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Contents

Part One

xv *Conference Committee*
xvii *Introduction*

IMAGE ACQUISITION AND PROCESSING, PATTERN RECOGNITION, AND COMPUTER VISION IN INDUSTRIAL ENGINEERING

- 7820 02 **Real-time tracking system combining mixture of Gaussian model and CamShift algorithm** [7820-01]
Y. Li, Q. Xie, G. Yu, South-Central Univ. for Nationalities (China)
- 7820 03 **Application of rough set for medical images data mining** [7820-02]
S. Wang, C. Wang, Y. Chen, Xi'an Institute of Posts & Telecommunications (China)
- 7820 04 **Implementation of 2-D DCT based on FPGA** [7820-03]
B.-Z. Guo, L. Niu, Z.-M. Liu, Hebei Univ. (China)
- 7820 05 **A position correction equipment of work-piece in assembly line** [7820-04]
C. Cai, Q. Li, X. Li, Shaanxi Univ. of Science & Technology (China)
- 7820 06 **Traditional Chinese painters and calligraphers' seal surface analysis research based on the evenness** [7820-05]
H. Lou, N. Zhang, Beijing Union Univ. (China)
- 7820 07 **A new license plate extraction framework based on fast mean shift** [7820-06]
L. Pan, S. Li, Shanghai Jiao Tong Univ. (China)
- 7820 08 **Web log mining based on improved FCM clustering algorithm** [7820-07]
Z. Wang, R. Zhou, Inner Mongolia Univ. (China)
- 7820 09 **Change mechanism and change type analysis for SAR images** [7820-08]
S. Q. Huang, Z. G. Liu, Q. M. Zhang, B. Huo, Xi'an Research Institute of High Technology (China)
- 7820 0A **A review of salient region extraction** [7820-09]
H. Bao, Beijing Jiaotong Univ. (China); D. Wang, Beijing Union Univ. (China)
- 7820 0B **Study on the classification algorithm of degree of arteriosclerosis based on fuzzy pattern recognition** [7820-10]
L. Ding, R. Zhou, Inner Mongolia Univ. (China); G. Liu, Affiliated Hospital of Inner Mongolia Medical College (China)
- 7820 0C **On-line print-defect detecting in an incremental subspace learning framework** [7820-11]
X. Sun, B. Chen, L. Zhang, Chengdu Institute of Computer Application (China)

- 7820 0D **Robust watermarking in wavelet domain based on chaotic scrambling** [7820-12]
Y. Wang, Shandong Economic Univ. (China)
- 7820 0E **Animated models coarsening with local area distortion and deformation degree control** [7820-13]
S. Zhang, Y. Wu, J. Zhao, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 7820 0F **Fabric defect detection based on textured characteristics using wavelet transform** [7820-14]
Z. Sun, Z. Liu, X. Wang, Y. Xu, Guangxi Univ. of Technology (China)
- 7820 0G **Edge detection based on multi-scale wavelet** [7820-15]
T. Wu, Y. Duan, B. Liu, South China Univ. of Technology (China)
- 7820 0H **A fast digital image correlation algorithm based on Hartley transform and global sum-table scheme** [7820-16]
J. Huang, Z. Dong, Inner Mongolia Univ. of Technology (China)
- 7820 0I **A new robust region-based ICA-SIFT shape descriptor for object recognition** [7820-17]
Y. Yang, S. Li, Shanghai Jiao Tong Univ. (China)
- 7820 0J **The mathematical morphology of paper's defect detection method based on multi-scale and multi-structure elements morphology** [7820-18]
J. Kang, Shaanxi Univ. of Science & Technology (China); G. Yang, Xi'an Institute of Posts & Telecommunications (China)
- 7820 0K **A novel automatic segmentation of the left ventricle cavity and myocardium in MSCT data** [7820-19]
X. Wang, L. Dong, Y. Huang, Univ. of Science and Technology of China (China); C. Li, Anhui College of Traditional Chinese Medicine (China); H. Feng, Univ. of Science and Technology of China (China)
- 7820 0L **Brain white matter tractography based on Riemannian manifold** [7820-20]
L. Meng, Northeastern Univ. (China) and Cincinnati Children's Hospital (United States); B. Liu, Shenyang Ligong Univ. (China); H. Zhao, D. Zhao, Northeastern Univ. (China)
- 7820 0M **Efficient data association for robot 3D vision-SLAM** [7820-21]
X. Wang, Xi'an Polytechnic Univ. (China); D. Zhu, Xi'an Univ. of Science and Technology (China)
- 7820 0N **Wood adhesion cell segmentation scheme based on GVF-Snake model** [7820-22]
L. Zhao, Y. Ma, Northeast Forestry Univ. (China)
- 7820 0O **Energy analysis of video signal and interference removal** [7820-23]
L. Mo, X. Liu, F. Zhang, Guangxi Univ. (China)
- 7820 0P **Research on location and crawling of work-piece based on binocular vision** [7820-24]
J. Xu, Xi'an Polytechnic Univ. (China); D. Zhu, Xi'an Univ. of Science and Technology (China)
- 7820 0Q **Human location and recognition for intelligent air conditioners** [7820-25]
B. Sun, K. Li, F. Weng, Y. Liu, Shanghai Jiao Tong Univ. (China)

- 7820 OR **Spatial object classification and recognition based on symmetric fuzzy relative entropy** [7820-26]
Y. Shi, J. Chen, M. Sui, Nanjing Forestry Univ. (China)
- 7820 OS **Capture of meaningful faces from motion images** [7820-27]
K. Li, B. Sun, Y. Liu, Shanghai Jiao Tong Univ. (China)
- 7820 OT **Efficient approach for binocular vision-SLAM** [7820-28]
D. Zhu, Xi'an Univ. of Science and Technology (China)
- 7820 OU **Multiple mobile robots real-time visual search algorithm** [7820-29]
C. Yan, Q. Zhan, Beihang Univ. (China)
- 7820 OV **An adaptive enhancement means adapt to CR medicine image** [7820-30]
M.-H. Zhang, Air Force Aviation Univ. (China) and Changchun Institute of Optics, Fine Mechanics and Physics (China); Y.-Y. Zhang, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 7820 OW **An implementation of remote sensing images thematic mapping** [7820-31]
M. Dai, H. Li, Hunan Univ. (China)
- 7820 OX **A two-stage scheme for multi-view human pose estimation** [7820-32]
J. Yan, B. Sun, Y. Liu, Shanghai Jiao Tong Univ. (China)
- 7820 OY **The vehicle license plate location based on mathematical morphology and geometric characteristics** [7820-33]
G. Li, Z. He, Shaanxi Univ. of Science & Technology (China); H. Zhang, Northwestern Polytechnical Univ. (China)
- 7820 OZ **Approach based on visual recognition cylindrical ceramic resistance detection system** [7820-34]
S. Ren, Y. Li, Taiyuan Univ. of Technology (China)
- 7820 10 **Distributed joint power and access control algorithm for secondary spectrum sharing** [7820-35]
H. Li, Henan Univ. of Technology (China); E. Chen, Zhengzhou Univ. (China); H. Fu, Henan Univ. of Technology (China)
- 7820 11 **Research on the testing technology for the water-saving performance of shower nozzle based on image analysis** [7820-36]
P. Lu, R. Li, E. Wu, Tianjin Univ. of Science and Technology (China)
- 7820 12 **3D reconstruction based on a complex constrain matching algorithm** [7820-37]
Q. Li, F. Ma, Beijing Forestry Univ. (China)
- 7820 13 **Measuring of optics surface information with digital image processing technology** [7820-38]
S. Lu, J. Han, W. Liang, W. Zhang, B. Liu, J. Hu, L. Nie, Xi'an Technological Univ. (China)
- 7820 14 **Study on vision object tracking based on adaptive object segmentation** [7820-39]
H.-J. Hao, J.-Y. Xu, G.-Q. Liu, Shandong Computer Science Ctr. (China)

- 7820 15 **Fruit shape classification using Zernike moments** [7820-40]
J. Gui, Zhejiang Sci-Tech Univ. (China) and Zhejiang Univ. (China); W. Zhou, Zhejiang Sci-Tech Univ. (China)
- 7820 16 **Sort entropy-based for the analysis of EEG during anesthesia** [7820-41]
L. Ma, W.-Z. Huang, Tianjin Polytechnic Univ. (China)
- 7820 17 **The image subpixel-precise measurement of holes in mechanical part based on computer vision** [7820-42]
F.-C. You, Y.-B. Zhang, Y. Wang, Beijing Institute of Graphic Communication (China)
- 7820 18 **Morphological color image processing based on improved distance and lexicographical ordering** [7820-43]
H. Tang, H. Huang, Y. Xiao, X. Guo, Xiangtan Univ. (China)
- 7820 19 **Feature matching method in shaped light mode VFD defect detection** [7820-44]
X. Jin, S. Dai, P. Mu, Univ. of Shanghai for Science and Technology (China)
- 7820 1A **Research of spatial high-pass filtering algorithm in particles real-time measurement system** [7820-45]
X. Jin, S. Dai, P. Mu, Univ. of Shanghai for Science and Technology (China)
- 7820 1B **Merging algorithm of vector graphics primitive based on reliability index for engineering drawings** [7820-46]
B. Cheng, Northwestern Polytechnical Univ. (China) and Xi'an Univ. of Architecture & Technology (China); S. Zhang, Y. Shi, Northwestern Polytechnical Univ. (China)
- 7820 1C **Recognition conversion of circular graphic object for engineering drawings: the state of the art and challenges** [7820-47]
B. Cheng, G. Lei, Y. Wang, Xi'an Univ. of Architecture & Technology (China)
- 7820 1D **Framelet lifting in image processing** [7820-48]
D. Lu, Wuhan Univ. (China); T. Feng, Zhengzhou Tourism College (China)
- 7820 1E **3D face detection and face recognition: state of the art and trends** [7820-49]
X. Li, A. Li, X. Bai, Xi'an Hongqing High Technology Institute (China)
- 7820 1F **A new video surveillance system based on AVS** [7820-50]
T. Wu, C. Chen, South China Univ. of Technology (China)
- 7820 1G **Research on smoothing support vector regression based on cubic spline interpolation** [7820-51]
B. Ren, Guangdong Univ. of Technology (China) and Dongguan Univ. of Technology (China); L. Cheng, Guangdong Univ. of Technology (China)
- 7820 1H **3D face recognition for security and defense engineering** [7820-52]
X. Li, A. Li, X. Bai, Xi'an Hongqing High Technology Institute (China)

- 7820 1I **An algorithm for subpixel edge location of circular features based on Zernike moments and moment-preserving** [7820-53]
Q. Tong, X. Zhang, Beijing Jiaotong Univ. (China); Z. Ding, F. Yuan, Harbin Institute of Technology (China)
- 7820 1J **Study on the application of MRF and fuzzy clustering as well as the D-S theory to image segmentation of the human brain** [7820-54]
Y. Guan, B. Guo, R. Duan, A. Mao, Kunming Univ. of Science and Technology (China)
- 7820 1K **A calibration method of monocular stereo vision system for on-machine measurement** [7820-55]
Z. Wang, L. Deng, Xiangfan Univ. (China)
- 7820 1L **A new algorithm for image denoising based on tetrolet transform** [7820-56]
C. Li, J. Sun, National Univ. of Defense Technology (China); Y. Kang, Hai-nan Univ. (China)
- 7820 1M **Generation of geographical profile** [7820-57]
Z.-B. Shen, Y.-B. Zhang, K.-F. Liang, Z.-X. Lu, Jinan Univ. (China)
- 7820 1N **Image deblurring with adaptive total variation model** [7820-58]
Y. Bai, Changchun Institute of Optics, Fine Mechanics and Physics (China) and Graduate School of the Chinese Academy of Sciences (China); Y. Ding, X. Zhang, H. Jia, L. Guo, Changchun Institute of Optics, Fine Mechanics and Physics (China)
- 7820 1O **Application of support vector machine and quantum genetic algorithm in infrared target recognition** [7820-59]
H. Wang, Y. Huang, H. Ding, North Univ. of China (China)
- 7820 1P **A new edge-based interactive image segmentation method** [7820-60]
Q. Chen, Q. Sun, D. Xia, Nanjing Univ. of Science and Technology (China)
- 7820 1Q **Print image sharpness analysis based on gray-level co-occurrence matrices** [7820-61]
L. Zhang, M. Zhang, Y. Wu, Shaanxi Univ. of Science & Technology (China)
- 7820 1R **A fusion method of metallurgical images based on curvelet transform** [7820-62]
W. Wang, Weifang Univ. (China) and Shandong Univ. (China); F. Chang, L. Wang, Shandong Univ. (China)
- 7820 1S **Application of filtering techniques in preprocessing magnetic data** [7820-63]
H. Liu, Liaoning Shihua Univ. (China) and China Univ. of Geosciences (China); Y. Yi, H. Yang, China Univ. of Geosciences (China); G. Hu, G. Liu, The No. 1 Geological Exploration Institute of Henan Province (China)
- 7820 1T **Automatic pipes counting system based on digital image processing technology** [7820-64]
W. Wang, Weifang Univ. (China)
- 7820 1U **Evolutionary extreme learning machine based on dynamic Adaboost ensemble** [7820-65]
G. Wang, Northwestern Polytechnical Univ. (China); P. Li, Liaoning Shihua Univ. (China)
- 7820 1V **Number extraction in document images based on mathematical morphology** [7820-66]
X. Bai, F. Zhou, T. Jin, Z. Liu, Beijing Univ. of Aeronautics and Astronautics (China)

- 7820 1W **Improvement mean shift-based image segmentation approach for automatic agriculture vehicle** [7820-67]
Y. Han, Zhejiang Univ. (China) and Zhejiang Sci-Tech Univ. (China); Y. Wang, Zhejiang Sci-Tech Univ. (China); Y. Zhao, Zhejiang Univ. (China)
- 7820 1X **A surface fractal dimension research of soil-pore interface based on image analysis** [7820-68]
L. Zhu, Y. Li, Hohai Univ. (China); Q. Zhou, East China Investigation and Design Institute (China)
- 7820 1Y **Situation estimation modeling and simulation of aerial optical-electronic sensors** [7820-69]
Z. Shi, Second Artillery Engineering College (China) and Xi'an Institute of Applied Optics (China); H. Liu, Xi'an Institute of Applied Optics (China); D. Zhou, Guizhou Aviation Industry Group (China)

Part Two

- 7820 1Z **An improved fusion of IHS based on wavelet for high resolution images** [7820-70]
Y. Feng, B. Wu, Y. Yue, China Univ. of Geosciences (China)
- 7820 20 **Research and development of synchronous controller in the three-dimensional measurement of a moving object** [7820-71]
J. Chen, G. Zhou, Jiangsu Teachers Univ. of Technology (China); H. Zhang, Jiangsu Univ. of Science and Technology (China); H. Zhang, Jiangsu Teachers Univ. of Technology (China)
- 7820 21 **Assessment method to fusion effect based on structural similarity comparison in fusion images** [7820-72]
Y. Zhang, Beijing Institute of Technology (China) and Shijiazhuang Mechanical Engineering College (China); W. Jin, Beijing Institute of Technology (China); R. Xue, Xian Optical Instrument Factory (China)
- 7820 22 **Photogrammetric measurement of the ASKAP antenna** [7820-73]
Q. Feng, Z. Li, G. Li, Zhengzhou Institute of Surveying and Mapping (China)
- 7820 23 **A CT image matching algorithm based on singular value decomposition** [7820-74]
P. Han, Wuhan Univ. of Technology (China) and Henan Univ. of Technology (China); J. Sun, Henan Univ. of Technology (China); H. Mou, Taiyuan Univ. of Technology (China)
- 7820 24 **Locomotive wheel 3D reconstruction** [7820-75]
X. Guan, Z. Luo, X. Gao, J. Wu, Southwest Jiaotong Univ. (China)
- 7820 25 **The application of pattern recognition in wood processing industry** [7820-76]
Y. Wang, Huaiyin Institute of Technology (China); H. Wang, Dalian Polytechnic Univ. (China)
- 7820 26 **Bundle of paper money recognition based on image entropy** [7820-77]
L. Wang, Y. Wang, H. Zhang, X. Zhao, Hebei Institute of Architecture and Civil Engineering (China)
- 7820 27 **Fast enhanced face-based adaptive skin color model** [7820-78]
C.-C. Hsieh, D.-H. Liou, M.-K. Jiang, Tatung Univ. (Taiwan)

- 7820 28 **A fuzzy binarization method for complicated background document images** [7820-79]
Y. Chao, Shaanxi Univ. of Science & Technology (China) and Nagoya Sangyo Univ. (Japan);
T. Kan, L. He, K. Murakami, Aichi Prefectural Univ. (Japan); W. Tang, Shaanxi Univ. of Science
& Technology (China); Z. Shi, Xi'an Univ. of Science and Technology (China);
T. Nakamura, Q. Yu, Y. Hao, Nagoya Institute of Technology (Japan)
- 7820 29 **An efficient run-based connected-component labeling algorithm for three-dimensional
binary images** [7820-80]
L. He, Shaanxi Univ. of Science & Technology (China) and Aichi Prefectural Univ. (Japan);
Y. Chao, Nagoya Sangyo Univ. (Japan); K. Suzuki, The Univ. of Chicago (United States);
W. Tang, Shaanxi Univ. of Science & Technology (China); Z. Shi, Xi'an Univ. of Technology
(China); T. Nakamura, Nagoya Institute of Technology (Japan)
- 7820 2A **A global registration method for temporal subtraction of chest radiographs** [7820-81]
L. He, Shaanxi Univ. of Science & Technology (China) and Aichi Prefectural Univ. (Japan);
T. Inaba, Aichi Prefectural Univ. (Japan); K. Suzuki, The Univ. of Chicago (United States);
K. Murakami, Aichi Prefectural Univ. (Japan); Y. Chao, Nagoya Sangyo Univ. (Japan);
W. Tang, Shaanxi Univ. of Science & Technology (China); Z. Shi, Xi'an Univ. of Technology
(China); T. Nakamura, Nagoya Institute of Technology (Japan)
- 7820 2B **A substation infrared temperature monitoring and warning system with object separation
and image registration** [7820-82]
L. Lin, D. Wu, Xi'an Univ. of Science and Technology (China); J. Liu, Shaanxi Electric Power
Research Institute (China); X. Zhang, Xi'an Univ. of Science and Technology (China)
- 7820 2C **Globally consistent image mosaicing** [7820-83]
Z. Xu, Changzhou Institute of Technology (China); Y. Zhuang, Changzhou Key Lab. of
Software Technology and Applications (China)
- 7820 2D **Image segmentation based on data field and cloud model** [7820-84]
K. Qin, L. Ou, T. Wu, Wuhan Univ. (China); Y. Du, Communication Network Technology
Management Ctr. (China)
- 7820 2E **A noise filtration technique for fabric defects image using curvelet transform domain filters**
[7820-85]
J. Luo, Tianjin Polytechnic Univ. (China) and Tianjin Univ. of Technology (China); J. Ni, Tianjin
Univ. of Technology (China); S. Lin, Tianjin Area Major Lab. (China); L. Song, Tianjin
Polytechnic Univ. (China)
- 7820 2F **A quick scan and lane recognition algorithm based on positional distribution and edge
features** [7820-86]
J. Wang, Y. Zhang, X. Chen, X. Shi, Northeastern Univ. (China)
- 7820 2G **Region based document image denoising** [7820-87]
Q.-W. Zhou, K. Wang, H.-J. You, Q.-R. Wang, Nankai Univ. (China)
- 7820 2H **Research on the consistency of LVQ classifier** [7820-88]
Q.-W. Zhou, K. Wang, Q.-R. Wang, Nankai Univ. (China)
- 7820 2I **Cryptography based on spatial chaotic system** [7820-89]
F. Sun, Z. Lü, Henan Univ. of Technology (China)

- 7820 2J **An algorithm of multi-structure based on Riemannian manifold learning** [7820-90]
W. Wang, D. Bi, L. Xiong, Univ. of Air Force Engineering (China)
- 7820 2K **Application of pattern recognition in the forecast of outburst area of coal and gas** [7820-91]
T. W. Lan, H. W. Zhang, Y. Chen, X. Ren, Liaoning Technical Univ. (China)
- 7820 2L **Image encryption using spatial chaotic map** [7820-92]
F. Sun, Z. Lü, Henan Univ. of Technology (China)
- 7820 2M **Palm print image processing with PCNN** [7820-93]
J. Yang, X. Zhao, Chang'an Univ. (China)
- 7820 2N **Laser diffraction effect from liquid surface wave** [7820-94]
D. Luo, J. Liu, Shaanxi Univ. of Science & Technology (China)
- 7820 2O **Automatic event detection of abandoned and stolen objects in real-time surveillance**
[7820-95]
W. Wang, Z. Liu, Xidian Univ. (China)
- 7820 2P **Image categorization based on spatial visual vocabulary model** [7820-96]
Y. Wang, C. He, H. Guo, Z. Feng, Q. Jia, Dalian Univ. of Technology (China)
- 7820 2Q **Kernel orthogonal local fisher discrimination for rotor fault diagnosis** [7820-97]
G. Wang, L. Huang, Hunan Univ. of Science and Technology (China)
- 7820 2R **Correct a particular fisheye lens distortion quickly using the coordinate map table** [7820-98]
M. Yang, C. Yang, T. Meng, Ningbo Univ. (China)
- 7820 2S **Coherency estimation based on spectrum Gaussian-Hermite moments** [7820-99]
G. Li, B. Yang, M. Dai, Univ. Michel de Montaigne Bordeaux 3 (France)
- 7820 2T **Construction of panoramic image mosaics based on affine transform and graph cut**
[7820-100]
H. Wang, K. Qin, Tsinghua Univ. (China)
- 7820 2U **A novel diamond search algorithm for fast block motion estimation** [7820-101]
J. Yang, Y. Zhang, L. Huang, D. Guo, Y. Yang, Northwestern Polytechnical Univ. (China)
- 7820 2V **Improving example-based super-resolution via clustering training sets** [7820-102]
Q. Xie, H. Chen, South-Central Univ. for Nationalities (China)
- 7820 2W **Research of ROI image compression based on visual attention model** [7820-103]
Q. Chen, X. Xie, J. Cao, X.-C. Cui, Naval Aeronautical and Astronautical Univ. (China)

GIS, GPS, RS, & WIRELESS AND OPTICAL COMMUNICATIONS IN INDUSTRIAL ENGINEERING

- 7820 2X **Study of urban space buffer's applications on GIS** [7820-104]
H. Bing, P. Ye, Wuhan Univ. (China)
- 7820 2Y **Rotation-invariant texture retrieval by combining log-polar and nonsubsamped contourlet features** [7820-105]
X. Zhu, Z. Shao, Wuhan Univ. (China)
- 7820 2Z **Analysis of four schemes of polarization mode dispersion compensation in a 40Gbit/s optical communication system** [7820-106]
F. Wang, Hebei Normal Univ. of Science and Technology (China) and Yanshan Univ. (China); S. Jia, Handan College (China); Y. Guo, Tianjin Univ. of Technology and Education (China); H. Cheng, X. Chen, H. Jiao, Hebei Normal Univ. of Science and Technology (China)
- 7820 30 **Application of MAPGIS in extracting structure lines from magnetic data** [7820-107]
H. Liu, Liaoning Shihua Univ. (China) and China Univ. of Geosciences (China); Y. Yi, China Univ. of Geosciences (China); G. Hu, G. Liu, The No. 1 Geological Exploration Institute of Henan Province (China)
- 7820 31 **An efficient and provably secure proxy signature scheme** [7820-108]
J. Zhang, X. Liu, S. Gao, North China Univ. of Technology (China)
- 7820 32 **Evaluation and study on PMD performance of OPGW optical cables in wind induced vibration and galloping test environment** [7820-109]
J. Li, Guangdong Power Grid Corp. (China); Z. Zhao, China Electric Power Research Institute (China)
- 7820 33 **Simulation analysis of modulated lidar on optical carrier for target detection in deep ocean** [7820-110]
H. Zhang, J. Rong, T. Li, L. Tian, L. Tang, G. Liang, Univ. of Electronic Science and Technology of China (China)
- 7820 34 **Measuring land subsidence by PALSAR interferometry in Yanzhou coal mine area** [7820-111]
Z. Wang, Shandong Univ. of Science and Technology (China), Chinese Academy of Surveying and Mapping (China), and State Bureau of Surveying and Mapping (China); J. Zhang, G. Liu, Shandong Univ. of Science and Technology (China)
- 7820 35 **Detection of precipitable water vapor during summer rainfall by Nanjing GPS network** [7820-112]
H. Wei, Hohai Univ. (China) and Nanjing Forestry Univ. (China); J. Zheng, X. Shi, Nanjing Forestry Univ. (China)
- 7820 36 **Comparative experiments of road extraction from Google Earth imagery, QuickBird imagery, and IKONOS imagery** [7820-113]
B. Tong, W. Wu, Liaoning Provincial College of Communication (China); C. Jia, Shenyang Golden Land Technology Co., Ltd. (China)
- 7820 37 **Research on the scattering of normal incidence surface of cone** [7820-114]
L. Tang, J. Rong, Univ. of Electronic Science and Technology of China (China); X. Zhong, Southwest Jiaotong Univ. (China); T. Li, G. Liang, L. Tian, H. Zhang, Univ. of Electronic Science and Technology of China (China)

- 7820 38 **New filtering method for GPS/INS integrated navigation** [7820-115]
X. Zhong, T. Song, B. Zheng, T. Zhang, Southwest Jiaotong Univ. (China)
- 7820 39 **An improved distributed routing algorithm for Benes based optical NoC** [7820-116]
J. Zhang, H. Gu, Y. Yang, Xidian Univ. (China)
- 7820 3A **Comparative study on 3D optical network-on-chip architectures** [7820-117]
J. Zhang, H. Gu, Xidian Univ. (China)
- 7820 3B **Analysis of the characteristic of optical communication system influenced by first-order polarization mode dispersion** [7820-118]
F. Wang, Hebei Normal Univ. of Science and Technology (China) and Yanshan Univ. (China); K. Wang, H. Jiao, X. Chen, H. Cheng, L. Feng, Hebei Normal Univ. of Science and Technology (China)
- 7820 3C **A combination strategy for tracking the serial criminal** [7820-119]
C. He, Y.-B. Zhang, J. Wan, W. Yu, Jinan Univ. (China)
- 7820 3D **A study of the environmental information acquisition system based on smart phones** [7820-120]
L. Xu, F. Chen, S. Ni, L. Wang, C. Wei, B. Gong, Beijing Forestry University (China)
- 7820 3E **The rough expression for topological relation of GIS entity based on binary relation** [7820-121]
W. Liao, Guangxi Univ. (China)
- 7820 3F **Studying the space evolution of city block with GIS** [7820-122]
G. Tu, H. Bing, Wuhan Univ. (China)
- 7820 3G **Comparison of Aster and SPOT4 modified soil adjusted vegetation index data over northwestern China** [7820-123]
R. Yu, Institute of Remote Sensing Applications (China) and Guangxi Research Academy of Environmental Protection (China); B. Cai, Q. Wen, Institute of Remote Sensing Applications (China)
- 7820 3H **Study on optical attenuation performance of special stock power optical cable based on a wind induced vibration environment in laboratory** [7820-124]
J. Li, Guangdong Power Grid Corp. (China); Z. Zhao, China Electric Power Research Institute (China)

INDUSTRIAL DECISION SUPPORT AND SIMULATION SYSTEMS, SENSOR TECHNOLOGY, AND INTELLIGENT MONITORING AND CONTROL/ICT APPLICATIONS

- 7820 3I **Research on extension element model of robot** [7820-125]
J. Tian, H. Chen, Henan Univ. of Science and Technology (China)
- 7820 3J **Applied research on extension element model in hydraulic system** [7820-126]
J. Tian, B. Wei, J. Han, Henan Univ. of Science and Technology (China)
- 7820 3K **Application of improved grey prediction in intelligent valve positioner** [7820-127]
Q. Li, X. Luan, Shaanxi Univ. of Science & Technology (China)

- 7820 3L **Centralized robust fusion estimation in estimation of paper basis weight based on norm-bounded parameter uncertain model** [7820-128]
X. Jin, J. Bao, H. Zheng, Zhejiang Sci-Tech Univ. (China)
- 7820 3M **A new method for simplification of discernibility function** [7820-129]
D. Wang, G. Peng, Taishan Univ. (China)
- 7820 3N **The research of distributed interactive simulation based on HLA in coal mine industry inherent safety** [7820-130]
Z. Dou, Yunnan Univ. of Finance and Economics (China)
- 7820 3O **Fuzzy neural network model applied in the mine water inrush prediction** [7820-131]
J. Xiao, China Univ. of Mining and Technology (China) and Huaibei Normal Univ. (China); M. Tong, China Univ. of Mining and Technology (China); Q. Fan, C. Zhu, Huaibei Normal Univ. (China)
- 7820 3P **CT discrimination and image process on damage process of unsaturated compacted loess during triaxial creep** [7820-132]
X. Li, L. Jiang, Y. Tang, Xi'an Univ. of Science and Technology (China)
- 7820 3Q **A mathematical model for dynamic over-load protection based on the heat balance differential equation** [7820-133]
C. Chi, Shanghai Dianji Univ. (China)
- 7820 3R **Study on workshop layout of a motorcycle company based on systematic layout planning (SLP)** [7820-134]
K. Zhou, R. Zhang, Chongqing Univ. of Technology (China); Y. Wang, Chongqing Univ. (China); B. Wang, Chongqing Univ. of Technology (China)
- 7820 3S **Classifying human activities using feature points** [7820-135]
H. Zhang, Z. Liu, Xidian Univ. (China); Q. Wei, Beijing Command College of Chinese People's Armed Police Force (China); H. Zhao, W. Wang, Xidian Univ. (China)
- 7820 3T **String vibration measurement system based on PSD** [7820-136]
J. Sui, Shandong Institute of Business and Technology (China)
- 7820 3U **Extension research on robot external environment** [7820-137]
J. Tian, J. Han, B. Wei, Henan Univ. of Science and Technology (China)
- 7820 3V **Gear faults diagnosis based on wavelet-AR model and PCA** [7820-138]
Z. Li, X. Yan, C. Yuan, Wuhan Univ. of Technology (China); Z. Peng, James Cook Univ. (Australia)

Author Index

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Introduction

The 2010 International Conference on Image Processing and Pattern Recognition in Industrial Engineering (IPPRIE 2010) was launched by Shaanxi University of Science & Technology and Information Technology & Industrial Engineering Research Center. The conference was held 7–8 August 2010 in Xi'an, China, and was the most international of academic conferences of the year in the fields of image processing and pattern recognition. The central aim of the conference was to provide an academic platform to exchange experiences and production for researchers and industrial practitioners in the fields of image processing and pattern recognition.

Information technologies such as image processing, photonics, pattern recognition, GIS, and so on are becoming more and more important for commercial crop and industrial engineering. All commercial crops are potential users for Intelligent Information technology products, and many Intelligent Information technology systems have been applied in industrial engineering. Intelligent information technology provides a powerful means for the transformation of industrial engineering. Many countries have established associations or research centers for information technology in industrial engineering. It is necessary for experts from both developed and developing countries to exchange ideas.

We received 300 submissions from six countries and regions. The papers were reviewed carefully by two famous specialists in this field. After we received the revised papers on the basis of the specialists' advice, we collected 138 papers for these proceedings. In addition to the regular publications of the papers, we invited several specialists and scholars to do a keynote presentation at the IPPRIE 2010 conference.

We would like to take this opportunity to express our thanks to the individuals and organizations for their efforts to serve the IPPRIE 2010 conference. We'd like to extend our thanks to members of academic committee for their effort to the conference; and especially, we'd like to thank to members of organizing committee for their hard work. Finally, we would like to express our appreciation to the conference participants.

Y. D. Shen
Zhenyu Du

