

Pixel November 2014 Paper 1

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Virtual, Augmented and Mixed Reality. Design and Interaction Jessie Y. C. Chen 2020-07-10 The 2 volume-set of LNCS 12190 and 12191 constitutes the refereed proceedings of the 12th International Conference on Virtual, Augmented and Mixed Reality, VAMR 2020, which was due to be held in July 2020 as part of HCI International 2020 in Copenhagen, Denmark. The conference was held virtually due to the COVID-19 pandemic. A total of 1439 papers and 238 posters have been accepted for publication in the HCI 2020 proceedings from a total of 6326 submissions. The 71 papers included in these HCI 2020 proceedings were organized in topical sections as follows: Part I: design and user experience in VAMR; gestures and haptic interaction in VAMR; cognitive, psychological and health aspects in VAMR; robots in VAMR. Part II: VAMR for training, guidance and assistance in industry and business; learning, narrative, storytelling and cultural applications of VAMR; VAMR for health, well-being and medicine.

The Design and Engineering of Curiosity Emily Lakdawalla 2018-03-27 This book describes the most complex machine ever sent to another planet: Curiosity. It is a one-ton robot with two brains, seventeen cameras, six wheels, nuclear power, and a laser beam on its head. No one human understands how all of its systems and instruments work. This essential reference to the Curiosity mission explains the engineering behind every system on the rover, from its rocket-powered jetpack to its radioisotope thermoelectric generator to its fiendishly complex sample handling system. Its lavishly illustrated text explains how all the instruments work -- its cameras, spectrometers, sample-cooking oven, and weather station -- and describes the instruments' abilities and limitations. It tells you how the systems have functioned on Mars, and how scientists and engineers have worked around problems developed on a faraway planet: holey wheels and broken focus lasers. And it explains the grueling mission operations schedule that keeps the rover working day in and day out.

Third International Congress on Information and Communication Technology Xin-She Yang 2018-09-28 The book includes selected high-quality research papers presented at the Third International Congress on Information and Communication Technology held at Brunel University, London on February 27–28, 2018. It discusses emerging topics pertaining to information and communication technology (ICT) for managerial applications, e-governance, e-agriculture, e-education and computing technologies, the Internet of Things (IOT), and e-mining. Written by experts and researchers working on ICT, the book is suitable for new researchers involved in advanced studies.

Systems and Computer Technology Yunfei Chen 2015-09-17 This volume consists of papers presented at the 2014 International Symposium on Systems and Computer Technology (ISSCT 2014, Shanghai, China, 15-17 November 2014). The demand for systems and informatics have been constantly increasing, as more and more computer applications have been built. Great efforts have been made to improve the state of the a

Computational Science and Its Applications - ICCSA 2020 Osvaldo Gervasi 2020-10-02 The seven volumes LNCS 12249-12255 constitute the refereed proceedings of the 20th International Conference on Computational Science and Its Applications, ICCSA 2020, held in Cagliari, Italy, in July 2020. Due to COVID-19 pandemic the conference was organized in an online event. Computational Science is the main pillar of most of the present research, industrial and commercial applications, and plays a unique role in exploiting ICT innovative technologies. The 466 full papers and 32 short papers presented were carefully reviewed and selected from 1450 submissions. Apart from the general track, ICCSA 2020 also include 52 workshops, in various areas of computational sciences, ranging from computational science technologies, to specific areas of computational sciences, such as software engineering, security, machine learning and artificial intelligence, blockchain technologies, and of applications in many fields.

Intelligent Computing and Information and Communication Subhash Bhalla 2018-01-19 The volume presents high quality research papers presented at Second International Conference on Information and Communication Technology for Intelligent Systems (ICICC 2017). The conference was held during 2–4 August 2017, Pune, India and organized communally by Dr. Vishwanath Karad MIT World Peace University, Pune, India at MIT College of Engineering, Pune and supported by All India Council for Technical Education (AICTE) and Council of Scientific and Industrial Research (CSIR). The volume contains research papers focused on ICT for intelligent computation, communications and audio, and video data processing.

Combinations of Intelligent Methods and Applications Ioannis Hatzilygeroudis 2016-01-27 This volume includes extended and revised versions of the papers presented at the 4th Workshop on “Combinations of Intelligent Methods and Applications” (CIMA 2014) which was intended to become a forum for exchanging experience and ideas among researchers and practitioners dealing with combinations of different intelligent methods in Artificial Intelligence. The aim is to create integrated or hybrid methods that benefit from each of their components. Some of the existing presented efforts combine soft computing methods (fuzzy logic, neural networks and genetic algorithms). Another stream of efforts integrates case-based reasoning or machine learning with soft-computing methods. Some of the combinations have been more widely explored, like neuro-symbolic methods, neuro-fuzzy methods and methods combining rule-based and case-based reasoning. CIMA 2014 was held in conjunction with the 26th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2014).

Photon-Counting Image Sensors Eric R. Fossum 2018-07-06 This book is a printed edition of the Special Issue "Photon-Counting Image Sensors" that was published in Sensors

Conference proceedings. ICT for language learning Pixel 2014

Machine Learning Techniques Applied to Geoscience Information System and Remote Sensing Hyung-Sup Jung 2019-09-03 As computer and space technologies have been developed, geoscience information systems (GIS) and remote sensing (RS) technologies, which deal with the geospatial information, have been rapidly maturing. Moreover, over the last few decades, machine learning techniques including artificial neural network (ANN), deep learning, decision tree, and support vector machine (SVM) have been successfully applied to geospatial science and engineering research fields. The machine learning techniques have been widely applied to GIS and RS research fields and have recently produced valuable results in the areas of geoscience, environment, natural hazards, and natural resources. This book is a collection representing novel contributions detailing machine learning techniques as applied to geoscience information systems and remote sensing. *Technically Together* Taylor Dotson 2017-07-28 Why we should not accept “networked individualism” as the inevitable future of community. If social interaction by social media has become “the modern front porch” (as one sociologist argues), offering richer and more various contexts for community and personal connection, why do we often feel lonelier after checking Facebook? For one thing, as Taylor Dotson writes in *Technically Together*, “Try getting a Facebook status update to help move a couch or stay for dinner.” Dotson argues that the experts who assure us that “networked individualism” will only bring us closer together seem to be urging citizens to adapt their social expectations to the current limits of technology and discouraging them from considering how technologies could be refashioned to enable other ways of relating and belonging. Dotson characterizes different instantiations of community as “thick” or “thin,” depending on the facets and manifestations of

togetherness that they encompass. Individuating social networks are a form of community, he explains, but relatively thin in regard to several dimensions of communality. Dotson points out that current technological practices are not foreordained but supported by policies, economic arrangements, and entrenched patterns of thought. He examines a range of systems, organizations, and infrastructures—from suburban sprawl and smartphones to energy grids and “cry-it-out” sleep training for infants—and considers whether they contribute to the atomization of social life or to togetherness and community vibrancy. Dotson argues that technology could support multifaceted communities if citizens stopped accepting the technological status quo and instead demanded more from their ever-present devices.

Remote Sensing and Geosciences for Archaeology Deodato Tapete 2018-04-27 This book is a printed edition of the Special Issue "Remote Sensing and Geosciences for Archaeology" that was published in Geosciences

Handbook of Religion and Society David Yamane 2016-07-15 The Handbook of Religion and Society is the most comprehensive and up-to-date treatment of a vital force in the world today. It is an indispensable resource for scholars, students, policy makers, and other professionals seeking to understand the role of religion in society. This includes both the social forces that shape religion and the social consequences of religion. This handbook captures the breadth and depth of contemporary work in the field, and shows readers important future directions for scholarship. Among the emerging topics covered in the handbook are biological functioning, organizational innovation, digital religion, spirituality, atheism, and transnationalism. The relationship of religion to other significant social institutions like work and entrepreneurship, science, and sport is also analyzed. Specific attention is paid, where appropriate, to international issues as well as to race, class, sexuality, and gender differences. This handbook includes 27 chapters by a distinguished, diverse, and international collection of experts, organized into 6 major sections: religion and social institutions; religious organization; family, life course, and individual change; difference and inequality; political and legal processes; and globalization and transnationalism.

Educating for the 21st Century Suzanne Choo 2016-10-20 All over the world, governments, policymakers, and educators are advocating the need to educate students for the 21st first century. This book provides insights into what this means and the ways 21st century education is theorized and implemented in practice. The first part, “Perspectives: Mapping our futures-in-the-making,” uncovers the contradictions, tensions and processes that shape 21st century education discourses. The second part, “Policies: Constructing the future through policymaking,” discusses how 21st century education is translated into policies and the resulting tensions that emerge from top-down, state sanctioned policies and bottom-up initiatives. The third part, “Practices: Enacting the Future in Local Contexts,” discusses on-the-ground initiatives that schools in various countries around the world enact to educate their students for the 21st century. This volume includes contributions from leading scholars in the field as well as educators from schools and those working with schools.

ICGG 2020 - Proceedings of the 19th International Conference on Geometry and Graphics Liang-Yee Cheng 2020-12-01 This book covers various aspects of Geometry and Graphics, from recent achievements on theoretical researches to a wide range of innovative applications, as well as new teaching methodologies and experiences, and reinterpretations and findings about the masterpieces of the past. It is from the 19th International Conference on Geometry and Graphics, which was held in São Paulo, Brazil. The conference started in 1978 and is promoted by the International Society for Geometry and Graphics, which aims to foster international collaboration and stimulate the scientific research and teaching methodology in the fields of Geometry and Graphics. Organized five topics, which are Theoretical Graphics and Geometry; Applied Geometry and Graphics; Engineering Computer Graphics; Graphics Education and Geometry; Graphics in History, the book is intended for the professionals, academics and researchers in architecture, engineering, industrial design, mathematics and arts involved in the multidisciplinary field.

Engineering Technology, Engineering Education and Engineering Management Deyao Tan 2015-06-25 This volume contains papers presented at the International Conference on Engineering Technologies, Engineering Education and Engineering Management (ETEEEM 2014, Hong Kong, 15-16 November 2014). A wide variety of topics is included in the book: - Engineering Education - Education Engineering and Technology - Methods and Learning Mechanism

The Collaborative Economy and EU Law Vassilis Hatzopoulos 2018-02-22 'Disruptive innovation', 'the fourth industrial revolution', 'one of the ten ideas that will change the world'; the collaborative/sharing economy is shaking existing norms. It poses unprecedented challenges in terms of both material policies and governance in almost all aspects of EU law. This book explores the application – or indeed inadequacy – of existing EU rules in the context of the collaborative economy. It analyses the novelities introduced by the collaborative economy and discusses the specific regulatory needs and instruments employed therein, most notably self-regulation. Further, it aims to elucidate the legal status of the parties involved (traders, consumers, prosumers) in these multi-sided economies, and their respective roles in the provision of services, especially with regard to liability issues. Moreover, it delves into a sector-specific examination of the relevant EU rules, especially on data protection, competition, consumer protection and labour law, and comments on the uncertainties and lacunae produced therein. It concludes with the acute question of whether fresh EU regulation would be necessary to avoid fragmentation or, on the contrary, if such regulation would create unnecessary burdens and stifle innovation. Taking a broad perspective and pragmatic view, the book provides a comprehensive overview of the collaborative economy in the context of the EU legal landscape.

Conference Proceedings. The Future of Education Pixel 2015-07-01

Future Communication Technology and Engineering Kennis Chan 2015-04-06 Future Communication Technology and Engineering is a collection of papers presented at the 2014 International Conference on Future Communication Technology and Engineering (Shenzhen, China 16-17 November 2014). Covering a wide range of topics (communication systems, automation and control engineering, electrical engineering), the book includes the

Advances in SAR: Sensors, Methodologies, and Applications Timo Balz 2018-10-22 This book is a printed edition of the Special Issue "Advances in SAR: Sensors, Methodologies, and Applications" that was published in Remote Sensing

8th RILEM International Symposium on Testing and Characterization of Sustainable and Innovative Bituminous Materials

Francesco Canestrari 2015-09-24 This work presents the results of RILEM TC 237-SIB (Testing and characterization of sustainable innovative bituminous materials and systems). The papers have been selected for publication after a rigorous peer review process and will be an invaluable source to outline and clarify the main directions of present and future research and standardization for bituminous materials and pavements. The following topics are covered: - Characterization of binder-aggregate interaction - Innovative testing of bituminous binders, additives and modifiers - Durability and aging of asphalt pavements - Mixture design and compaction analysis - Environmentally sustainable materials and technologies - Advances in laboratory characterization of bituminous materials - Modeling of road materials and pavement performance prediction - Field measurement and in-situ characterization - Innovative materials for reinforcement and interlayer systems -

Cracking and damage characterization of asphalt pavements - Recycling and re-use in road pavements This is the proceedings of the RILEM SIB2015 Symposium (Ancona, Italy, October 7-9, 2015).

Ireland and Cinema Barry Monahan 2015-08-25 The volume offers a broad range of academic approaches to contemporary and historical Irish filmmaking and representations of nationality, national identity, and theoretical questions around the construction of Ireland and Irishness on the screen.

Power and Energy Richard Kong 2015-05-06 Power and Energy contains 86 selected papers from the International Conference on Power and Energy (CPE 2014, Shanghai, China, 29-30 November 2014), and presents a wide range of topics:- Energy management, planning and policy-making- Energy technologies and environment- Energy prospects- Conventional and renewable power generation- Power system man Pattern Recognition and Computer Vision Zhouchen Lin 2019-10-31 The three-volume set LNCS 11857, 11858, and 11859 constitutes the refereed proceedings of the Second Chinese Conference on Pattern Recognition and Computer Vision, PRCV 2019, held in Xi'an, China, in November 2019. The 165 revised full papers presented were carefully reviewed and selected from 412 submissions. The papers have been organized in the following topical sections: Part I: Object Detection, Tracking and Recognition, Part II: Image/Video Processing and Analysis, Part III: Data Analysis and Optimization.

Ten Years of TerraSAR-X—Scientific Results Michael Eineder 2019-04-16 This Special Issue is a collection of papers addressing the scientific use of data acquired in the course of the TerraSAR-X mission 10 years after launch. The articles deal with the mission itself, the accuracy of the products, with differential interferometry, and with applications in the domains cryosphere, oceans, wetlands, and urban areas.

Augmented Reality and Virtual Reality Timothy Jung 2017-09-04 This volume provides the latest outcomes of augmented reality (AR) and virtual reality (VR) research conducted in various industries. It reveals how AR and VR are currently changing the business landscape, and how new innovations provide opportunities for businesses to offer their customers unique services and experiences. Collecting the proceedings of the International AR & VR Conference held in Manchester, UK, in February 2017, the book advances the state of the art in AR and VR technologies and their applications in various industries such as tourism, hospitality, events, fashion, entertainment, retail, education and the gaming industry. The papers presented here cover the most significant topics within the field of AR and VR for both researchers and practitioners, approaching them from a business and management perspective.

Informatics, Networking and Intelligent Computing Jiaxing Zhang 2015-05-06 This proceedings volume contains selected papers presented at the 2014 International Conference on Informatics, Networking and Intelligent Computing, held in Shenzhen, China. Contributions cover the latest developments and advances in the field of Informatics, Networking and Intelligent Computing.

Earth Observations for Geohazards Zhenhong Li 2018-07-05 This book is a printed edition of the Special Issue "Earth Observations for Geohazards" that was published in Remote Sensing)

Situated Learning in Translator and Interpreter Training Maria Gonzalez-Davies 2018-10-18 Situated Learning is generally understood as a context-dependent approach to translator and interpreter training under which learners are exposed to real-life and/or highly simulated collaborative work environments and tasks, both inside and outside the classroom. Ultimately, Situated Learning seeks to enhance learners' capacity to think and act like professionals. This book sets out to gauge the extent to which different factors influence the implementation of Situated Learning models in various teaching and learning contexts. It presents an understanding of Situated Learning that goes beyond previous interpretations of this notion, traditionally dominated by the discussion of pedagogical practices in authentic, i.e. real-world, or semi-authentic professional settings. This wider remit of Situated Learning encompasses previously underrepresented contextual factors pertaining to translation traditions, historical trends, community beliefs and customs, socio-economic constraints, market conditions, institutional practices, budgetary issues, or resource availability. The pedagogical considerations of these key aspects make this book particularly useful for both novice and seasoned teachers of translation and interpreting with an interest in informed practical advice on how to implement the principles of Situated Learning in collaborative teaching and learning environments that seek to promote translators' and/or interpreters' professional competence. This book was originally published as a special issue of The Interpreter and Translator Trainer.

Data Mining and Big Data Ying Tan 2023-01-19 This two-volume set, CCIS 1744 and CCIS 1745 book constitutes the 7th International Conference, on Data Mining and Big Data, DMBD 2022, held in Beijing, China, in November 21-24, 2022. The 62 full papers presented in this two-volume set included in this book were carefully reviewed and selected from 135 submissions. The papers present the latest research on advantages in theories, technologies, and applications in data mining and big data. The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science, machine learning, data mining and knowledge discovery, data science, etc.

Water Management: A View from Multidisciplinary Perspectives G. M. Tarekul Islam 2022-03-25 This book brings together a selection of best papers from The International Conference on Water and Flood Management, Bangladesh, 2021. The book chapters are based on contributions from multidisciplinary fields, such as nature-based solutions, hydro-meteorological forecasting, river restoration, coastal risk, episodic natural hazards, water risk and resilience, climate-resilient infrastructure, blue economy, and water management during the COVID-19 pandemic. With changing physical and socioeconomic risks due to changes in climate and anthropogenic interventions, integrated approaches to analyzing these processes and their interactions, along with integrating nature-based solutions, are gaining traction. With this special focus on science, policy, and practice to ensure sustainability in the water sector, the conference provided a platform for researchers, policymakers, and practitioners to exchange their knowledge and experience.

Fundamentals of Infrared and Visible Detector Operation and Testing John David Vincent 2015-11-09 Presents a comprehensive introduction to the selection, operation, and testing of infrared devices, including a description of modern detector assemblies and their operation This book discusses how to use and test infrared and visible detectors. The book provides a convenient reference for those entering the field of IR detector design, test or use, those who work in the peripheral areas, and those who teach and train others in the field. Chapter 1 contains introductory material. Radiometry is covered in Chapter 2. The author examines Thermal detectors in Chapter 3; the "Classical" photon detectors – simple photoconductors and photovoltaics in Chapter 4; and "Modern Photon Detectors" in Chapter 5. Chapters 6 through 8 consider respectively individual elements and small arrays of elements the "readouts" (ROICs) used with large imaging arrays; and Electronics for FPA Operation and Testing. The Test Set and The Testing Process are analyzed in Chapters 9 and 10, with emphasis on uncertainty and trouble shooting. Chapters 11 through 15 discuss related skills, such as Uncertainty, Cryogenics, Vacuum, Optics, and the use of Fourier Transforms in the detector business. Some highlights of this new edition are that it Discusses radiometric nomenclature and calculations, detector mechanisms, the associated electronics, how these devices are tested, and real-life effects and problems Examines new tools in Infrared detector operations, specifically: selection and use of ROICs, electronics for FPA operation, operation of single element and very small FPAs, microbolometers, and multi-color FPAs Contains five chapters with frequently sought-after information on related subjects, such as uncertainty, optics, cryogenics, vacuum, and the use of Fourier mathematics for detector analyses Fundamentals of Infrared and Visible Detector Operation and Testing, Second Edition, provides the background and vocabulary necessary to help readers understand the selection, operation, and testing of modern infrared devices.

Printed Electronics Zheng Cui 2016-09-26 This book provides an overview of the newly emerged and highly interdisciplinary field of printed

electronics • Provides an overview of the latest developments and research results in the field of printed electronics • Topics addressed include: organic printable electronic materials, inorganic printable electronic materials, printing processes and equipments for electronic manufacturing, printable transistors, printable photovoltaic devices, printable lighting and display, encapsulation and packaging of printed electronic devices, and applications of printed electronics • Discusses the principles of the above topics, with support of examples and graphic illustrations • Serves both as an advanced introductory to the topic and as an aid for professional development into the new field • Includes end of chapter references and links to further reading

Rivista J-Reading n. 1-2014 Gino De Vecchis 2014-06-01 IN QUESTO NUMERO Sirpa Tani, National cases, international collaboration – an example from Finland Joop van der Schee, Looking for an international strategy for geography education Andrea Favretto, Scale factor and image resolution: some cartographic considerations Judit Ütő-Visi, Educational landscape and possibilities – Geography education (in the light of a survey) Lorena Rocca, Cristina Minelle, Francesco Bussi, Building geographical knowledge together: the case of a Geography teaching on line course THE LANGUAGE OF IMAGES, Edited by Elisa Bignante and Marco Maggioli MAPPING SOCIETIES, Edited by Edoardo Boria TEACHING FROM THE PAST

Advances in Physical Agents Raquel Fuentetaja Pizán 2018-11-20 The book reports on cutting-edge theories and methods aimed at the control and coordination of agents acting and moving in a dynamic environment. It covers a wide range of systems, including multiagent systems, domotic agents, robotic manipulators, soccer robots, autonomous and semiautonomous robots, as well as systems for industrial applications. Advances in software agents, sensors, computer visions and other related areas are also thoroughly discussed and presented in detail. Based on the 19th edition of the International Workshop of Physical Agents (WAF 2018), held on November 22-23, 2018, in Madrid, Spain, this book offers a snapshot of the state-of-the-art in the field of physical agents, with a special emphasis on autonomous systems such as mobile robots, industrial process or other complex systems.

The Conversion Code Chris Smith 2016-02-11 "If you need more traffic, leads and sales, you need The Conversion Code." Neil Patel co-founder Crazy Egg "We've helped 11,000+ businesses generate more than 31 million leads and consider The Conversion Code a must read." Oli Gardner co-founder Unbounce "We'd been closing 55% of our qualified appointments. We increased that to 76% as a direct result of implementing The Conversion Code." Dan Stewart CEO Happy Grasshopper "The strategies in The Conversion Code are highly effective and immediately helped our entire sales team. The book explains the science behind selling in a way that is simple to remember and easy to implement." Steve Pacinelli CMO BombBomb Capture and close more Internet leads with a new sales script and powerful marketing templates The Conversion Code provides a step-by-step blueprint for increasing sales in the modern, Internet-driven era. Today's consumers are savvy, and they have more options than ever before. Capturing their attention and turning it into revenue requires a whole new approach to marketing and sales. This book provides clear guidance toward conquering the new paradigm shift towards online lead generation and inside sales. You'll learn how to capture those invaluable Internet leads, convert them into appointments, and close more deals. Regardless of product or industry, this proven process will increase both the quantity and quality of leads and put your sales figures on the rise. Traditional sales and marketing advice is becoming less and less relevant as today's consumers are spending much more time online, and salespeople are calling, emailing, and texting leads instead of meeting them in person. This book shows you where to find them, how to engage them, and how to position your company as the ideal solution to their needs. Engage with consumers more effectively online Leverage the strengths of social media, apps, and blogs to capture more leads for less money Convert more Internet leads into real-world prospects and sales appointments Make connections on every call and learn the exact words that close more sales The business world is moving away from "belly-to-belly" interactions and traditional advertising. Companies are forced to engage with prospective customers first online—the vast majority through social media, mobile apps, blogs, and live chat—before ever meeting in person. Yesterday's marketing advice no longer applies to today's tech savvy, mobile-first, social media-addicted consumer, and the new sales environment demands that you meet consumers where they are and close them, quickly. The Conversion Code gives you an actionable blueprint for capturing Internet leads and turning them into customers.

Drawing Futures Bob Sheil 2016-11-11 Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture.Despite numerous developments in technological manufacture and computational design that provide new grounds for designers, the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world, the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. Drawing Futures will present a compendium of projects, writings and interviews that critically reassess the act of drawing and where its future may lie.Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational developments. The book coincides with an international conference of the same name, taking place at The Bartlett School of Architecture, UCL, in November 2016. Bringing together practitioners from many creative fields, the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas.

Low-Power CMOS Digital Pixel Imagers for High-Speed Uncooled PbSe IR Applications Josep Maria Margarit 2016-12-29 This book describes the development of a new low-cost medium wavelength IR (MWIR) monolithic imager technology for high-speed uncooled industrial applications. It takes the baton on the latest technological advances in the field of vapor phase deposition (VPD) PbSe-based MWIR detection accomplished by the industrial partner NIT S.L., adding fundamental knowledge on the investigation of novel VLSI analog and mixed-signal design techniques at circuit and system levels for the development of the readout integrated device attached to the detector. In order to fulfill the operational requirements of VPD PbSe, this work proposes null inter-pixel crosstalk vision sensor architectures based on a digital-only focal plane array (FPA) of configurable pixel sensors. Each digital pixel sensor (DPS) cell is equipped with fast communication modules, self-biasing, offset cancellation, analog-to-digital converter (ADC) and fixed pattern noise (FPN) correction. In-pixel power consumption is minimized by the use of comprehensive MOSFET subthreshold operation.

New Frontiers in Teaching and Learning English Paola Vettorel 2015-06-18 The contributions to this volume explore several focal issues related to the global spread of English and their implications for English language teaching, providing both theoretical and empirical perspectives on recent research and implications in educational terms. The volume is divided into three thematic sections, namely "Developments in ELF research and pedagogic implications", "Raising teachers' awareness of ELF", and "ELF and ELT practices". The book provides up-to-date perspectives on the issues, implications and repercussions that findings in ELF research can have for ELT practices. The contributors are all scholars and researchers who have long been engaged in ELF-related research, and who have undertaken operational and practical work in the field, and, as such, offer novel perspectives on the effects of EFL research on the teaching and learning of English. The volume also presents the findings of innovative projects in teacher education, involving pre- and in-service teachers, providing exemplificative good practices of possible new routes into pluralistic, ELF-aware and ELF-oriented didactic perspectives.

Electronics, Communications and Networks IV Amir Hussain 2015-07-01 The 4th International Conference on Electronic, Communications and Networks (CECNet2014) inherits the fruitfulness of the past three conferences and lays a foundation for the forthcoming next year in Shanghai. CECNet2014 was hosted by Hubei University of Science and Technology, China, with the main objective of providing a comprehensive global forum