

Fisheye Lens Designs And Their Relative Performance

Joseph J. M. Braat



Fisheye Lens Designs And Their Relative Performance:

Effective Surveillance for Homeland Security Francesco Flammini,Roberto Setola,Giorgio Franceschetti,2013-06-13
Effective Surveillance for Homeland Security Balancing Technology and Social Issues provides a comprehensive survey of state of the art methods and tools for the surveillance and protection of citizens and critical infrastructures against natural and deliberate threats Focusing on current technological challenges involving multi disciplinary problem analysis and systems engineering approaches it provides an overview of the most relevant aspects of surveillance systems in the framework of homeland security Addressing both advanced surveillance technologies and the related socio ethical issues the book consists of 21 chapters written by international experts from the various sectors of homeland security Part I Surveillance and Society focuses on the societal dimension of surveillance stressing the importance of societal acceptability as a precondition to any surveillance system Part II Physical and Cyber Surveillance presents advanced technologies for surveillance It considers developing technologies that are part of a framework whose aim is to move from a simple collection and storage of information toward proactive systems that are able to fuse several information sources to detect relevant events in their early incipient phase Part III Technologies for Homeland Security considers relevant applications of surveillance systems in the framework of homeland security It presents real world case studies of how innovative technologies can be used to effectively improve the security of sensitive areas without violating the rights of the people involved Examining cutting edge research topics the book provides you with a comprehensive understanding of the technological legislative organizational and management issues related to surveillance With a specific focus on privacy it presents innovative solutions to many of the issues that remain in the quest to balance security with the preservation of privacy that society demands

Image Analysis Josef Bigun,Thomas Gustavsson,2003-08-02 This book constitutes the refereed proceedings of the 13th Scandinavian Conference on Image Analysis SCIA 2003 held in Halmstad Sweden in June July 2003 The 148 revised full papers presented together with 6 invited contributions were carefully reviewed and selected for presentation The papers are organized in topical sections on feature extraction depth and surface shape analysis coding and representation motion analysis medical image processing color analysis texture analysis indexing and categorization and segmentation and spatial grouping

Smartphones from an Applied Research Perspective Nawaz Mohamudally,2017-11-02
Smartphones from an Applied Research Perspective highlights latest advancements of research undertaken in multidisciplinary fields where the smartphone plays a central role Smartphone is synonymous to innovation in today s society Very few visionaries predicted its social cultural technological and economic impacts although the usage of smartphone is almost pervasive and transcendental This book is meant for researchers and postgraduate students looking forward for hot topics for their final year projects doctoral or even postdoctoral studies Practitioners too will find food for thought and will surely be amazed by the broadness of the topics presented

Image Analysis Josef Bigün,Thomas Gustavsson,2003-06-25

The excellently received call for papers of the 13th Scandinavian Conference on Image Analysis June 29 July 2 SCIA 2003 resulted in the selected articles of this proceedings Additionally the volume also contains invited contributions from Ivar Austvoll Stavanger University College NO Lars B a ath Halmstad University SE Ewert Bengtsson Uppsala University SE Rasmus Larsen Technical University of Denmark DK Jussi Parkkinen University of Joensuu FI Pietro Perona California Institute of Technology US which brings the total number of articles to 152 The theme of the papers are dominated by the categories Feature extraction Depth and surface Medical image processing Shape analysis Segmentation and spatial grouping Coding and representation Motion analysis Texture analysis Color analysis Indexing and categorization which also represent the topical groupings of this book The particularly strong response to the feature extraction depth and surface and medical image processing themes makes us believe that these areas are currently expansive partly because of the rich set of problems which remain to be addressed

Smart Mini-Cameras Tigran V. Galstian, 2013-09-24 Achieve the Best Camera Design Up to Date Information on MCMs Miniature camera modules MCMs such as webcams have rapidly become ubiquitous in our day to day devices from mobile phones to interactive TV systems MCMs or smart cameras can zoom adjust their frame rate automatically with illumination change focus at different distances compensate for hand shake and transform captured images With contributions from academics and field engineers *Smart Mini Cameras* discusses the structure operation principles applications and future trends of miniature mobile cameras It compares this technology with traditional digital still cameras and explains the specific requirements of MCM components imposed by the size or type of application in terms of optical design image sensor and functionalities The book describes the implementation of several active functionalities including liquid crystal auto focus AF and optical image stabilization OIS It also explores how new technologies such as the curved detector and transforming optics are stimulating novel trends including a miniature panoramic lens on mobile phones By providing you with an understanding of the components and performance tradeoffs of MCMs this book will help you achieve the best camera design It also answers frequently asked questions such as the importance of the number of megapixels in a mobile phone camera and the value of AF and OIS features

Current Developments in Lens Design and Optical Engineering VIII Pantazis Mouroulis, Warren J. Smith, R. Barry Johnson, 2007 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature

Handbook of Optical Systems, Volume 4 Herbert Gross, 2005 The state of the art full colored handbook gives a comprehensive introduction to the principles and the practice of calculation layout and understanding of optical systems and lens design Written by reputed industrial experts in the field this text introduces the user to the basic properties of optical systems aberration theory classification and characterization of systems advanced simulation models measuring of system

quality and manufacturing issues In this Volume Volume 4 presents a survey of optical systems based on the principles of image formation optical system setup and quality control which are covered by the first three volumes Starting with the human eye the chapters discuss all systems from telescopes and binoculars to projection spectroscopic and illumination systems All these systems are characterized and described using coherent schemes and criteria to provide readers with a thorough background for their own developments Other Volumes Volume 1 Fundamentals of Technical Optics Volume 2 Physical Image Formation Volume 3 Aberration Theory and Correction of Optical Systems Volume 5 Advanced Physical Optics

Free-space Laser Communications, 2005 Design and Engineering of Optical Systems Joseph J. M. Braat, 1996

Optical Systems Engineering Keith Kasunic, 2011-06-05 A practical guide to optical system design and development Optical Systems Engineering emphasizes first order system level estimates of optical performance Building on the basic principles of optical design and engineering the book uses numerous practical examples to illustrate the essential real world processes such as requirements analysis feasibility and trade studies subsystem interfaces error budgets requirements flow down and allocation component specifications and vendor selection Filled with detailed diagrams and photographs this is an indispensable resource for anyone involved in developing optical electro optical and infrared systems

Optical Systems Engineering covers Systems engineering Geometrical optics Aberrations and image quality Radiometry Optical sources Detectors and focal plane arrays Optomechanical design *Modern Lens Design* Warren Smith, 2004-10-22 Unlike the first edition which was more a collection of lens designs for use in larger projects the 2nd edition of Modern Lens Design is an optical how to Delving deep into the mechanics of lens design optics legend Warren J Smith reveals time tested methods for designing top quality lenses He deals with lens design software primarily OSLO by far the current market leaders and provides 7 comprehensive worked examples all new to this edition With this book in hand there s no lens an optical engineer can t design

Guardrail Performance and Design Jarvis Dale Michie, Lee R. Calcote, Maurice E. Bronstad, 1971 Barrier installations are warranted or justified only at highway locations where the consequence of an errant vehicle leaving the roadway is judged to be more hazardous than the impact with the barrier installation A six degree of freedom mathematical model was found to be useful in describing dynamic behavior of a vehicle during impact Predictions of vehicle and barrier behavior correlated with results obtained from full scale crash tests Crash conditions simulated with a computer were used to identify and evaluate vehicle static and dynamic as well as barrier parameters Vehicle weight yaw mass moment of inertia and deformation constant were found to be significant

International Optical Design Conference 1998 Leo R. Gardner, Kevin P. Thompson, 1998 A collection of papers from the International Optical Design Conference 1998 It is divided into the following sections optical design theory I joint DOMO IODC session I joint session with OFT interferometer design and testing and scanning systems Journal of the Optical Society of America Optical Society of America, 1981

Photographic Lenses Carroll Bernard Neblette, Allen E. Murray, 1973 CHI 2005 Wendy Kellogg, Shumin

Zhai,Carolyn Gale,Gerrit C. Veer,2005 **Optical Engineering** ,1989 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology Applied Photographic Optics Sidney F. Ray,1988 **The Master Guide to Photography** Michael Langford,1982 Petersen's Photographic Magazine ,1978

Fisheye Lens Designs And Their Relative Performance Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Fisheye Lens Designs And Their Relative Performance**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Fisheye Lens Designs And Their Relative Performance Introduction

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