

Contents

xiii	<i>Conference Committee</i>
xv	<i>Introduction</i>

THIRD INTERNATIONAL CONFERENCE ON DIGITAL IMAGE PROCESSING

8009 02	A new watermarking approach based on combination of reversible watermarking and CDMA in spatial and DWT domain [8009-26] S. Bekkouche, A. Chouarfia, Univ. of Science and Technology of Oran (Algeria)
8009 03	Efficient algorithm for salt and pepper noise removal [8009-64] G. M. Kosgiker, Brahmdevdada Mane Institute of Technology Solapur (India)
8009 04	Multifocus image fusion scheme based on nonsubsampling contourlet transform [8009-53] X. Zhou, D. Wang, Z. Duan, D. Li, China Univ. of Geosciences Wuhan (China)
8009 05	A high performance hardware implementation image encryption with AES algorithm [8009-160] A. Farmani, M. Jafari, S. S. Miremadi, Univ. of Tabriz (Iran, Islamic Republic of)
8009 06	Automatic honeycombing detection based on watershed transform [8009-74] Y. Zhu, J. Zhang, W. Dong, Shanghai Institute of Technical Physics (China)
8009 07	Proposed optimization for AdaBoost-based face detection [8009-101] J. Xu, S. Goto, Waseda Univ. (Japan)
8009 08	Neural networks type MLP in the process of identification chosen varieties of maize [8009-71] P. Boniecki, K. Nowakowski, R. Tomczak, Poznan Univ. of Life Sciences (Poland)
8009 09	Cloud base height survey based on stereo image [8009-13] G. Li, China Univ. of Mining and Technology (China), China Univ. of Petroleum (China), and Chinese Academy of Surveying and Mapping (China); Z. Lin, Chinese Academy of Surveying and Mapping (China); S. Ma, Meteorological Observation Ctr. (China); X. Zhi, Chinese Academy of Surveying and Mapping (China)
8009 0A	The face hallucinating two-step framework using hallucinated high-resolution residual [8009-08] H. M. M. Naleer, Beijing Institute of Technology (China) and South Eastern Univ. of Sri Lanka (Sri Lanka); Y. Lu, Y. An, Beijing Institute of Technology (China)
8009 0B	Astronomical image restoration through atmosphere turbulence by lucky imaging [8009-70] S. Zhang, Y. Wu, J. Zhao, J. Wang, Changchun Institute of Optics, Fine Mechanics and Physics (China)

- 8009 0C **Identification process of corn and barley kernel damages using neural image analysis** [8009-163]
K. Nowakowski, P. Boniecki, R. J. Tomczak, B. Raba, Poznan Univ. of Life Sciences (Poland)
- 8009 0D **Fingerprint recognition using image processing** [8009-178]
S. Dholay, A. A. Mishra, Sardar Patel Institute of Technology (India)
- 8009 0E **Image recognition technology based on projection entropy** [8009-47]
D. Tang, Dalian Maritime Univ. (China) and Dalian Neusoft Institute of Information (China);
W. Zhang, Dalian Maritime Univ. (China); C. Wang, M. Jiang, Dalian Neusoft Institute of
Information (China)
- 8009 0F **Automated rice leaf disease detection using color image analysis** [8009-138]
R. A. D. L. Pugoy, V. Y. Mariano, Univ. of the Philippines Los Baños (Philippines)
- 8009 0G **Background subtraction based on nonparametric Bayesian estimation** [8009-146]
Y. He, Zhejiang Univ. (China) and Zhejiang Financial College (China); D. Wang, M. Zhu,
Zhejiang Univ. (China)
- 8009 0H **Development of a patient-specific model for calculation of pulmonary function** [8009-03]
H. Zhong, Henry Ford Health System (United States); M. Ding, Huazhong Univ. of Science and
Technology (China); B. Movsas, I. J. Chetty, Henry Ford Health System (United States)
- 8009 0I **Image decomposition based on modified bidimensional empirical mode decomposition**
[8009-20]
F. B. Arfia, M. B. Messaoud, M. Abid, National Engineering School of Sfax (Tunisia)
- 8009 0J **The level set method for medical image segmentation with a new regularization** [8009-09]
W. Zheng, C. Sun, F. Wang, M. Li, Hebei Univ. (China)
- 8009 0K **3D object recognition using kernel construction of phase wrapped images** [8009-79]
H. Zhang, H. Su, Armstrong Atlantic State Univ. (United States)
- 8009 0L **A feature extraction method brought to visual inspection system for micro-platform**
[8009-32]
H. Li, X. Song, D. Si, H. Xu, Y. Xue, Henan Univ. of Science and Technology (China)
- 8009 0M **Research on the method of kinematical error measurement of the micro-platform** [8009-35]
H. Li, H. Xu, D. Si, X. Song, Y. Xue, Henan Univ. of Science and Technology (China)
- 8009 0N **Analysis of watershed landscape pattern change based on TM images** [8009-125]
C. Li, S. Wang, Y. Zhao, Tianjin Normal Univ. (China)
- 8009 0O **Fire detection combining HSI model and improved codebook model** [8009-136]
X.-Y Yu, M.-Y. Gao, Z.-W. He, Hangzhou Univ. of Electronic Science and Technology (China)
- 8009 0P **Destriping IRS image based on image processing methods** [8009-18]
Q. Chen, Y. Hu, C. Gong, Shanghai Institute of Technical Physics (China); Q. Yin, Shanghai
Ctr. for Satellite Remote Sensing and Application (China)

- 8009 0Q **Successive difference detection based adaptive iterative median filter for image restoration** [8009-133]
D. Balachandran, S. Rangaraj, N. Krishnamoorthy, Delphi Automotive Systems Pvt. Ltd. (India)
- 8009 0R **A case study of learning writing in service-learning through CMC** [8009-102]
Y. Li, L. Ren, X. Liu, Y. Song, J. Wang, J. Li, HeBei Institute of Architecture and Civil Engineering (China)
- 8009 0S **Digital halftoning using a modified pulse-coupled neural network** [8009-153]
H. Duan, G. Chen, South China Univ. of Technology (China)
- 8009 0T **An efficient approach to detected edge of image** [8009-07]
M. Liu, Huaihai Institute of Technology (China); X. Zhang, China Univ. of Mining Technology (China)
- 8009 0U **Transformer fault prediction based on particle swarm optimization and SVM** [8009-131]
Y. Zhang, B. Zhang, Z. Pei, Y. Wang, Xihua Univ. (China)
- 8009 0V **Infrared and visible image fusion using NSCT and GGD** [8009-51]
X. Zhang, Leshan Normal Univ. (China) and Sichuan Univ. (China); C. Liu, Sichuan Univ. (China); T. Men, H. Qin, M. Wang, Leshan Normal Univ. (China)
- 8009 0W **Change detection of lung cancer using image registration and thin-plate spline warping** [8009-134]
D. M. S. Almasslawi, E. Kabir, Tarbiat Modares Univ. (Iran, Islamic Republic of)
- 8009 0X **An efficient and robust 3D mesh compression based on 3D watermarking and wavelet transform** [8009-81]
E. Zagrouba, S. Ben Jabra, Y. Didi, Univ. de la Manouba (Tunisia)
- 8009 0Y **Negative obstacle detection from image sequences** [8009-96]
T. Hu, Y. Nie, T. Wu, H. He, National Univ. of Defense Technology (China)
- 8009 0Z **Binary image authentication based on watermarking algorithm** [8009-159]
B. Masoodifar, Islamic Azad Univ. (Iran, Islamic Republic of); S. M. Hashemi, Shiraz Univ. (Iran, Islamic Republic of); O. Zarei, Isfahan Univ. of Technology (Iran, Islamic Republic of)
- 8009 10 **Iterated denoising and fusion to improve the image quality of wavelet-based coding** [8009-01]
B. Song, Chang'an Univ. (China)
- 8009 11 **Remote sensing image fusion based on M-band dual-tree wavelet transform** [8009-02]
B. Song, Chang'an Univ. (China)
- 8009 12 **Analysis and improvement of SNR using time slicing** [8009-69]
S. Karanam, A. Singh, D. Kumar, A. Choubey, K. Bacchuwar, National Institute of Technology Warangal (India)

- 8009 13 **Geometrical regularization of nonrigid registration using local anisotropic structure and joint saliency map** [8009-46]
J. Zhou, B. Qin, Shanghai Jiao Tong Univ. (China)
- 8009 14 **Zoning types of mountain forest restoration in the upper Min River supported by image auto-recognition system** [8009-143]
Q. Wang, Southwest Univ. of Science and Technology (China); Q. Zou, F. C. Li, Institute of Mountain Hazards and Environment (China) and Graduate School of the Chinese Academy of Sciences (China); C. L. Mu, Sichuan Academy of Forestry (China); Y. Yu, X. Ma, Y. J. Jiang, H. Lu, Southwest Univ. of Science and Technology (China)
- 8009 15 **Face recognition based on color model** [8009-117]
Y. Zhang, D. Huang, H. Guo, F. Gao, Third Research Institute of Ministry of Public Security (China)
- 8009 16 **3D object recognition using line structure** [8009-16]
Z. Lu, Y. Li, J. Wang, P. Chen, F. Chen, North Univ. of China (China)
- 8009 17 **Study on methods of filtering the random noise from GPS CV observed data** [8009-55]
B. Li, Graduate School of the Chinese Academy of Sciences (China); L. Qu, Y. Gao, National Time Service Ctr. (China)
- 8009 18 **Parallel of low-level computer vision algorithms on a multi-DSP system** [8009-84]
H. Liu, P. Jia, L. Li, Y. Yang, Institute of Automation (China)
- 8009 19 **Moving object detection and tracking based on improved Surendra background updating algorithm** [8009-31]
C. Wang, L. Jia, Chongqing Univ. (China); J. Chen, Chongqing Normal Univ. (China)
- 8009 1A **Wavelet transform for skew angle detection in printed Persian documents** [8009-105]
S. Nasrollahi Dizajyekan, A. Ebrahimi, Sahand Univ. of Technology (Iran, Islamic Republic of)
- 8009 1B **Feature extraction from printed Persian sub-words using Haar wavelet transform** [8009-104]
S. Nasrollahi Dizajyekan, A. Ebrahimi, Sahand Univ. of Technology (Iran, Islamic Republic of)
- 8009 1C **Research on the distribution characteristics of secondary geological disasters induced by 5.12 earthquake in Wenchuan county based on RS and GIS** [8009-106]
H. Yu, Y. Luo, Institute of Mountain Hazards and Environment (China); Z.-J. Zheng, Geological Environment Monitoring Station (China); Y.-L. Sun, Y.-W. Ma, Institute of Mountain Hazards and Environment (China)
- 8009 1D **An improved structure propagation based image inpainting** [8009-132]
B. Bai, Z. Miao, Z. Tang, Beijing Jiaotong Univ. (China)
- 8009 1E **Several methods of smoothing motion capture data** [8009-148]
J. Qi, Z. Miao, Z. Wang, S. Zhang, Beijing Jiaotong Univ. (China)
- 8009 1F **Age classification using facial feature extraction on female and male images** [8009-94]
F. Mirzaei, Ö. Toygar, Eastern Mediterranean Univ. (Turkey)

- 8009 1G **A straight line detection method based on chain codes** [8009-164]
F. Li, Arizona State Univ. (United States); G. Li, Sun Yat-sen Univ. (China)
- 8009 1H **Using the Canny edge detector and mathematical morphology operators to detect vegetation patches** [8009-61]
Q. Liu, J. Dong, G. Liu, C. Huang, C. Xie, Institute of Geographic Sciences and Natural Resources Research (China)
- 8009 1I **Some results on preserving K-member simply separable relations in partial K-valued logic** [8009-165]
X. Yang, F. Xu, H. Zhu, Beijing Univ. of Posts and Telecommunications (China)
- 8009 1J **The design of automatic close valve of isolating pollution in situ** [8009-37]
Z. Kou, J. Wu, Taiyuan Univ. of Technology (China)
- 8009 1K **A multilevel regression-analysis-based nonlocal means denoising algorithm** [8009-98]
J. Xu, P. Zheng, China Digital Video Technology Co. Ltd. (China); R. Lv, Communication Univ. of China (China)
- 8009 1L **Effective image annotation based on the diverse density algorithm and keywords correlation** [8009-22]
K. Wang, Henan Polytechnic Univ. (China); Z. Zhang, Jiaozuo Univ. (China)
- 8009 1M **An improved codebook model for detecting moving object under complex dynamic background** [8009-19]
X. Fang, B. He, B. Luo, H. Wu, H. Zhang, Z. Wu, Anhui Univ. (China)
- 8009 1N **Peripheral nerve enhancement based on multi-scale Hessian matrix** [8009-141]
X. Ma, H. Li, X. Zhou, W. Wan, Shanghai Univ. (China)
- 8009 1O **A novel robust digital image watermarking method using SVD and GA** [8009-166]
F. Golshan, Islamic Azad Univ. (Iran, Islamic Republic of); K. Mohammadi, Iran Univ. of Science and Technology (Iran, Islamic Republic of)
- 8009 1P **Driver fatigue recognition based on supervised LPP and MKSVM** [8009-147]
W. Huang, Changsha Aeronautical Vocational and Technical College (China); W. Zhang, Central South Univ. (China)
- 8009 1Q **Estimating smoothness term for BP stereo matching with sparse disparities** [8009-100]
J. He, Z. Li, Lanzhou Univ. of Technology (China)
- 8009 1R **Localization of facial region in digital images** [8009-152]
R. K. Gupta, A. Chowdhury, R. Roy, Birla Institute of Technology and Science (India)
- 8009 1S **Based on linear spectral mixture model (LSMM) unmixing remote sensing image** [8009-128]
J. Liu, W. Cao, Shi Hezi Univ. (China)
- 8009 1T **Complex diffusion and shock filter processes for image enhancement and denoising** [8009-112]
Z. Yan, M. Chen, P. Yang, Sichuan Univ. of Science and Engineering (China)

- 8009 1U **A novel data processing technique for image reconstruction of penumbral imaging** [8009-54]
H. Xie, Institute of Nuclear Physics and Chemistry (China); H. Li, Northwest Institute of Nuclear Technology (China); Z. Xu, Institute of Nuclear Physics and Chemistry (China); G. Song, Northwest Institute of Nuclear Technology (China); F. Zhang, L. Zhou, Institute of Nuclear Physics and Chemistry (China)
- 8009 1V **Discharge light and carbonization distribution characteristics at XLPE-silicon rubber interface with silicon-grease in tracking failure test** [8009-170]
L. Gu, W. Liu, S. L. Lei, S. B. Wang, Y. Y. Deng, Chongqing Univ. of Technology (China)
- 8009 1W **A new framework for the fusion of object and scene based on IHS transform** [8009-14]
Y. Ding, X. Wei, H. Pang, J. Lan, X. Wu, Y. Shi, Shanghai Univ. (China)
- 8009 1X **Multispectral color space representation based on BP neural network** [8009-34]
Q. Liu, X. Wan, C. Teng, Wuhan Univ. (China)
- 8009 1Y **Human multimedia display interface based on human activity recognition** [8009-130]
Y. Shang, E.-J. Lee, Tongmyong Univ. (Korea, Republic of)
- 8009 1Z **A robust and fast super-resolution for license plate in traffic videos** [8009-142]
J. Sun, J. Wu, G. Chen, G. Liu, Changchun Univ. of Science and Technology (China)
- 8009 20 **An information hiding method based on LSB and tent chaotic map** [8009-72]
J. Song, Q. Ding, Heilongjiang Univ. (China)
- 8009 21 **Face recognition using DWT compression and PSO-based DCT feature selection** [8009-23]
Y. Sun, D. Zhou, Henan Univ. of Technology (China)
- 8009 22 **Chinese wine classification system based on micrograph using combination of shape and structure features** [8009-97]
Y. Wan, Sichuan Univ. of Science and Engineering (China)
- 8009 23 **Transmission line galloping image monitoring system based on digital signal processor** [8009-29]
H. P. Ren, Z. F. Ma, Xi'an Univ. of Technology (China)
- 8009 24 **Research of image segmentation based on genetic algorithm** [8009-168]
M. Zhu, Z. Hu, X. Chen, Hebei Normal Univ. of Science & Technology (China)
- 8009 25 **Application to monitoring of tailings dam based on 3D laser scanning technology** [8009-30]
F. Ren, A. Zhang, Capital Normal Univ. (China) and Key Lab. of 3D Information Acquisition and Application (China)
- 8009 26 **Aerial lidar data classification using weighted support vector machines** [8009-76]
J. Wu, N. Guo, R. Liu, L. Liu, G. Xu, Guilin Univ. of Electronic Technology (China)
- 8009 27 **Robust image matching based on wavelet transform and SIFT** [8009-11]
J. Dou, J. Li, Shanghai Jiao Tong Univ. (China) and Key Lab. of System Control and Information Processing (China)

- 8009 28 **Selection of regularization parameter based on synchronous noise in total variation image restoration** [8009-15]
P. Liu, D. Liu, Z. Liu, Ctr. for Earth Observation and Digital Earth (China)
- 8009 29 **A quick algorithm of counting flow accumulation matrix for deriving drainage networks from a DEM** [8009-89]
Y. Wang, Y. Liu, H. Xie, Z. Xiang, Henan Polytechnic Univ. (China)
- 8009 2A **Effect of water on neural-network-based soil image recognizer and classifier** [8009-57]
N. V. Dharwadkar, D. G. Savakar, S. S. Panchal, A. A. Javaji, S. R. Rathod, B.L.D.E.A's College of Engineering and Technology Bijapur (India)
- 8009 2B **A strategy of car detection via sparse dictionary** [8009-27]
G.-Q. Jin, Y.-H. Dong, Naval Univ. of Engineering (China)
- 8009 2C **Warship radar cross section determination and reduction, and hindrances in optimizing radar cross section reduction on warships** [8009-67]
J. Khan, W. Duan, Harbin Engineering Univ. (China)
- 8009 2D **Supervised sparsity preserving projections for face recognition** [8009-48]
Y. Sun, J. Zhao, Y. Hu, Beijing Univ. of Technology (China)
- 8009 2E **Lossless image compression utilizing reference points coding** [8009-58]
Y.-F. Tan, W.-N. Tan, K.-Y. Tan, Multimedia Univ. (Malaysia)
- 8009 2F **Calibration of digital camera IOP using radial alignment constrain and vanish point geometry** [8009-75]
J. Wu, G. Xu, Z. Dong, J. Wang, Guilin Univ. of Electronic Technology (China)
- 8009 2G **Progressive image transmission using pyramid structure and pattern matching coding** [8009-169]
F. Keissarian, Monash Univ. (Malaysia)
- 8009 2H **Random ambience using high fidelity images** [8009-109]
N. A. Abu, S. Sahib, Univ. Teknikal Malaysia Melaka (Malaysia)
- 8009 2I **Application of the digital watermarking technique in 2D barcode certificate anti-counterfeit systems** [8009-40]
M. Chen, S. Lin, Quanzhou Normal Univ. (China)
- 8009 2J **Integrating TPS and level transformation for the mosaic of high-resolution image sequence from civil unmanned aerial vehicle** [8009-77]
J. Wu, Y. Cao, G. Xu, G. He, Guilin Univ. of Electronic Technology (China)
- 8009 2K **Vision-based obstacle recognition system for automated lawn mower robot development** [8009-52]
Z. Mohd Zin, R. Ibrahim, Univ. Kuala Lumpur (Malaysia)
- 8009 2L **Geometric moment based nonlocal-means filter for ultrasound image denoising** [8009-86]
Y. Dou, X. Zhang, M. Ding, Y. Chen, Huazhong Univ. of Science and Technology (China)

- 8009 2M **Fast image matching algorithm based on projection characteristics** [8009-151]
L. Zhou, Changsha Univ. of Science and Technology (China) and Hunan Agricultural Univ. (China); X. Yue, Changsha Univ. of Science and Technology (China); L. Zhou, Hunan Agricultural Univ. (China)
- 8009 2N **Automatic image-based detection of paper fiber ends** [8009-65]
J. Hirvonen, P. Saketi, P. Kallio, Tampere Univ. of Technology (Finland)
- 8009 2O **A vehicle license plate localization method using color barycenters hexagon model** [8009-135]
X. Wan, Nanyang Institute of Technology (China); J. Liu, J. Liu, Southwest Jiaotong Univ. (China)
- 8009 2P **Quantized image patches co-occurrence matrix: a new statistical approach for texture classification using image patch exemplars** [8009-56]
Z. Liu, J. Wang, Y. Li, Y. Zhang, Shanghai Institute of Applied Physics (China); C. Wang, Oregon Health & Science Univ. (United States)
- 8009 2Q **Image super-resolution using the specialized interior-point method** [8009-93]
G. Ren, X. Li, N. Zhou, Univ. of Electronic Science and Technology of China (China)
- 8009 2R **An automatic image mosaic algorithm based on SURF detector** [8009-177]
M. Shao, P. Shi, X. Gu, Q. Liu, Communication Univ. of China (China)
- 8009 2S **An improved video matting technique based on GrabCut** [8009-110]
L. Yang, C. Ma, X. Wu, S. Li, X. Wang, Communication Univ. of China (China)
- 8009 2T **False match elimination for face recognition based on SIFT algorithm** [8009-118]
X. Gu, P. Shi, M. Shao, Communication Univ. of China (China)
- 8009 2U **Characteristic research on Hong Kong "I learned" series computer textbooks** [8009-17]
J. Hu, Henan Institute of Science and Technology (China); Z. Liu, College of Pingdingshan (China); Y. Li, J. Lu, No. 2 Senior Middle School of Pingdingshan (China); L. Zhang, Henan Institute of Science and Technology (China)
- 8009 2V **P-M diffusion for image denoise with the fidelity term** [8009-114]
P. Yang, M. Chen, J. Wang, Sichuan Univ. of Science and Engineering (China)
- 8009 2W **Wavelet video encoder with rate-control algorithm** [8009-171]
Z. Zhao, L. Ma, X. Jin, L. Zhang, Harbin Univ. of Commerce (China)
- 8009 2X **An algorithm for identifying digital image orientation based on c#** [8009-43]
D.-C. Jia, X.-D. Yao, Luoyang Institute of Science and Technology (China); X. Jia, Zhengzhou Univ. (China)
- 8009 2Y **Natural scene text location oriented Chinese environment** [8009-123]
X. Liu, Xi Dian Univ. (China) and Xi'an Univ. of Science and Technology (China); Z. Lu, J. Li, Xi Dian Univ. (China)
- 8009 2Z **A component inspection algorithm based on low-dimensional image feature** [8009-88]
J. Wu, Y. Zhang, Huazhong Univ. of Science and Technology (China)

- 8009 30 **Research on pavement crack recognition methods based on image processing** [8009-172]
Y. Cai, Y. Zhang, Zhengzhou Univ. (China)
- 8009 31 **Tracking and identifying a magnetic spheroid target using unscented particle filter**
[8009-173]
M. Yang, D. Liu, L. Lian, Z. Yu, Naval Univ. of Engineering (China)
- 8009 32 **The analysis of image acquisition in LabVIEW** [8009-174]
W. Xu, L. Zhong, Northwest Univ. (China)
- 8009 33 **Moving object recognition from video sequence images based on wavelet transform and neural network** [8009-38]
K. Zhang, C. Wang, Northeastern Univ. at Qinhuangdao (China)
- 8009 34 **(2D)²PCA+(2D)²LDA: a new feature extraction for face recognition** [8009-90]
G. Huang, Guangdong Univ. of Technology (China)
- 8009 35 **A new method for extracting instantaneous frequency feature of emitter signal** [8009-137]
J. Tan, X. Yan, J. Wang, P. Li, Beijing Institute of Technology (China)
- 8009 36 **The design and implementation of effective face detection and recognition system**
[8009-24]
Y. Sun, Henan Univ. of Technology (China)
- 8009 37 **Image segmentation based on kernel PCA and shape prior** [8009-115]
X. Wan, Univ. of Technology of Compiègne, CNRS (France) and Chongqing Univ. (China);
D. Boukerroui, J.-P. Cocqueruz, Univ. of Technology of Compiègne, CNRS (France)
- 8009 38 **Perimeter intrusion detection based on improved Surendra background update algorithm**
[8009-175]
F. Ding, H. Wang, H. Zhong, L. Yu, Univ. of Electronic Science and Technology of China
(China)
- 8009 39 **Approach of microscopic images mosaic revising based on adjacent image** [8009-39]
H. Wang, Zhejiang Chinese Medical Univ. (China); R. Wang, Taiyuan Univ. of Science and
Technology (China); L. Chen, Shanxi Univ. (China)
- 8009 3A **Discussion about signals and systems teaching** [8009-176]
Z. Guo, Zhejiang Univ. of Science and Technology (China)
- 8009 3B **The design of infrared alarm system based on ZigBee technology** [8009-66]
Q. Yin, H. Yu, X. Shao, Z. Wang, W. Yang, W. Zhang, North Univ. of China (China)
- 8009 3C **Animation of shape-controlled smoke flow** [8009-129]
Y. Zhou, K. Wang, L. He, J. Wang, China Jiliang Univ. (China)
- 8009 3D **Alarm system using pyroelectric infrared sensors for measuring distance and alarming**
[8009-83]
H. Yu, Q. Yin, W. Yang, H. Xian, Q. Sun, J. Liu, North Univ. of China (China)

- 8009 3E **Design and implementation of a wireless video surveillance system based on ARM** [8009-49]
Y. Li, D. Han, J. Yan, North China Univ. of Technology (China)
- 8009 3F **Research of motion estimation algorithm based on H.264** [8009-73]
X. Yao, Linyi Normal Univ. (China)
- 8009 3G **Medical image registration using MLS deformation** [8009-107]
L. Zheng, G. Qian, Zhejiang Univ. (China)
- 8009 3H **The MG/OPT algorithm for dense optical flow** [8009-41]
E. M. Kalmoun, Univ. Utara Malaysia (Malaysia); L. Garrido, Univ. de Barcelona (Spain);
V. Caselles, Univ. Pompeu Fabra (Spain)
- 8009 3I **Algorithm comparison of regional economic resources niche categories** [8009-154]
L. Qi, North China Univ. of Water Resources and Electric Power (China)
- 8009 3J **A new adaptive object detection technique based on the wavelet co-occurrence features**
[8009-04]
K. Ashabi, A. Mahmoodi, E. Vafabakhsh, H. Borji, Malek Ashtar Univ. of Technology (Iran,
Islamic Republic of)
- 8009 3K **LMS filter for noise cancellation using Simulink** [8009-179]
K. T. Talele, A. Shrivastav, K. Utekar, A. Deshpande, Sardar Patel Institute of Technology
(India)

Author Index