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**Makoto Ikeda
Nanjian Wu
Guangjun Zhang
Kecong Ai**
Editors

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Contents

Part One

xv	<i>Symposium Committee</i>
xvii	<i>Conference Committee</i>
xix	<i>Introduction</i>
xxi	<i>Cooperating Organizations</i>

ADVANCES IN IMAGING DETECTORS AND APPLICATIONS

8194 02	A CMOS imager with negative feedback pixel circuits and its applications [8194-01] M. Ikebe, J. Motohisa, Hokkaido Univ. (Japan)
8194 03	Solid state photon counters and their applications in space related projects [8194-02] I. Prochazka, J. Blazej, J. Kodet, Czech Technical Univ. in Prague (Czech Republic)
8194 04	Research on the two-dimension performance model for human eye [8194-03] K. Ai, Xi'an Institute of Applied Optics (China) and Science and Technology on Low-Light-Level Night Vision Lab. (China)
8194 05	Infrared nonuniformity correction and radiometric calibration technology using U-shaped blackbody [8194-04] W. Jin, C. Liu, J. Xiu, Beijing Institute of Technology (United States)
8194 06	Research on photoluminescence of membrane layer of Na₂KSb antimony-alkali compound [8194-05] X. Li, North Night Vision Science and Technology Group Co., Ltd (China); F. Yu, Yunnan Univ. (China); K. Song, Y. Qian, J. Tan, W. Yan, North Night Vision Science and Technology Group Co., Ltd (China)
8194 07	Fabrication of a bulk conductive glass microchannel plate [8194-06] J. Pan, Changchun Univ. of Science and Technology (China) and North Night Vision Technology Group Corp. (China); J. Lv, T. Zheng, Changchun Univ. of Science and Technology (China); Y. Li, W. Xu, North Night Vision Technology Group Corp. (China)
8194 08	Processing and analyzing transmission electron microscope images of nanocrystals [8194-07] X. Yang, North China Electric Power Univ. (China)
8194 09	Image fusion base on improved contourlet transform [8194-08] L. Wang, Shenzhen Univ. (China) and Soochow Univ. (China); C. Li, X. Zhao, Soochow Univ. (China); X. Liu, Shenzhen Univ. (China)
8194 0A	The algorithm of motion blur image restoration based on PSF half-blind estimation [8194-09] D. Chen, Z. Lin, Beijing Institute of Space Mechanics & Electricity (China)

- 8194 0C **Adjustment-based data fusion method in the pose relay videometric using camera network** [8194-11]
Z. Chao, National Univ. of Defense Technology (China) and Hunan Key Lab. for Image Measurement and Vision Navigation (China); Q. Yu, Hunan Key Lab. for Image Measurement and Vision Navigation (China) and National Univ. of Defense Technology (China); S. Fu, G. Jiang, National Univ. of Defense Technology (China) and Hunan Key Lab. for Image Measurement and Vision Navigation (China)
- 8194 0D **Research on shutter mode of CMOS imager and its application** [8194-12]
D. Liu, Z. Liu, W. Sun, J. Zhang, Changchun Univ. Science and Technology (China)
- 8194 0E **Fabric defects identification based on on-line 3D measurement** [8194-13]
L. Song, H. An, X. Dong, C. Zhang, TianJin Polytechnic Univ. (China)
- 8194 0F **The study of color image defogging based on wavelet transform and single scale retinex** [8194-14]
M. Wang, S. Zhou, F. Huang, Z. Liu, H. Bai, PLA Univ. of Science and Technology (China)
- 8194 0G **Experimental investigation on silicon microchannel plate electron multiplier** [8194-15]
Q. Duanmu, G. Wang, Y. Li, Y. Wang, H. Cheng, X. Qin, Z. Jiang, D. Jiang, Changchun Univ. of Science and Technology (China)
- 8194 0H **Analysis on short-range millimetre wave scattering imaging system** [8194-16]
L. Zhu, X.-G. Li, G.-W. Lou, C. Zhang, Nanjing Univ. of Science and Technology (China)
- 8194 0I **A new code flag method based on coordinate quadrant in vision measurement** [8194-17]
L. Song, C. Zhang, Y. Wei, X. Dong, H. An, TianJin Polytechnic Univ. (China)
- 8194 0J **Research on optical properties of transmission-mode GaAs photocathode module** [8194-18]
J. Zhao, Y. Xiong, B. Chang, Y. Zhang, J. Zhang, Nanjing Univ. of Science and Technology (China)
- 8194 0K **Research of BRDF effects on remote sensing imagery** [8194-19]
P. Nina, W. Kun, L. Tao, P. Yang, Beijing Institute of Space Mechanics & Electricity (China)
- 8194 0L **Design of 300 frames per second 16-port CCD video processing circuit** [8194-20]
S. Yang, M. Guo, B. Li, J. Xia, Q. Wang, Northwest Institute of Nuclear Technology (China)
- 8194 0M **Development of 4kx4k long-range digital imaging system** [8194-21]
M. Guo, Q. Wang, S. Yang, J. Xia, F. Sun, Northwest Institute of Nuclear Technology (China); C. Liu, Qinshan Nuclear Power Co., Ltd. (China)
- 8194 0N **Photoemission performance of gradient-doping transmission-mode GaAs photocathodes** [8194-22]
Y. Zhang, Nanjing Univ. of Science & Technology (China); J. Niu, Nanjing Univ. of Science & Technology (China) and Nanyang Institute of Technology (China); J. Zou, Y. Xiong, B. Chang, J. Zhang, Y. Du, Nanjing Univ. of Science & Technology (China)

- 8194 0O **The research on and application of detecting technology in car intelligent video-aided driving system** [8194-23]
Y. Chen, L. Sun, C. Lu, Guilin Univ. of Electronic Technology (China)
- 8194 0P **Pipeline structure for real-time centroid calculation of Hartmann wavefront sensor with horizontal multi-channel pixel output** [8194-24]
S. Wang, Institute of Optics and Electronics (China) and The Key Lab. on Adaptive Optics (China) and Graduate Univ. of Chinese Academy of Sciences (China); C. Wang, C. Rao, Institute of Optics and Electronics (China) and The Key Lab. on Adaptive Optics (China)
- 8194 0Q **The theory studies and simulation of optical rotation of uniaxial crystal particle** [8194-25]
Y. Y. Zhu, Y. Wei, J. F. Shen, Y. T. Li, H. X. Dou, Yanshan Univ. (China)
- 8194 0R **The research on statistical properties of TDI-CCD imaging noise** [8194-26]
Y. Gu, Changchun Institute of Optics, Fine Mechanics and Physics (China) and Graduate Univ. of Chinese Academy of Sciences (China); X. Shen, G. He, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 8194 0S **Real-time distortion correction system of large-field optical display equipment based on FPGA** [8194-27]
C. Zheng, Y. Zhou, Science and Technology on Electro-optic Control Lab. (China) and Luoyang Institute of Electro-Optical Equipment (China); Y. Zheng, J. Li, Luoyang Institute of Electro-Optical Equipment (China)
- 8194 0T **Reverse engineering of the homogeneous-entity product profiles based on CCD** [8194-28]
Y. Gan, J. Zhong, N. Sun, A. Sun, Guilin Univ. of Electronic Technology (China)
- 8194 0U **The three-dimensional measurement research of aero-engine blade based on structured light** [8194-29]
Y. Fu, M. Wan, Nanchang Hangkong Univ. (China)
- 8194 0V **Change detection of multi-temporal remote sensing images based on multi-band KL transform** [8194-30]
Y. Chen, X. Zhao, Shenzhen Univ. (China) and Soochow Univ. (China); X. Liu, Shenzhen Univ. (China)
- 8194 0W **High dynamic range color imaging with a camera based on piecewise color characterization** [8194-31]
B. Tan, N. Liao, Y. Lian, L. Tian, W. Wu, Beijing Institute of Technology (China)
- 8194 0X **Vision measurement method of object position in large remote area** [8194-32]
M. Liu, Beijing Technology and Business Univ. (China) and Beijing Institute of Technology (China); K. Li, H. Cai, W. Zhu, Beijing Institute of Technology (China)
- 8194 0Y **Camouflaged target detection based on visible and near infrared polarimetric imagery fusion** [8194-33]
P. Zhou, F. Wang, H. Zhang, M. Xue, Hefei New Star Applied Technology Research Institute (China)

- 8194 0Z **Research on 0.1THz alternating current radiometric security inspection imaging for antiterrorism application** [8194-34]
G. Zhang, W. Qin, G. Lou, Nanjing Univ. of Science and Technology (China)
- 8194 10 **Multi-focus image fusion algorithm based on adaptive PCNN and wavelet transform** [8194-35]
Z. Wu, M. Wang, G. Han, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 8194 11 **Design of high-speed driving circuit for large area array full frame transfer CCD** [8194-36]
Y. Wang, Z. He, Beijing Institute of Space Mechanics and Electricity (China)
- 8194 12 **The research of polarization image fusion method based on modulation in multi-scale space** [8194-37]
L. Xiao, Anhui Institute of Optics and Fine Mechanics (China) and Electronic Engineering Institute (China); W. Feng, New Star Research Institute of Applied Technology (China)
- 8194 13 **Stray light and its reduction of focal plane arrays** [8194-38]
C. Yu, J. Zhou, R. Shi, W. Shen, Soochow Univ. (China)
- 8194 14 **A new method of focal plane mosaic for space remote sensing camera** [8194-39]
G. Sun, L. Li, Beijing Institute of Technology (China)
- 8194 15 **The x-ray imaging system's requirements for CCD pixel** [8194-40]
C. Yu, Peking Univ. Shenzhen Graduate School (China) and Nanjing Univ. of Posts and Telecommunication (China); L. Kong, Shenzhen Invengo Information Technology Co., Ltd. (China); J. Zhang, Nanjing Univ. of Science and Technology (China); C. He, S. Zhang, Peking Univ. Shenzhen Graduate School (China)
- 8194 16 **Detection research on low light level target with joint transform correlator** [8194-41]
S. Zhang, J. Shang, C. Chen, W. Wang, Changchun Univ. of Science and Technology (China)
- 8194 17 **A practical method to extending dynamic range of CCD camera** [8194-42]
Z. Chen, Xi'an Institute of Optics and Precision Mechanics (China) and Graduate Univ. of Chinese Academy of Sciences (China); Y. Qiu, Y. Wen, B. Jiang, B. Gao, Xi'an Institute of Optics and Precision Mechanics (China)
- 8194 18 **Monocular visual odometry based on inverse perspective mapping** [8194-43]
Y. Cao, Y. Feng, Y. Yang, Y. Chen, B. Lei, L. Zhao, National Univ. of Defense Technology (China)
- 8194 19 **Ground moving target geo-location from monocular camera mounted on a micro air vehicle** [8194-44]
L. Guo, H. Ang, X. Zheng, Nanjing Univ. of Aeronautics and Astronautics (China)
- 8194 1A **The research on the moiré fringe image preprocessing** [8194-45]
X. Xiao, M. Ao, C. Yang, R. Yang, Univ. of Electronic Science and Technology of China (China)
- 8194 1B **Vision-based multiple vehicle detection and tracking at nighttime** [8194-46]
W. Xu, H. Liu, Shandong Univ. At Weihai (China)

- 8194 1C **Improvement for exposure time measurement of the microchannel plate gated framing camera** [8194-47]
H. Cai, Tianjin Univ. (China) and Shenzhen Univ. (China); J. Liu, Shenzhen Univ. (China); X. Peng, Tianjin Univ. (China) and Shenzhen Univ. (China); L. Niu, W. Peng, L. Gu, J. Long, Shenzhen Univ. (China)
- 8194 1D **Monte Carlo simulation for x-ray detector** [8194-48]
H. Cai, Tianjin Univ. (China) and Shenzhen Univ. (China); J. Liu, Shenzhen Univ. (China); X. Peng, Tianjin Univ. (China) and Shenzhen Univ. (China); L. Niu, W. Peng, J. Long, Shenzhen Univ. (China)
- 8194 1E **Computation for polarizer's optimal rotation angle on airborne optical platform** [8194-49]
B. Feng, Shenyang Institute of Automation (China) and Graduate School of the Chinese Academy of Sciences (China) and Key Lab. Opto-Electronic Information Processing (China); Z. Shi, Shenyang Institute of Automation (China) and Key Lab. Opto-Electronic Information Processing (China); Q. Ding, Research Institute of General Development and Demonstration of Equipment (China); X. Yu, Avic Hongdu Aviation Industry Group Ltd. (China)
- 8194 1F **An autonomous low-power high-resolution micro-digital sun sensor** [8194-50]
N. Xie, Technische Univ. Delft (Netherlands); A. J. P. Theuwsen, Technische Univ. Delft (Netherlands) and Harvest Imaging (Belgium)
- 8194 1G **Research on surface free energy of electrowetting liquid zoom lens** [8194-52]
C. Zhao, G. Lu, D. Wei, Luoyang Normal Univ. (China); X. Hong, Henan Institute of Science and Technology (China); D. Cui, C. Gao, Luoyang Normal Univ. (China)
- 8194 1H **A digital auto-focusing method based on CCD mosaicing for aerial camera** [8194-53]
Y. Wang, Y. Liu, X. Chen, Harbin Institute of Technology (China)
- 8194 1I **The MCP dynamic characteristics with different bias voltage** [8194-54]
H. Cai, Shenzhen Univ. (China) and Tianjin Univ. (China); J. Liu, Shenzhen Univ. (China); X. Peng, Shenzhen Univ. (China) and Tianjin Univ. (China); L. Niu, W. Peng, J. Long, Shenzhen Univ. (China)
- 8194 1J **An imaging geometry model of space camera** [8194-55]
Z. Zhang, Z. Liu, Beijing Institute of Space Mechanics and Electricity (China)
- 8194 1K **Research on computer tracking system of uniaxial tension based on image correlation method** [8194-56]
W. Wang, Nanjing Institute of Technology (China); X. He, Southeast Univ. (China)
- 8194 1L **A relative radiometric correction method for linear array push-broom imagery** [8194-57]
H. Li, H. Song, Beijing Institute of Satellite Information Engineering (China)
- 8194 1M **The low light level image intensifier's application in x-ray imaging** [8194-58]
C. Yu, Peking Univ. Shenzhen Graduate School (China) and Nanjing Univ. of Posts and Telecommunication (China); L. Kong, Shenzhen Invengo Information Technology Co., Ltd. (China); J. Zhang, Nanjing Univ. of Science and Technology (China); S. Zhang, Peking Univ. Shenzhen Graduate School (China)

- 8194 1N **The imaging system design of three-line LMCCD mapping camera** [8194-59]
H.-D. Zhou, J.-G. Liu, X.-X. Wu, S.-L. Lv, Y. Zhao, Changchun Institute of Optics, Fine Mechanics and Physics (China); D. Yu, Changchun Institute of Optics, Fine Mechanics and Physics (China) and Graduate School of the Chinese Academy of Science (China)
- 8194 1O **Long focal length large-aperture switch-zoom system design** [8194-60]
Y. Wang, J. Duan, H. Jin, K. Jiang, H. Zhang, Xi'an Institute of Optics and Precision Mechanics (China)
- 8194 1P **Measuring the steel tensile deformation based on linear CCD** [8194-61]
L. Deng, W. Liang, X. Fan, T. Xu, H. Yang, L. Chen, D. Chen, Y. Liu, Univ. of Electronic Science and Technology of China (China)
- 8194 1Q **XPS study on microporous surface composition of microchannel plates** [8194-62]
Y. Huang, Y. Zhang, H. Liu, Z. Gu, China Building Materials Academy (China)
- 8194 1R **Real-time low-light-level image enhancement algorithm applies to FPGA** [8194-63]
S. Tian, Ningbo Dahongying Univ. (China); Y. Tian, Guizhou Univ. (China); J. Jue, Ningbo Dahongying Univ. (China)
- 8194 1S **Research on inside surface of hollow reactor based on photoelectric detecting technique** [8194-64]
G. Song, Y. Na, W. Shi, Q. Zhang, Changchun Univ. of Science and Technology (China)
- 8194 1T **The research of the application of the computer vision on the non-contacted body measurement based on the improved ant colony algorithm in the body type clustering** [8194-65]
Q. Zhan, Anhui Agriculture Univ. (China); N. Zhao, Hefei Electronic Engineering Institute (China)
- 8194 1U **Multispectral imaging utilizing LCTF technology for plant disease detection** [8194-66]
L. Tian, N. Liao, Beijing Institute of Technology (China); A. Chai, Chinese Academy of Agricultural Sciences (China); B. Tan, D. Cui, J. Wang, Beijing Institute of Technology (China)
- 8194 1V **Light decreases through the x-ray imaging chain** [8194-67]
C. Yu, Peking Univ. Shenzhen Graduate School (China) and Nanjing Univ. of Posts and Telecommunication (China); L. Kong, Shenzhen Invengo Information Technology Co., Ltd. (China); J. Zhang, Nanjing Univ. of Science and Technology (China); S. Zhang, Peking Univ. Shenzhen Graduate School (China)
- 8194 1W **Measurement and analysis of signal to noise ratio for image intensifier tube, 18mm microchannel plate** [8194-68]
X. Bai, F. Shi, National Key Lab. of Science and Technology on Low Light Level Night Vision (China) and North Night Vision Technology Co., Ltd. (China); H. Feng, Northwest Institute of Nuclear Technology (China); R. Liu, Xi'an Technological Univ. (China); L. Yin, Y. He, National Key Lab. of Science and Technology on Low Light Level Night Vision (China) and North Night Vision Technology Co., Ltd. (China)
- 8194 1X **Performance simulation of dual-band IR imaging detector based on MATLAB** [8194-69]
L. Zhang, H. Chen, Luoyang Optoelectronic Technology Development Ctr. (China)

- 8194 1Y **Research on gas within transformer oil based on photo-spectroscopy technology** [8194-70]
G. Song, Y. Na, Q. Zhang, W. Shi, Changchun Univ. of Science and Technology (China)

Part Two

- 8194 1Z **The research of real time auto-recognition of the moiré fringe** [8194-71]
M. Wang, Z. Wu, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 8194 20 **Design considerations and detection capability verification of an imaging Thomson scattering system based on an IEMCCD** [8194-72]
X. Xi, J. Zhao, Institute of Plasma Physics (China); S. Kado, The Univ. of Tokyo (Japan); Q. Zang, X. Han, X. Dai, J. Yang, M. Li, C. Shao, Institute of Plasma Physics (China)
- 8194 21 **Smear radiometric correction algorithm in star images based on kernel density estimation** [8194-73]
J. Gao, Z. Zhang, R. Yao, J. Sun, Y. Zhang, Northwestern Polytechnical Univ. (China)
- 8194 22 **Experimental study for the effects of stellar spectrums on the location accuracy of a star sensor** [8194-74]
Z. Wu, J. Yang, National Univ. of Defense Technology (China); D. Su, Naval Aeronautical and Astronautical Univ. (China)
- 8194 23 **High accuracy ground target location using loitering munitions platforms** [8194-75]
Z. Wang, H. Wang, J. Han, Beijing Univ. of Aeronautics & Astronautics (China)
- 8194 24 **A measurement error evaluation method of videometrics** [8194-76]
J. Zhou, Y. Xu, Y. Shang, National Univ. of Defense Technology (China) and Hunan Key Lab. of Videometrics and Vision Navigation (China)
- 8194 25 **Technology research of high-definition CCD camera Based on FPG** [8194-77]
Y. Tian, J. Cao, D. Yao, Z. Xu, J. Huang, Xi'an Institute of Optics and precision Mechanics (China)
- 8194 26 **3D hand and palmprint acquisition using full-field composite color fringe projection** [8194-78]
H. Feng, Z. Wang, Hebei Univ. of Technology (China); D. Kuang, Nankai Univ. (China); Z. Zhang, S. Zhang, Hebei Univ. of Technology (China)
- 8194 27 **New close-range photogrammetry method based on grain-lacking object** [8194-79]
X. Yang, Z. Li, Surveying and Mapping Institute (China)
- 8194 28 **A 3D polarizing display system base on backlight control** [8194-80]
P. Liu, Z. Huang, Univ. of Electronic Science and Technology of China (China)
- 8194 29 **An anti-disturbing real time pose estimation method and system** [8194-81]
J. Zhou, X. Zhang, National Univ. of Defense Technology (China) and Hunan Key Lab. of Videometrics and Vision Navigation (China)
- 8194 2A **Rapid fabrication of lightweight SiC mirror using CCOS** [8194-82]
H. Zhu, X. Liu, D. Yan, P. Ma, Chengdu Fine Optical Engineering Research Ctr. (China)

- 8194 2B **The simple model of large scale co-ordinate measuring system and its error analysis** [8194-83]
H. Cai, W. Zhu, K. Li, Beijing Institute of Technology (China); M. Liu, Beijing Institute of Technology (China) and Beijing Technology and Business Univ. (China)
- 8194 2C **The report on performance of image intensifier affected by gas on surface** [8194-84]
L. Yan, F. Shi, Y. Cheng, H. Cheng, H. Shi, Z. Hou, F. Liu, North Night Vision Technology Group Co., Ltd. (China)
- 8194 2D **X-ray compound refractive lens made of Al Mg and Si** [8194-85]
Q. Jian, W. Peng, Shenzhen Univ. (China)
- 8194 2E **A high-speed image acquisition and processing system in photoelectric tracking** [8194-86]
L. Qin, Z. Hou, Y. Wu, F. Tan, F. He, Anhui Institute of Optics and Fine Mechanics (China)
- 8194 2F **Temporal differential CMOS image sensor for low-light and high-speed applications** [8194-87]
N. Guan, X. Zhang, Z. Dong, W. Wang, Y. Gui, J. Han, Y. Wang, B. Huang, H. Chen, Institute of Semiconductors (China)
- 8194 2G **Readout on the resonant-cavity-enhanced InGaAs/GaAs quantum-dot photodetector** [8194-88]
F. Guo, Y. Wang, F. Mao, Z. Zheng, J. Chu, East China Normal Univ. (China)
- 8194 2H **Optical imaging based on compressive sensing** [8194-89]
S. Li, C. Ma, A. Xia, Xi'an Institute of Optics and Precision Mechanics (China)
- 8194 2I **Analysis of speckle-pattern interference fringes for transverse or longitudinal displacement** [8194-90]
F. Huo, J. Guo, W. Wang, Changchun Univ. of Science and Technology (China)
- 8194 2J **Experiment study on compatibility between high performance microchannel plate and gen III image intensifier** [8194-91]
S. Liu, Y. Zhu, F. Shi, J. Nie, T. Zhang, X. Liu, N. Zhang, Z. Liu, Y. He, X. Bai, North Night Vision Science & Technology Group Corp. (China) and National Key Lab. of Science and Technology on low Light Level Night Vision (China); J. Sun, J. Pan, X. Cong, North Night Vision Science & Technology Group Corp. (China)
- 8194 2K **Fusing edges and feature points for robust target tracking** [8194-92]
W. Li, Shenyang Institute of Automation (China) and Graduate School of the Chinese Academy of Sciences (China) and Key Lab. Opto-Electronic Information Processing (China); Z. Shi, Shenyang Institute of Automation (China) and Key Lab. Opto-Electronic Information Processing (China); J. Yin, Q. Ding, Research Institute of General Development and Demonstration of Equipment (China)
- 8194 2L **Performance simulation of reflection-mode GaAs photocathodes with back-interface recombination** [8194-93]
J. Zou, East China Institute of Technology (China) and Nanjing Univ. of Science and Technology (China); W. Deng, L. Feng, East China Institute of Technology (China); B. Chang, Nanjing Univ. of Science and Technology (China)

- 8194 2M **3D information extraction based on a novel x-ray imaging system** [8194-94]
C. Yu, Peking Univ. Shenzhen Graduate School (China) and Nanjing Univ. of Posts and Telecommunication (China); L. Kong, Shenzhen Invengo Information Technology Co., Ltd. (China); J. Zhang, Nanjing Univ. of Science and Technology (China); S. Zhang, Peking Univ. Shenzhen Graduate School (China)
- 8194 2N **Design and characterization of radiation tolerant CMOS image sensor for space applications** [8194-95]
X. Wang, J. Bogaerts, W. Ogiers, G. Beeckman, G. Meynants, CMOSIS N.V. (Belgium)
- 8194 2O **Gain and noise analysis of an intensified EMCCD** [8194-96]
X. Xi, J. Zhao, Q. Zang, X. Han, X. Dai, J. Yang, L. Zhang, M. Li, Institute of Plasma Physics (China)
- 8194 2P **Precise motion compensation based on weighted sub-pixel image matching** [8194-97]
G. Han, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 8194 2Q **The influence of barrier on dielectric barrier discharge** [8194-98]
Y. Wang, Z. Yin, M. Huang, J. Wan, North China Electric Power Univ. (China)
- 8194 2R **Theodolite-camera videometrics system based on total station** [8194-99]
Z. Zhu, Y. Yuan, X. Zhang, National Univ. of Defense Technology (China) and Hunan Key Lab. of Videometrics and Vision Navigation (China)
- 8194 2S **Camera calibration method based on circular ring** [8194-100]
Y. Yuan, Z. Zhu, Y. Gui, T. Xie, National Univ. of Defense Technology (China) and Hunan Key Lab. of Videometrics and Vision Navigation (China)
- 8194 2T **A new mosaic method for three-dimensional surface** [8194-101]
Y. Yuan, Z. Zhu, Y. Ding, National Univ. of Defense Technology (China) and Hunan Key Lab. of Videometrics and Vision Navigation (China)
- 8194 2U **Methods of reducing TDM crosstalk in an inline FBG based Fabry-Perot sensor** [8194-102]
Y. Lu, Z. Meng, National Univ. of Defense Technology (China)
- 8194 2V **The research on a novel type of the solar-blind UV head-mounted displays** [8194-103]
S. Zhao, North China Electric Power Univ. (China)
- 8194 2W **Spectral response and SNR analysis of an Offner imaging spectrometer** [8194-104]
Z. Wu, X. Du, Univ. of Science and Technology of China (China); Z. Ma, W. Huang, National Engineering Research Ctr. for Information Technology in Agriculture (China); Q. Wang, Univ. of Science and Technology of China (China)
- 8194 2X **Weak-light automatic readout collection and display on the resonant-cavity-enhanced quantum dot photoelectric sensor** [8194-105]
F. M. Guo, H. You, W. Q. Gu, D. D. Han, Z. Q. Zhu, East China Normal Univ. (China)
- 8194 2Y **Research on high accuracy diameter measurement system with CCD** [8194-106]
B. Su, Beijing Key Lab. for Terahertz Spectroscopy and Imaging (China) and Capital Normal Univ. (China); G. Duan, Beijing Institute of Technology (China)

- 8194 2Z **The optimization of noise and dynamic range with variable-gain column amplifier in CMOS image sensors** [8194-107]
R. Deng, J. Yu, Y. Chen, Shanghai Institute of Technical Physics (China)
- 8194 30 **A study on the buffeting aberrance regulation of TDICCD mapping camera** [8194-108]
Z. Bai, Xi'an Institute of Optics and Precision Mechanics (China) and Graduate Academy of China Association of Science (China); Z. Ma, B. Zhang, Xi'an Institute of Optics and Precision Mechanics (China)
- 8194 31 **In-orbit performance calibration method of imaging satellites based on stars** [8194-109]
Y. Yuan, Y. Zhang, Z. Yin, Shanghai Engineering Ctr. for Micro-satellites (China) and Shanghai Institute of Micro-system and Information Technology (China)
- 8194 32 **Integrated solution for high resolution CCD camera imaging circuits** [8194-110]
Z. Bai, Xi'an Institute of Optics and Precision Mechanics (China) and Graduate Academy of China Association of Science (China); Y. Xu, Sichuan Univ. (China); B. Zhang, K. Duan, Xi'an Institute of Optics and Precision Mechanics (China)
- 8194 33 **A high-speed CMOS image sensor with column-parallel single capacitor CDSs and single-slope ADCs** [8194-111]
Q. Li, C. Shi, N. Wu, Institute of Semiconductors (China)
- 8194 34 **Depth map resolution enhancement for 2D/3D imaging system via compressive sensing** [8194-112]
J. Han, O. Loffeld, K. Hartmann, Univ. Siegen (Germany)
- 8194 35 **Image lag optimization of four-transistor pixel for high speed CMOS image** [8194-113]
Y. Zhou, Z. Cao, Q. Li, Q. Qin, N. Wu, Institute of Semiconductors (China)
- 8194 36 **Research on UV detector technology and application in MAWS** [8194-114]
D. Yao, W. Hao, X. Yang, Y. Tian, Xi'an Institute of Optics and Precision Mechanics (China)
- 8194 37 **Study of MBE growth for extended blue photocathode window layer** [8194-115]
G. Jiao, Science and Technology on Low-Light-Level Night Vision Lab. (China) and North Night Vision Technology Group Co., Ltd (China) and Northwestern Polytechnical Univ. (China); F. Shi, C. Hu, Science and Technology on Low-Light-Level Night Vision Lab. (China) and North Night Vision Technology Group Co., Ltd (China); W. Wang, Beijing National Lab. for Condensed Matter Physics (China); W. Cheng, X. Xu, Science and Technology on Low-Light-Level Night Vision Lab. (China) and North Night Vision Technology Group Co., Ltd (China)
- 8194 38 **Visibility enhancement for robust tracking under bad weather** [8194-116]
S. Kang, W. Bo, Beijing Institute of Technology (China)
- 8194 3A **Development of a near infrared image intensifier using a generation III configuration** [8194-118]
B. Ren, F. Shi, H. Cheng, H. Liu, L. Feng, L. Zhang, Z. Miao, North Night Vision Technology Group Co., Ltd (China)

- 8194 3B **Design of image stabilization system for space remote sensor based on DaVinci technology** [8194-119]
H. Li, Z. Liu, P. Xu, Beijing Institute of Space Mechanics & Electricity (China)
- 8194 3C **Statistical analyses of noise in photon imaging detection system** [8194-120]
Y. Huang, X. Zhang, X. Yu, Beijing Institute of Technology (China)
- 8194 3D **Study on transient noise of CCD camera induced by γ -ray** [8194-121]
B. Duan, D. Hei, G. Song, J. Ma, Z. Zhang, C. Han, Y. Song, M. Zhou, L. Lei, Northwest Institute of Nuclear Technology (China)
- 8194 3E **Studying on red edge characteristics of maize leaf using visible /near-infrared imaging hyperspectra** [8194-122]
D. Zhang, Q. Liao, Beijing Research Ctr. for Information Technology in Agriculture (China) and Zhejiang Univ. (China); L. Huang, J. Zhao, S. Du, Beijing Research Ctr. for Information Technology in Agriculture (China); Z. Ma, Beijing Research Ctr. for Information Technology in Agriculture (China) and Beijing Research Ctr. for Agri-food Testing and Farmland Monitoring (China)
- 8194 3F **Fluid flow and heat transfer in Joule-Thomson coolers coupled with infrared detectors** [8194-123]
B. Du, W. Jia, Luoyang Opto-electro Technology Development Ctr. (China)
- 8194 3G **3D shape measurement based on Hilbert transform** [8194-124]
F. Wang, Y. Xie, J. Guo, Z. Yin, L. Chen, Gannan Normal Univ. (China)
- 8194 3H **The computer scene generation for star simulator hardware-in-the-loop simulation** [8194-125]
Y. Zhang, H. Yu, H. Du, J. Lei, Beijing Simulation Ctr. (China)
- 8194 3L **Image noise removal using Kalman-Filter on dark frame** [8194-129]
T. Liu, J. Zhao, H. Feng, Z. Xu, H. Chen, Zhejiang Univ. (China)
- 8194 3M **Detection technology of simultaneous imaging polarization** [8194-130]
C.-J. Yang, S. Li, Z.-W. Qiu, J. Hong, Y.-L. Qiao, Anhui Institute of Optical and Fine Mechanic (China)

Author Index

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Introduction

We have had the great honor to organize the 4th International Symposium on Photoelectronic Detection and Imaging in Beijing; it follows ISPD12009 held also in Beijing in 2009. More than 1000 participants attended ISPD1 2011. The symposium provided a forum for the participants to report and review ideas and up-to-date comprehensive progress and developments and to discuss the novel approaches to application areas in the field of photoelectronic detection and imaging.

There were 720 papers accepted for presentation at ISPD1 2011, contributed by over 1,200 authors from nearly 20 countries, including: United States, Canada, Russia, United Kingdom, Germany, Ireland, Belgium, Poland, Czech Republic, South Africa, Australia, Korea, Japan, India, Malaysia, Singapore, China, and so on. We have nearly 100 international famous scientists and experts as invited speakers. The invited papers covered topics such as sensor and micromachined optical device technologies, laser sensing and imaging, infrared imaging and applications, imaging detector and applications, terahertz wave technologies and applications, space exploration technologies and applications, and related technologies and applications. It is sincerely hoped that the research and development in photoelectronic detection and imaging will be promoted, and the international cooperation sharing the common interest will be enhanced.

I would like to heartily to thank our sponsors and cooperative organizations for all they have done for the symposium. Thanks also to all the authors for their contributions to these proceedings, to all of the participants and friends for their interest and efforts in helping to make the symposium possible, to the organizing committee and the program committee for their effective work and valuable advice, especially the ISPD12011 Secretariat, and to the SPIE staff for their tireless effort and outstanding service in preparing and publishing the conference proceedings.

Again, we extend our warmest greetings to you and hope you have had a rewarding and exciting stay during ISPD1 2011.

Guofan Jin

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