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## Contents

### Symposium Committees
xiii

### Conference Committee
xv

### Introduction
xvii

## Part One

### SESSION 1 ELECTRONIC IMAGING SYSTEMS

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6833 02</td>
<td>Photo-collection representation based on viewpoint clustering (Invited Paper) [6833-87]</td>
<td>A. Sibiryakov, Mitsubishi Electric ITE B.V. (United Kingdom)</td>
</tr>
<tr>
<td>6833 03</td>
<td>High speed real-time wavefront processing system for a solid-state laser system [6833-48]</td>
<td>Y. Liu, P. Yang, S. Chen, L. Ma, Institute of Optics and Electronics (China) and Graduate School of Chinese Academy of Sciences (China); B. Xu, Institute of Optics and Electronics (China)</td>
</tr>
<tr>
<td>6833 05</td>
<td>Research on the two dimension performance model for low light level imaging systems [6833-42]</td>
<td>K. Ai, Xi’an Institute of Applied Optics (China); L. Zhou, Beijing Institute of Technology (China)</td>
</tr>
<tr>
<td>6833 06</td>
<td>Study on simulation of low light level images and photon images [6833-71]</td>
<td>L. Zhao, X. Yu, Y. Chen, Beijing Institute of Technology (China)</td>
</tr>
<tr>
<td>6833 07</td>
<td>Automatic optical inspection for chip components based on local principal wave probability [6833-129]</td>
<td>J. Wu, Huazhong Univ. of Science and Technology (China); F. Sun, Huazhong Institute of Electro-Optics (China); Y. Wang, Huazhong Univ. of Science and Technology (China)</td>
</tr>
<tr>
<td>6833 08</td>
<td>Network video transmission system based on SOPC [6833-64]</td>
<td>Z. Zhang, H. Deng, Z. Xia, Yangtze Univ. (China)</td>
</tr>
<tr>
<td>6833 09</td>
<td>A 3D model retrieve method integrating shape distribution and self-organizing feature map [6833-61]</td>
<td>M. Huang, H. Jing, Y. Zhong, B. Kuang, Guilin Univ. of Electronic Technology (China)</td>
</tr>
<tr>
<td>6833 0A</td>
<td>The application of coded excitation technology in medical ultrasonic Doppler imaging [6833-47]</td>
<td>W. Li, X. Chen, J. Bao, D. Yu, Tianjin Univ. (China)</td>
</tr>
</tbody>
</table>
### Session 2: Image Processing I

<table>
<thead>
<tr>
<th>6833 0B</th>
<th>Integrated optical 3D digital imaging based on DSP scheme (Invited Paper) [6833-55]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X. Wang, X. Peng, Shenzhen Univ. (China) and Tianjin Univ. (China); B. Z. Gao, Clemson Univ. (USA)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0C</th>
<th>Embedded video monitoring system based on the OMAP [6833-58]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Z.-H. Xia, T.-T. Pan, Z.-B. Zhang, Yangtze Univ. (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0D</th>
<th>Elimination of intra-page crosstalk noise in holographic data storage by using pixel-matched spread function [6833-120]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H. Wang, S. Tao, Y. Wan, Z. Jiang, D. Wang, Beijing Univ. of Technology (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0E</th>
<th>An image quality assessment algorithm used for JPEG compressed image [6833-73]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>R. Li, Q. Huang, Y. Lu, Beijing Institute of Technology (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0F</th>
<th>The system integration of image processing [6833-141]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Q. Chen, Institute of Optics and Electronics (China) and Graduate School of the Chinese Academy of Sciences (China); Q. Wu, X. Gao, G. Ren, Institute of Optics and Electronics (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0G</th>
<th>An improved SUSAN algorithm for electronic image stabilization of the UAV video image [6833-105]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H. Zhao, Peking Univ. (China); Y. Cheng, G. Li, China Univ. of Mining and Technology (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0H</th>
<th>A new method for stabilization of video images with large moving object [6833-103]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>P. Gao, L. Yan, H. Zhao, Peking Univ. (China)</td>
</tr>
</tbody>
</table>

### Session 3: Image Processing II

<table>
<thead>
<tr>
<th>6833 0J</th>
<th>Despeckling algorithm on ultrasonic image using adaptive block-based singular value decomposition (Invited Paper) [6833-20]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>N. Sae-Bae, S. Udomhunsakul, King Mongkut's Institute of Technology Ladkrabang (Thailand)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0K</th>
<th>A nonlinear prediction filter algorithm based on the adaptive tracking theory [6833-142]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M. Xiong, Institute of Optics and Electronics (China) and Graduate Univ. of Chinese Academy of Sciences (China); Q. Wu, X. Gao, Institute of Optics and Electronics (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0L</th>
<th>Analysis of the enrichment jet plane engine's UV image histogram [6833-19]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S. Chang, X. Shen, J. Yang, J. Yang, National Univ. of Defense Technology (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0M</th>
<th>A novel eyelid detection method for iris segmentation [6833-52]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y. Wang, T. Liu, J. Jiang, Tianjin Univ. (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0N</th>
<th>Size measurement of standing and sitting position based on human animation [6833-123]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X. Li, Q. Tian, B. Ge, Y. Wei, Q. Lü, Tianjin Univ. (China)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>6833 0O</th>
<th>Subaperture algorithm for airborne spotlight SAR imaging with nonideal motions [6833-128]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Y. Li, D. Zhu, Nanjing Univ. of Aeronautics and Astronautics (China)</td>
</tr>
</tbody>
</table>
SESSION 4  TARGET DETECTION AND IMAGE REGISTRATION

A new sub-pixel imaging algorithm based on multi-resolution filtering and its real-time realizing technology [6833-62]
J. Zhang, Security Printing Institute of People's Bank of China (China); G. Ni, Beijing Institute of Technology (China); X. Liu, Xi'an Institute of Optics and Precision Mechanics (China)

Two fast algorithms of image inpainting [6833-99]
Y. He, Z. Hou, C. Wang, Tianjin Univ. (China)

A scale rotation adaptive new mean shift tracking method [6833-97]
H. Zhang, L. Li, Y. Li, Q. Yu, National Univ. of Defense Technology (China)

SESSION 5  IMAGE RECOGNITION AND FUSION

A vision-based detection algorithm for unmarked road [6833-75]
Q. Gao, Nanjing Univ. of Aeronautics and Astronautics (China) and Civil Aviation Univ. of China (China); M. Sun, X. Si, Northeast Dianli Univ. (China); G. Yang, Nanjing Univ. of Aeronautics and Astronautics (China)

Road and linear structure automatic extraction [6833-102]
Q. Hao, X. Chen, G. Ni, H. Zhang, Beijing Institute of Technology (China)

Fast Hough transform for automatic bridge extraction [6833-83]
Q. Hao, X. Chen, G. Ni, H. Zhang, Beijing Institute of Technology (China)

A coarse registration method of range image based on SIFT [6833-68]
X. Liu, Shenzhen Univ. (China) and Tianjin Univ. (China); X. Peng, Y. Yin, J. Tian, A. Li, X. Zhao, Shenzhen Univ. (China)

Research on registration algorithm for check seal verification [6833-104]
S. Wang, Tianjin Univ. (China) and Research Institute of Physical and Chemical Engineering of Nuclear Industry (China); T. Liu, Tianjin Univ. (China)

Image matching based on epipolar and local homography constraints [6833-115]
L. Li, H. Zhang, D. Fu, Y. Li, Q. Yu, National Univ. of Defense Technology (China)
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6833 14</td>
<td>Rock images classification using principle component analysis and spatial frequency measurement</td>
<td>T. Kachanubal, S. Udomhunsakul, King Mongkut's Institute of Technology Ladkrabang (Thailand)</td>
</tr>
<tr>
<td>6833 15</td>
<td>An improved fusion algorithm of video sequences based on IR and visible</td>
<td>F. Zhou, W. Cheng, X. Lu, Xi’an Institute of Applied Optics (China)</td>
</tr>
<tr>
<td>6833 16</td>
<td>Implementation of real-time Laplacian pyramid image fusion processing based on FPGA</td>
<td>Y. Song, K. Gao, G. Ni, R. Lu, Beijing Institute of Technology (China)</td>
</tr>
<tr>
<td>6833 17</td>
<td>An image fusion of quincunx sampling lifting scheme and small real-time DSP-based system</td>
<td>Q. Wang, Beijing Institute of Technology (China) and China Ordnance Equipment Group 208 Institute (China); G. Ni, Beijing Institute of Technology (China); B. Chen, China Ordnance Equipment Group 208 Institute (China)</td>
</tr>
<tr>
<td>6833 18</td>
<td>An image segmentation approach based on chaotic ant colony algorithms</td>
<td>Z. Pan, L. Chen, South China Normal Univ. (China)</td>
</tr>
<tr>
<td>6833 19</td>
<td>A hybrid image segmentation algorithm based on edge detection, thresholding, and region growing</td>
<td>Z. Xie, Fujian Normal Univ. (China); G. Chen, Fujian Normal Univ. (China) and Huazhong Univ. of Science and Technology (China); R. Chen, J. Lei, S. Feng, Z. Huang, W. Lin, Fujian Normal Univ. (China)</td>
</tr>
</tbody>
</table>

**SESSION 6 COLOR IMAGE PROCESSING AND CODING**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6833 1B</td>
<td>New color image processing with color filter array for single chip camera</td>
<td>J. J. Wang, R. F. Li, Z. Wang, W. Y. Liu, Tianjin Univ. (China)</td>
</tr>
<tr>
<td>6833 1C</td>
<td>Color image quality metric for realistic image rendition</td>
<td>M. Xiao, S.-Y. Chen, G. Ni, Beijing Institute of Technology (China)</td>
</tr>
<tr>
<td>6833 1D</td>
<td>Color transfer based on steerable pyramid and hot contrast for visible and infrared images</td>
<td>L. Wang, Y. Zhao, W. Jin, S. Shi, Beijing Institute of Technology (China)</td>
</tr>
<tr>
<td>6833 1E</td>
<td>Low-complexity multiple ROI image coding method based on different degrees of interest</td>
<td>L. Zhang, Beijing Normal Univ. (China)</td>
</tr>
<tr>
<td>6833 1G</td>
<td>Fractional Lévy stable motion for modeling speckle image</td>
<td>X. Li, L. Jin, South China Univ. of Technology (China); F. Peng, Huazhong Univ. of Science and Technology (China); A. Zhu, Guangdong Univ. of Technology (China)</td>
</tr>
<tr>
<td>6833 1H</td>
<td>Frame transfer CCD driving circuit design for space camera</td>
<td>X. Chen, J. Zhou, W. Zhou, W. Shen, Suzhou Univ. (China)</td>
</tr>
<tr>
<td>Session</td>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>---------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>6833 1K</td>
<td>Robust non-rigid registration of medical images with incomplete image information using local structure-adaptive block matching method</td>
<td>Z. Zhou, B. Qin, Shanghai Jiao Tong Univ. (China)</td>
</tr>
<tr>
<td>6833 1L</td>
<td>DSP implementation of wavelet image enhancement</td>
<td>W. Bai, B. Zhang, Tianjin Univ. of Technology (China); Q. Bai, Tianjin Institute of Urban Construction (China)</td>
</tr>
<tr>
<td>6833 1M</td>
<td>Point spread function estimation based on wavelet transform for image restoration</td>
<td>X. Chen, Z. Fan, Harbin Institute of Technology (China)</td>
</tr>
<tr>
<td>6833 1N</td>
<td>Proposals to set up the new performance model for thermal imaging systems</td>
<td>K. Ai, Xi'an Institute of Applied Optics (China); L. Zhou, Beijing Institute of Technology (China); X. Li, C. Wang, Xi'an Institute of Applied Optics (China)</td>
</tr>
</tbody>
</table>

**Part Two**

<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>6833 1O</td>
<td>Air touch: new feeling touch-panel interface you don't need to touch using audio input</td>
<td>K. Sakamoto, H. Morimoto, Shimane Univ. (Japan)</td>
</tr>
<tr>
<td>6833 1P</td>
<td>Liquid crystal layer enables to provide virtual display using mirror image of polarized display monitor for extension of screen region</td>
<td>K. Sakamoto, A. Tanaka, Shimane Univ. (Japan)</td>
</tr>
<tr>
<td>6833 1Q</td>
<td>Arenani: pointing and information query system for object beyond your reach</td>
<td>M. Adachi, K. Sakamoto, Shimane Univ. (Japan)</td>
</tr>
<tr>
<td>6833 1R</td>
<td>Deco-video: video editing and viewing browser enables to playback movie contents reproduced by using scene scenario</td>
<td>T. Ishihara, K. Sakamoto, Shimane Univ. (Japan)</td>
</tr>
<tr>
<td>6833 1S</td>
<td>Light path indication system for route guidance in public facilities</td>
<td>H. Fukuda, K. Sakamoto, Shimane Univ. (Japan)</td>
</tr>
<tr>
<td>6833 1T</td>
<td>Handheld route guidance system using projected direction indicator for outdoor usage</td>
<td>K. Sakamoto, K. Uchida, Shimane Univ. (Japan)</td>
</tr>
<tr>
<td>6833 1U</td>
<td>Multiframe blind deconvolution of atmospheric turbulence-degraded images based on filter</td>
<td>J. Huang, Institute of Optics and Electronics (China) and Graduate School of Chinese Academy of Sciences (China); M. Shen, Q. Li, Institute of Optics and Electronics (China)</td>
</tr>
<tr>
<td>6833 1W</td>
<td>The research of smearing elimination of remote sensing images</td>
<td>Y. Chen, W. Zhou, W. Shen, Soochow Univ. (China)</td>
</tr>
</tbody>
</table>
6833 1X  **Research of x-ray nondestructive detector for high-speed running conveyor belt with steel wire ropes** [6833-25]
J. Wang, C. Miao, W. Wang, X. Lu, Tianjin Polytechnic Univ. (China)

6833 1Y  **Online maintaining appearance model using particle filter** [6833-28]
S. Chen, T. Lan, Beijing Institute of Technology (China); J. Wang, Institute of Computing Technology (China); G. Ni, Beijing Institute of Technology (China)

6833 1Z  **Image segmentation based on double-level parallelized firing PCNN in complex environments** [6833-30]
B. Jiang, Z. Peng, J. Xiao, H. Wang, Univ. of Electronic Science and Technology of China (China)

6833 20  **Robust adaptive non-rigid image registration based on joint salient point sets in the presence of tumor-like gross outliers** [6833-32]
B. Qin, Z. Gu, Shanghai Jiao Tong Univ. (China)

6833 21  **Video surveillance system based on MPEG-4** [6833-33]
J. Ge, G. Zhang, Z. Yang, Huazhong Normal Univ. (China)

6833 22  **IFS-based image geometry transform** [6833-34]
Z. Zhang, X. Xiong, Z. Xia, Yangtze Univ. (China)

6833 23  **Analysis of images in dielectric electric discharge** [6833-35]
Y. He, L. Dong, H. Yue, W. Fan, H. Zhao, L. Yang, Hebei Univ. (China)

6833 24  **Research on adaptive Kalman filtering based on interacting multiple model** [6833-36]
Y. Zhang, Institute of Optics and Electronics (China) and Graduate School of the Chinese Academy of Sciences (China); Q. Wu, Institute of Optics and Electronics (China)

6833 26  **Medical image compression based on subband information statistic model** [6833-39]
L. Zhang, Beijing Normal Univ. (China)

6833 27  **An ROI-codec-supported rate control algorithm in video compression** [6833-41]
Z. Li, S. Jin, China Jiliang Univ. (China)

6833 28  **A symbol-map wavelet zero-tree image coding algorithm** [6833-43]
X. Wang, Tianjin Univ. (China) and Shenzhen Univ. (China); W. Liu, Tianjin Univ. (China); X. Peng, X. Liu, Tianjin Univ. (China) and Shenzhen Univ. (China)

6833 29  **Development of low light level and wide dynamic range visible nephogram imaging technology** [6833-45]
W. Xu, H. Fan, T. Liu, Donghua Univ. (China); J. Wei, D. Weng, Shanghai Institute of Technical Physics (China)

6833 2A  **Fast content-based image retrieval using dynamic cluster tree** [6833-46]
J. Chen, J. Sun, R. Wu, Y. Zhang, Tianjin Univ. (China)
2B A robust approach for detecting infrared small dim targets [6833-49]
Y. Yong, Univ. of Electronic Science and Technology of China (China); X. Yang, B. Wang, Chongqing Military Deputy Bureau (China); Z. Peng, Univ. of Electronic Science and Technology of China (China)

2C A method of improving the accuracy of sub-pixel localization in digital image measurement [6833-50]
J. Zhang, Institute of Optics and Electronics (China) and Graduate School of Chinese Academy of Sciences (China); Q. Zhang, Institute of Optics and Electronics (China)

2D Application of a partial differential equation in image processing [6833-53]
H. Wang, Z. Yin, J. Wan, J. Pang, North China Electric Power Univ. (China)

2E Research on on-line grading system for pearl defect based on machine vision [6833-54]
J. Zhou, L. Ma, Hangzhou Dianzi Univ. (China)

2F Video semantics discovery from video captions and comments [6833-56]
R. Wu, J. Sun, J. Chen, H. Wu, Tianjin Univ. (China)

2G Real-time distortion correction for visual inspection systems based on FPGA [6833-57]
D. Liang, Z. Zhang, X. Chen, D. Yu, Tianjin Univ. (China)

2H Fabrication and characterization of large area mercuric iodide polycrystalline films [6833-60]
J. Gui, Huazhong Univ. of Science and Technology (China) and Shenzhen Univ. (China); J. Guo, Q. Yang, X. Liu, H. Niu, Shenzhen Univ. (China)

2I Low-contrast small target image enhancement based on rough set theory [6833-63]
Y. Yong, Univ. of Electronic Science and Technology of China (China); B. Wang, W. Zhang, Chongqing Military Deputy Bureau (China); Z. Peng, Univ. of Electronic Science and Technology of China (China)

2J Research on 3D visualization of fault diagnosis system for photoelectric tracking devices [6833-76]
M. Hou, Institute of Optics and Electronics (China) and Graduate School of the Chinese Academy of Sciences (China); Q. Wu, Institute of Optics and Electronics (China); Y. Liu, Q. Chen, Institute of Optics and Electronics (China) and Graduate School of the Chinese Academy of Sciences (China)

2K Design and implementation of timing generator of frame transfer area-array CCD camera [6833-78]
J. Zhou, X. Chen, W. Zhou, W. Shen, Soochow Univ. (China) and Jiangsu Key Lab. of Modern Optical Technology (China)

2L Research on the measuring technology of minute part's geometrical parameter based on image processing [6833-79]
X. Jia, Z. Xiao, Guilin Univ. of Electronic Technology (China)
Design of intelligent fault diagnosis system for photoelectric tracking devices based on virtual technology [6833-82]
M. Hou, Institute of Optics and Electronics (China) and Graduate School of the Chinese Academy of Sciences (China); Q. Wu, Institute of Optics and Electronics (China); Y. Liu, Q. Chen, Institute of Optics and Electronics (China) and Graduate School of the Chinese Academy of Sciences (China)

A novel median-contourlet for image denoising application [6833-85]
J. He, K. Gao, G. Ni, Beijing Institute of Technology (China)

Protocols conversion in remote controlling for CCD camera [6833-88]
J. Lin, J. Liu, Y. Wang, Beijing Institute of Technology (China); L. Yang, Mintron Enterprise Co. Ltd. (Taiwan)

An ARM-based wavefront processor for adaptive optical system [6833-91]
L. Ma, Institute of Optics and Electronics (China) and Graduate School of Chinese Academy of Sciences (China); S. Chen, Institute of Optics and Electronics (China); Y. Liu, Institute of Optics and Electronics (China) and Graduate School of Chinese Academy of Sciences (China); B. Xu, M. Li, Institute of Optics and Electronics (China)

Image analyzing and processing of the patterns in dielectric barrier discharge [6833-95]
H. Wang, L. Dong, W. Liu, Y. He, Hebei Univ. (China)

A new strategy for object-identification based on its inherent geometrical characteristic [6833-98]
Y. Lin, Y. Xie, Tianjin Univ. (China); Y. Cui, Hebei Univ. of Science and Technology (China); Y. Huang, Tianjin Univ. (China)

Algorithm for fractional multiple image enlargement based on all phase DCT [6833-100]
Y. He, Z. Hou, C. Wang, Tianjin Univ. (China)

A study of computer vision for ground surface roughness evaluation [6833-109]
X. Liu, C. Wu, L. Wang, L. Liu, P. Wang, Harbin Univ. of Science and Technology (China)

Monitoring vegetation phenology using improved MODIS products [6833-111]
Y. Shuai, Beijing Normal Univ. (China) and Boston Univ. (USA); C. B. Schaaf, A. H. Strahler, Boston Univ. (USA); X. Li, Beijing Normal Univ. (China) and Boston Univ. (USA); F. Gao, NASA Goddard Space Flight Ctr. (USA); J. Liu, National Oceanic and Atmospheric Administration (USA); R. E. Wolfe, NASA Goddard Space Flight Ctr. (USA); J. Wang, Beijing Normal Univ. (China); X. Zhang, National Oceanic and Atmospheric Administration (USA); Q. Zhu, Beijing Normal Univ. (China)

3D structure recovery from uncalibrated image sequence [6833-114]
D. Fu, J. Zhou, L. Li, H. Zhang, Q. Yu, National Univ. of Defense Technology (China)

Hyperion true color images mosaic [6833-116]
L. Jiang, X. Chen, G. Ni, D. Xu, H. Li, Beijing Institute of Technology (China)

An image fusion method based on biorthogonal wavelet [6833-121]
J. Li, J. Yu, Shanghai Institute of Technical Physics (China) and Graduate Univ. of Chinese Academy of Sciences (China); S. Sun, Shanghai Institute of Technical Physics (China)
Comparison and research of spectral response characteristic of transmission-mode GaAs photocathode before and after indium seal [6833-126]
Y. Du, Y. Ji, Univ. of Bingzhou (China); X. Du, Chongqing Univ. (China)

Study of lip-reading detecting and locating technique [6833-127]
L. Wang, J. Li, Changchun Univ. (China); Y. Zhao, Changchun Univ. of Technology (China)

Study on defect detection of IC wafer based on morphology [6833-131]
A. Hou, W. Zhou, G. Cui, D. Shi, K. Xu, L. Zhang, J. Liu, Changchun Univ. of Technology (China)

Study on multi-description coding for ROI medical image based on EBCOT [6833-132]
A. Hou, L. Zhang, D. Shi, G. Cui, K. Xu, W. Zhou, J. Liu, Changchun Univ. of Technology (China)

Image retrieval using color and edge histograms [6833-133]
D. Shi, L. Xu, Q. Wang, Changchun Univ. of Technology (China)

Research of image recognition in embedded system based on TM1300 [6833-134]
X. Feng, C. Chang, Wuhan Institute of Technology (China)

Driving techniques for high frame rate CCD camera [6833-140]
W. Guo, Changchun Institute of Optics, Fine Mechanics and Physics (China) and Graduate School of the Chinese Academy of Sciences (China); L. Jin, Graduate School of the Chinese Academy of Sciences (China); J. Xiong, Changchun Institute of Optics, Fine Mechanics and Physics (China)

Study of image processing system based on parallel structure of multiple DSPs [6833-143]
J. Song, Institute of Optics and Electronics (China) and Graduate Univ. of the Chinese Academy of Sciences (China); Q. Wu, Graduate Univ. of the Chinese Academy of Sciences (China)

Fluvial particle characterization using artificial neural network and spectral image processing [6833-149]
B. P. Shrestha, B. Gautam, Kathmandu Univ. (Nepal); M. Nagata, Univ. of Miyazaki (Japan)

Computational analysis of Pelton bucket tip erosion using digital image processing [6833-150]
B. P. Shrestha, B. Gautam, Kathmandu Univ. (Nepal); T. R. Bajracharya, Tribhuwan Univ. (Nepal)

Author Index
Symposium Committees

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   Yangqiu Li, Beijing Institute of Technology (China)

2. Image Processing I
   Xiang Peng, Shenzhen University (China) and Tianjin University (China)

3. Image Processing II
   Kecong Ai, Xi'an Institute of Applied Optics (China)

4. Target Detection and Image Registration
   Yangqiu Li, Beijing Institute of Technology (China)

5. Image Recognition and Fusion
   Xiang Peng, Shenzhen University (China) and Tianjin University (China)

6. Color Image Processing and Coding
   Kecong Ai, Xi'an Institute of Applied Optics (China)
Introduction

Eleven years ago, in 1996, the Conference on Electronic Imaging and Multimedia Systems was added to Photonics Asia Symposium, which is sponsored by the Chinese Optical Society and SPIE. The purpose of this new conference was to provide a forum where participants could disseminate and exchange ideas and present up-to-date comprehensive assessments of progress and developments in the field of electronic imaging and multimedia systems. To this end, it is very gratifying to us that we have been assembled here five times for an informative exchange of opinions.

The Conference on Electronic Imaging and Multimedia Systems focuses on new and exciting topics such as optoelectronic imaging, image analysis, computer vision and pattern recognition, including image acquisition, computer software, algorithms, digital techniques, and applications illustrating the core technologies spanning this increasingly diverse field of research.

Through advances in photonics, optoelectronics, and computing that have taken place during the last 11 years, we found that the electronic imaging and multimedia technologies have created new and interesting technical possibilities in a wide range of fields, such as medicine and healthcare, defense and aerospace, environment, entertainment, commerce, and public safety. This, in turn, has promoted development of technologies necessary for affordable imaging and visualization systems.

Collected in this Volume 6833 of the SPIE proceedings are 103 papers accepted for presentation at the conference. Papers included in these proceedings fall into the following topics: optoelectronic imaging systems; sensors, cameras, and systems for industrial/scientific applications; image quality and system performance; 3D image acquisition and generation techniques; stereoscopic displays and applications; video analysis and processing; image data communication; real-time image processing; visualization and data analysis; visual communications; security and measurement of multimedia content; target detection and tracking; feature extraction, image recognition and classification, image registration and matching, image restoration and segmentation, image fusion, algorithms and systems; machine vision applications; and color imaging processing and applications. These proceedings will no doubt benefit not only the participants of this meeting but also our colleagues engaged in relevant research and development.
In closing, we would like to heartily thank all of the authors for their contributions to the conference and this volume of proceedings, and all of the participants and friends for their interest and efforts in helping us to make this meeting possible.

Liwei Zhou
Chung-Sheng Li
Minerva M. Yeung