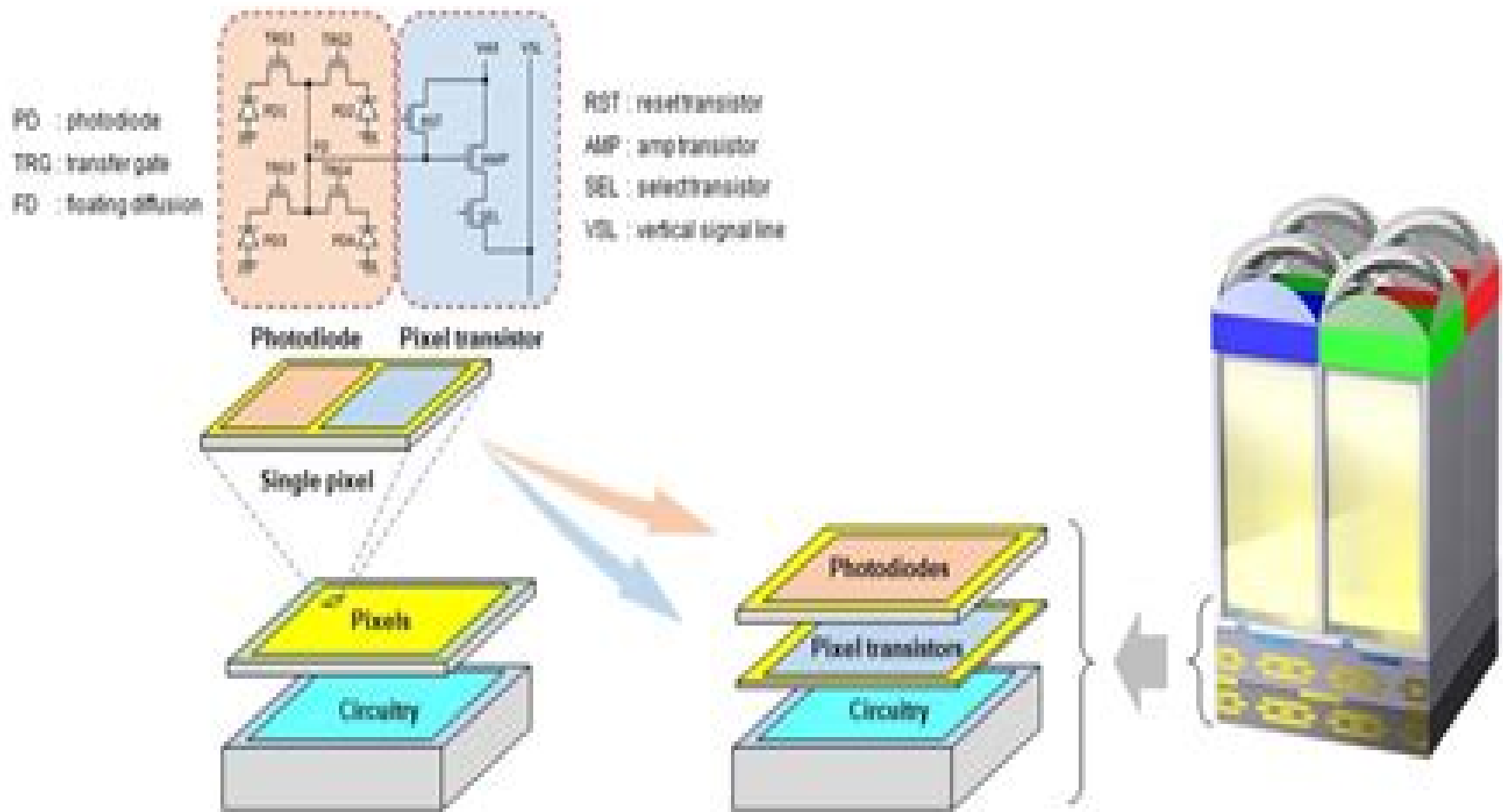


■ Stacked CMOS image sensor architectures



Conventional stacked CMOS image sensor

Stacked CMOS image sensor with
newly developed 2-Layer Transistor
Pixel technology

Cmos Image Sensor Pixel Design And Optimization

Zheng You

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CMOS Imagers Orly Yadid-Pecht, Ralph Etienne-Cummings, 2007-05-08 The idea of writing a book on CMOS imaging has been brewing for several years It was placed on a fast track after we agreed to organize a tutorial on CMOS sensors for the 2004 IEEE International Symposium on Circuits and Systems ISCAS 2004 This tutorial defined the structure of the book but as first time authors editors we had a lot to learn about the logistics of putting together information from multiple sources Needless to say it was a long road between the tutorial and the book and it took more than a few months to complete We hope that you will find our journey worthwhile and the collated information useful The laboratories of the authors are located at many universities distributed around the world Their unifying theme however is the advancement of knowledge for the development of systems for CMOS imaging and image processing We hope that this book will highlight the ideas that have been pioneered by the authors while providing a roadmap for new practitioners in this field to exploit exciting opportunities to integrate imaging and smartness on a single VLSI chip The potential of these smart imaging systems is still unfulfilled Hence there is still plenty of research and development to be done

Image Sensors and Signal Processing for Digital Still Cameras Junichi Nakamura, 2017-12-19 Shrinking pixel sizes along with improvements in image sensors optics and electronics have elevated DSCs to levels of performance that match and have the potential to surpass that of silver halide film cameras Image Sensors and Signal Processing for Digital Still Cameras captures the current state of DSC image acquisition and signal processing technology and takes an all inclusive look at the field from the history of DSCs to future possibilities The first chapter outlines the evolution of DSCs their basic structure and their major application classes The next few chapters discuss high quality optics that meet the requirements of better image sensors the basic functions and performance parameters of image sensors and detailed discussions of both CCD and CMOS image sensors The book then discusses how color theory affects the uses of DSCs presents basic image processing and camera control algorithms and examples of advanced image processing algorithms explores the architecture and required performance of signal processing engines and explains how to evaluate image quality for each component described The book closes with a look at future technologies and the challenges that must be overcome to realize them With contributions from many active DSC experts Image Sensors and Image Processing for Digital Still Cameras offers unparalleled real world coverage and opens wide the door for future innovation

Design Technology for Heterogeneous Embedded Systems Gabriela Nicolescu, Ian O'Connor, Christian Piguet, 2012-02-02 Design technology to address the new and vast problem of heterogeneous embedded systems design while remaining compatible with standard Moore flows i e capable of simultaneously handling both silicon complexity and system complexity represents one of the most important challenges facing the semiconductor industry today and will be for several years to come While the micro electronics industry over the years and with its spectacular and unique evolution has built its own specific design methods to focus mainly on the management of complexity through the

establishment of abstraction levels the emergence of device heterogeneity requires new approaches enabling the satisfactory design of physically heterogeneous embedded systems for the widespread deployment of such systems Heterogeneous Embedded Systems compiled largely from a set of contributions from participants of past editions of the Winter School on Heterogeneous Embedded Systems Design Technology FETCH proposes a necessarily broad and holistic overview of design techniques used to tackle the various facets of heterogeneity in terms of technology and opportunities at the physical level signal representations and different abstraction levels architectures and components based on hardware and software in all the main phases of design modeling validation with multiple models of computation synthesis and optimization It concentrates on the specific issues at the interfaces and is divided into two main parts The first part examines mainly theoretical issues and focuses on the modeling validation and design techniques themselves The second part illustrates the use of these methods in various design contexts at the forefront of new technology and architectural developments

Photon-Counting Image Sensors Eric R. Fossum, Nobukazu Teranishi, Albert Theuwissen, David Stoppa, Edoardo Charbon, 2018-07-06 This book is a printed edition of the Special Issue Photon Counting Image Sensors that was published in Sensors *Ultra Low Noise CMOS Image Sensors* Assim Boukhayma, 2017-11-28 This thesis provides a thorough noise analysis for conventional CIS readout chains while also presenting and discussing a variety of noise reduction techniques that allow the read noise in standard processes to be optimized Two physical implementations featuring sub 0.5 electron RMS are subsequently presented to verify the proposed noise reduction techniques and provide a full characterization of a VGA imager Based on the verified noise calculation the impact of the technology downscaling on the input referred noise is also studied Further the thesis covers THz CMOS image sensors and presents an original design that achieves ultra low noise performance Last but not least it provides a comprehensive review of CMOS image sensors **High Performance CMOS Range Imaging** Andreas Süß, 2016-03-24 This work is dedicated to CMOS based imaging with the emphasis on the noise modeling characterization and optimization in order to contribute to the design of high performance imagers in general and range imagers in particular CMOS is known to be superior to CCD due to its flexibility in terms of integration capabilities but typically has to be enhanced to compete at parameters as for instance noise dynamic range or spectral response This work gathers the widespread theory on noise and extends the theory by a non rigorous but potentially computing efficient algorithm to estimate noise in time sampled systems Advanced Microsystems for Automotive Applications 2005 Jürgen Valldorf, Wolfgang Gessner, 2005-12-19 Since 1995 the annual international forum on Advanced Microsystems for Automotive Applications AMAA has been held in Berlin The event offers a unique opportunity for microsystems component developers system suppliers and car manufacturers to show and to discuss competing technological approaches of microsystems based solutions in vehicles The book accompanying the event has demonstrated to be an efficient instrument for the diffusion of new concepts and technology results The present volume including the papers of the AMAA 2005 gives an overview on the

state of the art and outlines imminent and mid term R D perspectives The 2005 publication reflects as in the past the current state of discussions within industry More than the previous publications the AMAA 2005 goes back to the technological requirements and indispensable developments for fulfilling the market needs The large part of contributions dealing with sensors as well as sensor technologies and data fusion is exemplary for this tendency In this context a paradigm shift can be stated In the past the development focused predominantly on the detection and processing of single parameters originating from single sensors Today the challenge increasingly consists in getting information of complex situations with a series of variables from different sensors and in evaluating this information Smart integrated devices using the information deriving from the various sensor sources will be able to describe and assess a traffic situation or behaviour much faster and more reliable than a human being might be able to do Additional information is available on www.amaa.de

Novel Advances in Microsystems Technologies and Their Applications Laurent A. Francis, Krzysztof Iniewski, 2017-07-28 Microsystems technologies have found their way into an impressive variety of applications from mobile phones computers and displays to smart grids electric cars and space shuttles This multidisciplinary field of research extends the current capabilities of standard integrated circuits in terms of materials and designs and complements them by creating innovative components and smaller systems that require lower power consumption and display better performance Novel Advances in Microsystems Technologies and their Applications delves into the state of the art and the applications of microsystems and microelectronics related technologies Featuring contributions by academic and industrial researchers from around the world this book Examines organic and flexible electronics from polymer solar cell to flexible interconnects for the co integration of micro electromechanical systems MEMS with complementary metal oxide semiconductors CMOS Discusses imaging and display technologies including MEMS technology in reflective displays the fabrication of thin film transistors on glass substrates and new techniques to display and quickly transmit high quality images Explores sensor technologies for sensing electrical currents and temperature monitoring structural health and critical industrial processes and more Covers biomedical microsystems including biosensors point of care devices neural stimulation and recording and ultra low power biomedical systems Written for researchers engineers and graduate students in electrical and biomedical engineering this book reviews groundbreaking technology trends and applications in microelectronics Its coverage of the latest research serves as a source of inspiration for anyone interested in further developing microsystems technologies and creating new applications

Single-Photon Imaging Peter Seitz, Albert J. P. Theuwissen, 2011-08-03 The acquisition and interpretation of images is a central capability in almost all scientific and technological domains In particular the acquisition of electromagnetic radiation in the form of visible light UV infrared X ray etc is of enormous practical importance The ultimate sensitivity in electronic imaging is the detection of individual photons With this book the first comprehensive review of all aspects of single photon electronic imaging has been created Topics include theoretical basics semiconductor fabrication single photon detection

principles imager design and applications of different spectral domains Today the solid state fabrication capabilities for several types of image sensors has advanced to a point where uncooled single photon electronic imaging will soon become a consumer product This book is giving a specialist s view from different domains to the forthcoming single photon imaging revolution The various aspects of single photon imaging are treated by internationally renowned leading scientists and technologists who have all pioneered their respective fields *Algorithm-Architecture Matching for Signal and Image Processing* Guy Gogniat,Dragomir Milojevic,Adam Morawiec,Ahmet Erdogan,2010-10-20 Advances in signal and image processing together with increasing computing power are bringing mobile technology closer to applications in a variety of domains like automotive health telecommunication multimedia entertainment and many others The development of these leading applications involving a large diversity of algorithms e g signal image video 3D communication cryptography is classically divided into three consecutive steps a theoretical study of the algorithms a study of the target architecture and finally the implementation Such a linear design flow is reaching its limits due to intense pressure on design cycle and strict performance constraints The approach called Algorithm Architecture Matching aims to leverage design flows with a simultaneous study of both algorithmic and architectural issues taking into account multiple design constraints as well as algorithm and architecture optimizations that couldn t be achieved otherwise if considered separately Introducing new design methodologies is mandatory when facing the new emerging applications as for example advanced mobile communication or graphics using sub micron manufacturing technologies or 3D Integrated Circuits This diversity forms a driving force for the future evolutions of embedded system designs methodologies The main expectations from system designers point of view are related to methods tools and architectures supporting application complexity and design cycle reduction Advanced optimizations are essential to meet design constraints and to enable a wide acceptance of these new technologies *Algorithm Architecture Matching for Signal and Image Processing* presents a collection of selected contributions from both industry and academia addressing different aspects of Algorithm Architecture Matching approach ranging from sensors to architectures design The scope of this book reflects the diversity of potential algorithms includingsignal communication image video 3D Graphics implemented onto various architectures from FPGA to multiprocessor systems Several synthesis and resource management techniques leveraging design optimizations are also described and applied to numerous algorithms *Algorithm Architecture Matching for Signal and Image Processing* should be on each designer s and EDA tool developer s shelf as well as on those with an interest in digital system design optimizations dealing with advanced algorithms *High Performance Silicon Imaging* Daniel Durini,2019-10-19 *High Performance Silicon Imaging Fundamentals and Applications of CMOS and CCD Sensors Second Edition* covers the fundamentals of silicon image sensors addressing existing performance issues and current and emerging solutions Silicon imaging is a fast growing area of the semiconductor industry Its use in cell phone cameras is already well established with emerging applications including

web security automotive and digital cinema cameras The book has been revised to reflect the latest state of the art developments in the field including 3D imaging advances in achieving lower signal noise and new applications for consumer markets The fundamentals section has also been expanded to include a chapter on the characterization and testing of CMOS and CCD sensors that is crucial to the success of new applications This book is an excellent resource for both academics and engineers working in the optics photonics semiconductor and electronics industries Covers the fundamentals of silicon based image sensors and technical advances focusing on performance issues Looks at image sensors in applications such as mobile phones scientific imaging and TV broadcasting and in automotive consumer and biomedical applications Addresses the theory behind 3D imaging and 3D sensor development including challenges and opportunities Springer Handbook of Semiconductor Devices Massimo Rudan, Rossella Brunetti, Susanna Reggiani, 2022-11-10 This Springer Handbook comprehensively covers the topic of semiconductor devices embracing all aspects from theoretical background to fabrication modeling and applications Nearly 100 leading scientists from industry and academia were selected to write the handbook's chapters which were conceived for professionals and practitioners material scientists physicists and electrical engineers working at universities industrial R D and manufacturers Starting from the description of the relevant technological aspects and fabrication steps the handbook proceeds with a section fully devoted to the main conventional semiconductor devices like e g bipolar transistors and MOS capacitors and transistors used in the production of the standard integrated circuits and the corresponding physical models In the subsequent chapters the scaling issues of the semiconductor device technology are addressed followed by the description of novel concept based semiconductor devices The last section illustrates the numerical simulation methods ranging from the fabrication processes to the device performances Each chapter is self contained and refers to related topics treated in other chapters when necessary so that the reader interested in a specific subject can easily identify a personal reading path through the vast contents of the handbook **Proceedings of IEEE Sensors ...**, 2004 Electronics for Sensors Giuseppe Ferri, Gianluca Barile, Alfiero Leoni, 2021-08-16 The aim of this Special Issue is to explore new advanced solutions in electronic systems and interfaces to be employed in sensors describing best practices implementations and applications The selected papers in particular concern photomultiplier tubes PMTs and silicon photomultipliers SiPMs interfaces and applications techniques for monitoring radiation levels electronics for biomedical applications design and applications of time to digital converters interfaces for image sensors and general purpose theory and topologies for electronic interfaces *Circuits at the Nanoscale* Krzysztof Iniewski, 2018-10-08 Circuits for Emerging Technologies Beyond CMOS New exciting opportunities are abounding in the field of body area networks wireless communications data networking and optical imaging In response to these developments top notch international experts in industry and academia present Circuits at the Nanoscale Communications Imaging and Sensing This volume unique in both its scope and its focus addresses the state of the art in integrated circuit design in the context of emerging systems A must

for anyone serious about circuit design for future technologies this book discusses emerging materials that can take system performance beyond standard CMOS These include Silicon on Insulator SOI Silicon Germanium SiGe and Indium Phosphide InP Three dimensional CMOS integration and co integration with Microelectromechanical MEMS technology and radiation sensors are described as well Topics in the book are divided into comprehensive sections on emerging design techniques mixed signal CMOS circuits circuits for communications and circuits for imaging and sensing Dr Krzysztof Iniewski is a director at CMOS Emerging Technologies Inc a consulting company in Vancouver British Columbia His current research interests are in VLSI circuits for medical applications He has published over 100 research papers in international journals and conferences and he holds 18 international patents granted in the United States Canada France Germany and Japan In this volume he has assembled the contributions of over 60 world renowned experts who are at the top of their field in the world of circuit design advancing the bank of knowledge for all who work in this exciting and burgeoning area *Smart Cameras*

Ahmed Nabil Belbachir, 2009-10-20 A smart camera is an integrated machine vision system which in addition to image capture circuitry includes a processor which can extract information from images without need for an external processing unit and interface devices used to make results available to other devices This book provides content on smart cameras for an interdisciplinary audience of professionals and students in embedded systems image processing and camera technology It serves as a self contained single source reference for material otherwise found only in sources such as conference proceedings journal articles or product data sheets Coverage includes the 50 year chronology of smart cameras their technical evolution the state of the art and numerous applications such as surveillance and monitoring robotics and transportation **Handbook of Digital Imaging** Michael Kriss, 2015-02-16 A comprehensive and practical analysis and overview of the imaging chain through acquisition processing and display The Handbook of Digital Imaging provides a coherent overview of the imaging science amalgam focusing on the capture storage and display of images The volumes are arranged thematically to provide a seamless analysis of the imaging chain from source image acquisition to destination image print display The coverage is planned to have a very practical orientation to provide a comprehensive source of information for practicing engineers designing and developing modern digital imaging systems The content will be drawn from all aspects of digital imaging including optics sensors quality control colour encoding and decoding compression projection and display Contains approximately 50 highly illustrated articles printed in full colour throughout Over 50 Contributors from Europe US and Asia from academia and industry The 3 volumes are organized thematically for enhanced usability Volume 1 Image Capture and Storage Volume 2 Image Display and Reproduction Hardcopy Technology Halftoning and Physical Evaluation Models for Halftone Reproduction Volume 3 Imaging System Applications Media Imaging Remote Imaging Medical and Forensic Imaging 3 Volumes www.handbookofdigitalimaging.com **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

Photodiodes Ilgu Yun, 2012-12-19 This book represents recent progress and development of the photodiodes including the fundamental reviews and the specific applications developed by the authors themselves The key idea of this book is that it allows authors to deal with a wide range of backgrounds and research progresses in photodiode related areas With respect to the original collection of the book chapters this book contains several improvements and new problems and related solutions are also discussed in the areas from fundamental physics and design to device and circuit applications The book is intended for graduate students engineers and researchers who are especially interested in the area of optoelectronic device applications including photodiodes solar cells CMOS image sensors Optoelectronic Integrated Circuits etc

Space Microsystems and Micro/Nano Satellites Zheng You, 2017-11-22 Space Microsystems and Micro Nano Satellites covers the various reasoning and diverse applications of small satellites in both technical and regulatory aspects also exploring the technical and operational innovations that are being introduced in the field The Space Microsystem developed by the author is systematically introduced in this book providing information on such topics as MEMS micro magnetometers MIMUs Micro inertia measurement unit micro sun sensors micro star sensors micro propellers micro relays etc The book also examines the new technical standards removal techniques or other methods that might help to address current problems regulatory issues and procedures to ameliorate problems associated with small satellites especially mounting levels of orbital debris and noncompliance with radio frequency and national licensing requirements liabilities and export controls Summarizing the scientific research experiences of the author and his team this book holds a high scientific reference value as it gives readers comprehensive and thorough introductions to the micro nano satellite and space applications of MEMS technology Covers various reasoning and diverse applications for small satellites in both technical and regulatory aspects Represents the first publication that systematically introduces the Space Microsystem developed by the author Examines new technical standards

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