TIP.2009.2023703>

Chapter 20 Super Resolution Video Analysis For Forensic

**Anand B. Deshpande, Vania V.
Estrela, Asiya Khan**



Chapter 20 Super Resolution Video Analysis For Forensic:

Advances in Digital Forensics III Philip Craiger, Sujeet Shenoi, 2007-11-14 In 2006 the Federal Bureau of Investigation FBI processed more than two petabytes of digital evidence in 2007 the volume of digital evidence processed will exceed four petabytes Electronic devices are becoming smaller and more diverse memory capacities are increasing according to Moore's Law distributed networks are growing massively in size and scale As society embraces new technologies and applications with gusto digital information will become even more pervasive Digital investigations already involve searching for the proverbial needle in the haystack In five years possibly sooner investigators will have to find the one needle in unimaginably large stacks of needles How will the FBI approach digital investigations of the future How will state and local law enforcement agents cope Digital forensics the scientific discipline focused on the acquisition preservation examination analysis and presentation of digital evidence will have to provide solutions The digital forensics research community must initiate serious efforts to develop the next generation of algorithms procedures and tools that will be desperately needed This book *Advances in Digital Forensics III* is the third volume in the annual series produced by the IFIP Working Group 11.9 on Digital Forensics an international community of scientists engineers and practitioners dedicated to advancing the state of the art of research and practice in the emerging discipline of digital forensics The book presents original research results and innovative applications in digital forensics

Handbook of Digital Forensics of Multimedia Data and Devices Anthony T. S. Ho, Shujun Li, 2015-07-24 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 of the 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 Forensic Gait Analysis Haydn D. Kelly, 2020-05-11

Forensic Gait Analysis examines the intersection of podiatric medicine with forensic investigation that which links or dissociates a suspect to a crime through analysis of their gait that is their movement how an individual walks runs and bends This book provides a concise explanation of how an individual's gait and biomechanics are forensically analysed and compared using video imagery in the process of human identification and investigations Along with the presentation and delivery of material with case law references illustrating the use of expert evidence Gait analysis is a long standing component of the diagnostic and therapeutic tool set of medical disciplines although the knowledge goes back much further The area has also captured the interest of technology engineers and others as the development and use of forensic gait analysis as an investigative and evidential device continues to widen Features Presents succinct knowledge on forensic gait analysis 100 illustrations with photographs and diagrams over 850 references Considers the technical and scientific basis of the field including the history of gait musculoskeletal neurology emotions and gait forensic statistics photogrammetry and recognises the trajectory of development into IT and software solutions Coverage on CCTV imagery and other video footage for use in the process of identification and investigations Details are provided on report writing and giving expert evidence in the legal systems Contributors across all subject areas This definitive fully referenced text on Forensic Gait Analysis is a welcome publication for healthcare professionals lawyers counsel investigators forensic practitioners and students wishing to know more on the subject and this growing domain **Applications of Machine Learning in Big-Data Analytics and Cloud Computing** Subhendu Kumar Pani, Somanath Tripathy, George Jandieri, Sumit Kundu, Talal Ashraf Butt, 2022-09-01

Cloud Computing and Big Data technologies have become the new descriptors of the digital age The global amount of digital data has increased more than nine times in volume in just five years and by 2030 its volume may reach a staggering 65 trillion gigabytes This explosion of data has led to opportunities and transformation in various areas such as healthcare enterprises industrial manufacturing and transportation New Cloud Computing and Big Data tools endow researchers and analysts with novel techniques and opportunities to collect manage and analyze the vast quantities of data In Cloud and Big Data Analytics the two areas of Swarm Intelligence and Deep Learning are a developing type of Machine Learning techniques that show enormous potential for solving complex business problems Deep Learning enables computers to analyze large quantities of unstructured and binary data and to deduce relationships without requiring specific models or programming instructions This book introduces the state of the art trends and advances in the use of Machine Learning in Cloud and Big Data Analytics The book will serve as a reference for Data Scientists systems architects developers new researchers and graduate level students in Computer and Data science The book will describe the concepts necessary to understand current Machine Learning issues challenges and possible solutions as well as upcoming trends in Big Data Analytics Selfie Biometrics Ajita Rattani, Reza Derakhshani, Arun Ross, 2019-09-21 This book highlights the field of selfie

biometrics providing a clear overview and presenting recent advances and challenges It also discusses numerous selfie authentication techniques on mobile devices Biometric authentication using mobile devices is becoming a convenient and important means of verifying identity for secured access and services such as telebanking and electronic transactions In this context face and ocular biometrics in the visible spectrum has gained increased attention from the research community However device mobility and operation in uncontrolled environments mean that facial and ocular images captured with mobile devices exhibit substantial degradation as a result of adverse lighting conditions specular reflections and motion and defocus blur In addition low spatial resolution and the small sensor of front facing mobile cameras further degrade the sample quality reducing the recognition accuracy of face and ocular recognition technology when integrated into smartphones Presenting the state of the art in mobile biometric research and technology and offering an overview of the potential problems in real time integration of biometrics in mobile devices this book is a valuable resource for final year undergraduate students postgraduate students engineers researchers and academics in various fields of computer engineering

Cumulated Index Medicus, 2000 **Advanced Fingerprint Recognition: From 3D Shape to Ridge Detail** Feng Liu, Qijun Zhao, David Zhang, 2020-05-22 Fingerprints are among the most widely used biometric modalities and have been successfully applied in various scenarios For example in forensics fingerprints serve as important legal evidence and in civilian applications fingerprints are used for access and attendance control as well as other identity services Thanks to advances in three dimensional 3D and high resolution imaging technology it is now feasible to capture 3D or high resolution fingerprints to provide extra information and go beyond the traditional features such as global ridge patterns and local ridge singularities used in conventional fingerprint recognition tasks This book presents the state of the art in the acquisition and analysis of 3D and high resolution fingerprints Based on the authors research this book focuses on advanced fingerprint recognition using 3D fingerprint features i e finger shape level 0 features or high resolution fingerprint features i e ridge detail level 3 features It is a valuable resource for researchers professionals and graduate students working in the field of computer vision pattern recognition security biometrics practice as well as interdisciplinary researchers **Aiding Forensic Investigation Through Deep Learning and Machine Learning Frameworks** Raj, Alex Noel Joseph, Mahesh, Vijayalakshmi G. V., Nerisson, Ruban, Yu, Ang, Gentry, Jennifer, 2022-06-24 It is crucial that forensic science meets challenges such as identifying hidden patterns in data validating results for accuracy and understanding varying criminal activities in order to be authoritative so as to hold up justice and public safety Artificial intelligence with its potential subsets of machine learning and deep learning has the potential to transform the domain of forensic science by handling diverse data recognizing patterns and analyzing interpreting and presenting results Machine Learning and deep learning frameworks with developed mathematical and computational tools facilitate the investigators to provide reliable results Further study on the potential uses of these technologies is required to better understand their benefits Aiding Forensic Investigation Through

Deep Learning and Machine Learning Frameworks provides an outline of deep learning and machine learning frameworks and methods for use in forensic science to produce accurate and reliable results to aid investigation processes The book also considers the challenges developments advancements and emerging approaches of deep learning and machine learning Covering key topics such as biometrics augmented reality and fraud investigation this reference work is crucial for forensic scientists law enforcement computer scientists researchers scholars academicians practitioners instructors and students

Index Medicus ,2001 *The Image Processing Handbook* John C. Russ,F. Brent Neal,2018-09-03 Consistently rated as the best overall introduction to computer based image processing The Image Processing Handbook covers two dimensional 2D and three dimensional 3D imaging techniques image printing and storage methods image processing algorithms image and feature measurement quantitative image measurement analysis and more Incorporating image processing and analysis examples at all scales from nano to astro this Seventh Edition Features a greater range of computationally intensive algorithms than previous versions Provides better organization more quantitative results and new material on recent developments Includes completely rewritten chapters on 3D imaging and a thoroughly revamped chapter on statistical analysis Contains more than 1700 references to theory methods and applications in a wide variety of disciplines Presents 500 entirely new figures and images with more than two thirds appearing in color The Image Processing Handbook Seventh Edition delivers an accessible and up to date treatment of image processing offering broad coverage and comparison of algorithms approaches and outcomes **Intelligent Designs, Innovations and Sustainability in Agriculture 4.0** Anand B. Deshpande,Vania V. Estrela,Asiya Khan,2025-04-30 Feeding an expanding population in light of environmental preservation and keeping production lean is a considerable challenge Sustainable and Precise Agriculture relying on Industry 4 0 Agri4 points toward creating strategic collaborations innovations and alternative approaches to old concerns and incorporating solutions from other expertise domains It requires intensive efforts from governments investors investigators and developers These initiatives address many problems while connecting more agrarians and their communities Agri4 entails key agribusiness developments viz precision agriculture biotech IoT and Big Data to augment efficiency in dealing with growing population and climate change Agri4 is likely to yield improvements such as sustainable practices education environmental residue reduction seed improvement and traditional agricultural knowledge usage among others It promotes sustainable food production community development and scientific literacy by fostering effective natural resource administration This book explores the transformative impact of Agriculture 4 0 guiding readers through the integration of digital technologies and sustainable practices into modern farming It discusses how innovations like AI and the IoT are revolutionizing agriculture enhancing connectivity precision and ecological awareness The intended readers of the book include agricultural professionals researchers tech innovators policymakers and students It caters to those interested in the convergence of modern technology and farming particularly in advancing sustainable practices and understanding the future

of agriculture in the digital age **Principles of Forensic Engineering Applied to Industrial Accidents** Luca Fiorentini, Luca Marmo, 2018-11-21 An introductory text on the investigation of industrial accidents Forensic engineering should be seen as a rigorous approach to the discovery of root causes that lead to an accident or near miss The approach should be suitable to identify both the immediate causes as well as the underlying factors that affected amplified or modified the events in terms of consequences evolution dynamics etc as well as the contribution of an eventual human error This book is a concise and introductory volume to the forensic engineering discipline which helps the reader to recognize the link among those important very specialized aspects of the same problem in the global strategy of learning from accidents or near misses The reader will benefit from a single point of access to this very large technical literature that can be only correctly understood with the right terms definitions and links in mind Keywords Presents simple real cases as well as giving an overview of more complex ones each of them investigated within the same framework Gives the readers the bibliography to access more in depth specific aspects Offers an overview of the most commonly used methodologies and techniques to investigate accidents including the evidence that should be collected to define the cause dynamics and responsibilities of an industrial accident as well as the most appropriate methods to collect and preserve the evidence through an appropriate chain of security Principles of Forensic Engineering Applied to Industrial Accidents is essential reading for researchers and practitioners in forensic engineering as well as graduate students in forensic engineering departments and other professionals **Electron Beam Microanalysis , Multi-Camera Networks** Hamid Aghajan, Andrea Cavallaro, 2009-04-25 The first book by the leading experts on this rapidly developing field with applications to security smart homes multimedia and environmental monitoring Comprehensive coverage of fundamentals algorithms design methodologies system implementation issues architectures and applications Presents in detail the latest developments in multi camera calibration active and heterogeneous camera networks multi camera object and event detection tracking coding smart camera architecture and middleware This book is the definitive reference in multi camera networks It gives clear guidance on the conceptual and implementation issues involved in the design and operation of multi camera networks as well as presenting the state of the art in hardware algorithms and system development The book is broad in scope covering smart camera architectures embedded processing sensor fusion and middleware calibration and topology network based detection and tracking and applications in distributed and collaborative methods in camera networks This book will be an ideal reference for university researchers R D engineers computer engineers and graduate students working in signal and video processing computer vision and sensor networks Hamid Aghajan is a Professor of Electrical Engineering consulting at Stanford University His research is on multi camera networks for smart environments with application to smart homes assisted living and well being meeting rooms and avatar based communication and social interactions He is Editor in Chief of Journal of Ambient Intelligence and Smart Environments and was general chair of ACM IEEE ICDSC 2008 Andrea Cavallaro is Reader

Associate Professor at Queen Mary University of London QMUL His research is on target tracking and audiovisual content analysis for advanced surveillance and multi sensor systems He serves as Associate Editor of the IEEE Signal Processing Magazine and the IEEE Trans on Multimedia and has been general chair of IEEE AVSS 2007 ACM IEEE ICDSC 2009 and BMVC 2009 The first book by the leading experts on this rapidly developing field with applications to security smart homes multimedia and environmental monitoring Comprehensive coverage of fundamentals algorithms design methodologies system implementation issues architectures and applications Presents in detail the latest developments in multi camera calibration active and heterogeneous camera networks multi camera object and event detection tracking coding smart camera architecture and middleware

Forensic Psychology Kenneth B. Cairns, 2023-07-19 Forensic Psychology An Inside Perspective on Criminal Thinking and Behavior offers undergraduates a concise accessible introduction to the field of forensic psychology With more than 20 years of experience as a forensic psychologist working with incarcerated people Dr Kenneth B Cairns provides a balance between not just forensics and psychology but also between theory and practical application Grounded in the cognitive behavioral approach and evidence based practices and research this text will focus on often overlooked areas such as the experiences of victims and first responders and the psychopathy of individuals convicted of mass murder spree killing and serial killing

Algorithmic Aspects of the Simulation and Control of Computer Generated Human Anatomy Models Eftychios D. Sifakis, 2007

Electron Beam Microanalysis Donald Robert Beaman, J. A. Isasi, 1972

Image-Based Evidence in International Criminal Prosecutions Jonathan W. Hak, 2024 In this pioneering book Jonathan W Hak offers insightful commentary on the authentication and interpretation of image based evidence setting out how it can be effectively used in international criminal prosecutions

Photographic Abstracts , The Art and Science of Facelift Surgery - E-BOOK Joe Niamtu, 2024-01-10 Improved surgical techniques and

increasing patient expectations have transformed the field of cosmetic facial surgery and The Art and Science of Facelift Surgery 2nd Edition brings you up to speed with today s best and latest procedures This highly practical resource features a superbly illustrated print reference with step by step procedures accompanied by surgical videos of each technique Comprehensive easy to follow instruction from internationally recognized expert Dr Joe Niamtu III with chapters by other internationally recognized colleagues helps you achieve optimal outcomes on frequently requested procedures Provides authoritative advice technical tips and personal approaches from Dr Niamtu a key opinion leader in cosmetic surgery with contributions from other leading facelift surgeons Covers the contemporary procedures that today s patients are requesting including deep plane facelifts submandibular gland resection male facelifts minimally invasive facelifts chin implants revision facelifts and many more Includes hundreds of new clinical photos new video content and updated procedural guidance tips and tricks throughout Contains an abundance of full color photographs that illustrate surgical steps and before and after outcomes as well as easy to follow instruction for each procedure Features high quality videos such as diagnosis patient

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Table of Contents Chapter 20 Super Resolution Video Analysis For Forensic

1. Understanding the eBook Chapter 20 Super Resolution Video Analysis For Forensic
 - The Rise of Digital Reading Chapter 20 Super Resolution Video Analysis For Forensic
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 20 Super Resolution Video Analysis For Forensic
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 20 Super Resolution Video Analysis For Forensic
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 20 Super Resolution Video Analysis For Forensic
 - Personalized Recommendations
 - Chapter 20 Super Resolution Video Analysis For Forensic User Reviews and Ratings
 - Chapter 20 Super Resolution Video Analysis For Forensic and Bestseller Lists

5. Accessing Chapter 20 Super Resolution Video Analysis For Forensic Free and Paid eBooks
 - Chapter 20 Super Resolution Video Analysis For Forensic Public Domain eBooks
 - Chapter 20 Super Resolution Video Analysis For Forensic eBook Subscription Services
 - Chapter 20 Super Resolution Video Analysis For Forensic Budget-Friendly Options
6. Navigating Chapter 20 Super Resolution Video Analysis For Forensic eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 20 Super Resolution Video Analysis For Forensic Compatibility with Devices
 - Chapter 20 Super Resolution Video Analysis For Forensic Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 20 Super Resolution Video Analysis For Forensic
 - Highlighting and Note-Taking Chapter 20 Super Resolution Video Analysis For Forensic
 - Interactive Elements Chapter 20 Super Resolution Video Analysis For Forensic
8. Staying Engaged with Chapter 20 Super Resolution Video Analysis For Forensic
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 20 Super Resolution Video Analysis For Forensic
9. Balancing eBooks and Physical Books Chapter 20 Super Resolution Video Analysis For Forensic
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 20 Super Resolution Video Analysis For Forensic
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 20 Super Resolution Video Analysis For Forensic
 - Setting Reading Goals Chapter 20 Super Resolution Video Analysis For Forensic
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 20 Super Resolution Video Analysis For Forensic
 - Fact-Checking eBook Content of Chapter 20 Super Resolution Video Analysis For Forensic
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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