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**Yulin Wang
Liansheng Tan
Jianhong Zhou**
Editors

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Contents

xi	<i>Conference Committee</i>
xiii	<i>Introduction</i>
8784 02	A multi-threshold segmentation method based on ant colony algorithm [8784-1] M. Du, Y. Ding, Q. Jia, Beijing Institute of Technology (China)
8784 03	Adaptive model MeanShift tracking [8784-2] D. Wang, Rutgers, The State Univ. of New Jersey (United States); C. Wang, Z. Qu, Harbin Institute of Technology (China)
8784 04	Low-cost micro condition monitoring system based on LabVIEW and SQL server [8784-3] Z. Jia, Y. Guo, Y. Fan, Kunming Univ. of Science and Technology (China)
8784 05	Performance comparison of ISAR imaging method based on time frequency transforms [8784-4] C. Xie, C. Guo, J. Xu, Northwestern Polytechnical Univ. (China)
8784 06	Design and implementation of a secure workflow system based on PKI/PMI [8784-5] K. Yan, C. Jiang, Guizhou Univ. (China)
8784 07	A novel fast algorithm proposed based on Leke's algorithm [8784-6] M. Huang, L. Zheng, X. Zhao, J. Wang, Shandong Univ. (China)
8784 08	Research on private cloud computing based on analysis on typical opensource platform: a case study with Eucalyptus and Wavemaker [8784-7] X. Yu, J. Yuan, S. Chen, Univ. of Shanghai for Science and Technology (China)
8784 09	The study and implementation of the wireless network data security model [8784-8] H. Lin, Nanjing Forestry Univ. (China)
8784 0A	Real-time network security situation visualization and threat assessment based on semi-Markov process [8784-9] J. Chen, Yunnan Nationalities Univ. (China)
8784 0B	Direct calculation method for the maximum of 3D sinusoidal steady-state field vector [8784-10] S. Liu, Z. Wang, X. Liu, North China Electric Power Univ. (China)
8784 0C	Regional electricity consumption based on least squares support vector machine [8784-12] Z. Wang, North China Electric Power Univ. (China) and Yellow River Conservancy Technical Institute (China); Y. Niu, North China Electric Power Univ. (China)
8784 0D	Matrix-based algorithm for 4-Qubit reversible circuits synthesis [8784-13] D. Wang, Henan Univ. (China) and Southeast Univ. (China); S. Sun, Henan Univ. (China); H. Chen, Southeast Univ. (China)

- 8784 OE **A novel fitness evaluation method for evolutionary algorithms** [8784-14]
J. Wang, Nanjing Univ. of Science and Technology (China); K. Tang, Nanjing Univ. of Science and Technology (China) and Zhejiang Univ. (China)
- 8784 OF **A Bayesian model averaging method for improving SMT phrase table** [8784-15]
N. Duan, Tianjin Univ. (China)
- 8784 OG **Minimizing virtual channel buffer for Network-on-Chip** [8784-16]
J. Wang, Y. Li, S. Chai, Q. Peng, Univ. of Electronic Science and Technology of China (China)
- 8784 OH **Multi-objective quantum genetic algorithm in WSNs distribution optimization** [8784-17]
H. Wen, H. Ren, Zhejiang Univ. of Technology (China)
- 8784 OI **Two novel batch scheduling algorithms with insufficient wavelength converters in optical burst switching networks** [8784-18]
S. Huang, H.-F. Pang, L.-X. Li, Chongqing Univ. of Posts and Telecommunications (China)
- 8784 OJ **A possibility-theory-based model for relational databases containing uncertain attribute values** [8784-19]
L. Li, China Institute of Defense Science and Technology (China)
- 8784 OK **Study of item matching algorithm based on bipartite graph joint clustering for technology transaction platform** [8784-21]
M. Zhu, N. Huang, C. Yan, Donghua Univ. (China)
- 8784 OL **A study on learning mechanism for neuron networks with weight-function** [8784-22]
X. Huang, Z. Weng, W. Shi, P. Wang, Fujian Normal Univ. (China)
- 8784 OM **Study on emergency service location problem with continuous edge demands** [8784-23]
Q. Ye, J. Song, J. Cao, Xi'an Research Institute of High Technology (China)
- 8784 ON **Research on BOM based composable modeling method** [8784-24]
M. Zhang, Q. He, J. Gong, National Univ. of Defense Technology (China) and Delft Univ. of Technology (Netherlands)
- 8784 OO **A new integrable couplings of Li soliton hierarchy with self-consistent sources** [8784-25]
H. Shi, S. Tao, Shangqiu Normal Univ. (China)
- 8784 OP **Reducibility of a 1D linear beam equation with a quasi-periodic perturbation** [8784-26]
Y. Wang, Shandong Univ. (China) and Shandong Univ. of Finance and Economics (China)
- 8784 OQ **IEEE802.20 channel model simulation and performance analysis** [8784-32]
T. Yi, Wuhan Institute of Technology (China)
- 8784 OR **The method of narrow-band audio classification based on universal noise background model** [8784-33]
R. Rui, C. Bao, Beijing Univ. of Technology (China)
- 8784 OS **Design and realization of assessment software for DC-bias of transformers** [8784-34]
C. Liu, L. Liu, Z. Yuan, North China Electric Power Univ. (China)

- 8784 OT **Improvement of strong tracking Kalman filter based on fuzzy forgetting factor** [8784-35]
Y. Zhang, Z. Yang, J. Wang, Univ. of Science and Technology Beijing (China)
- 8784 OU **An interface-based anycast routing table summary establishing algorithm** [8784-36]
L. Si, Baoding Electric Power Vocational and Technical College (China)
- 8784 OV **One improved LSB steganography algorithm** [8784-37]
B. Song, Z. Zhang, Zhengzhou Univ. (China)
- 8784 OW **Calculation of spraying distribution fitting of nano-TiO₂ spraying device in all-terrain vehicle** [8784-38]
R. Wang, J. Yu, Northeast Forestry Univ. (China)
- 8784 OX **An optimization algorithm of alternating synchronization sampling based on dynamic sampling interval adjustment** [8784-39]
Y. Mei, T. Chen, Henan Institute of Engineering (China)
- 8784 OY **Design and implementation of small navigation system on land vehicle** [8784-40]
S. Ma, Shaanxi Univ. of Technology (China)
- 8784 OZ **Design of passive filter circuit based on robust optimization** [8784-41]
H. Zhao, G. Chen, Shenyang Ligong Univ. (China)
- 8784 10 **ICA-based UHF RFID multi-tag hybrid data blind separation** [8784-42]
H. Li, H. Wang, Z. Song, Shandong Univ. (China)
- 8784 11 **The design of serial communication in the queue system based on arm** [8784-43]
A. Feng, X. Ge, Q. Wang, Shenyang Univ. of Chemical Technology (China)
- 8784 12 **A symbol-by-symbol decoding algorithm of 3GPP MBMS Raptor** [8784-44]
D. Shi, X. Sun, Z. Yang, L. Niu, Communication Univ. of China (China)
- 8784 13 **A sensor node lossless compression algorithm for non-slowly varying data based on DMD transform** [8784-45]
X. Ren, J. Liu, Engineering College of Chinese Armed Police Force (China)
- 8784 14 **The SMS4 cryptographic system design based on dynamic partial self-reconfiguration technology** [8784-46]
J. Wang, X. Gao, X. Li, Beijing Electronic Science and Technology Institute (China); M. Sui, Beijing Senior Expert Technology Ctr. (China)
- 8784 15 **The wireless data acquisition system based on Bluetooth** [8784-47]
E. Cheng, X. Xu, S. Wu, Xiamen Univ. (China)
- 8784 16 **Research on data communication method in periscope semi-physical training simulation system** [8784-48]
J. Xiao, D. Hu, Naval Univ. of Engineering (China)
- 8784 17 **A sensing duration optimization algorithm in cognitive radio** [8784-49]
Y. Liu, S. Liang, X. Zhang, Communication Training Base of PLAGSD (China)

- 8784 18 **Joint beam design and user selection over non-binary coded MIMO interference channel** [8784-50]
H. Li, H. Yuan, Beijing Univ. of Technology (China)
- 8784 19 **Q-learning-based cross-layer Learning Engine design for cognitive radio network** [8784-51]
C. Liu, H. Jiang, Y. Yang, J. Ma, Southwest Univ. of Science and Technology (China)
- 8784 1A **Research of pore structure with large area using improved octree algorithm** [8784-52]
J. Zhao, S. Luo, S. He, Southeast Univ. (China)
- 8784 1B **Research on network data fusion based on wireless sensor** [8784-53]
K. Zhao, Northwestern Polytechnical Univ. (China) and North China Univ. of Water Resources and Electric Power (China)
- 8784 1C **Clustering based on differential evolution algorithm with weighted validity function** [8784-54]
P. Guo, Z. Zhao, Tianjin Agricultural Univ. (China) and Tianjin Univ. (China)
- 8784 1D **Rapid prototyping and evaluation of programmable SIMD SDR processors in LISA** [8784-55]
T. Chen, H. Liu, B. Zhang, D. Liu, National Univ. of Defense Technology (China)
- 8784 1E **A fast algorithm for attribute reduction based on Trie tree and rough set theory** [8784-56]
F. Hu, Chongqing Univ. of Posts and Telecommunications (China) and Southwest Jiaotong Univ. (China); X. Wang, C. Luo, Chongqing Univ. of Posts and Telecommunications (China)
- 8784 1F **A protect solution for data security in mobile cloud storage** [8784-57]
X. Yu, Q. Wen, Beijing Univ. of Posts and Telecommunications (China)
- 8784 1G **Forecasting of load model based on typical daily load profile and BP neural network** [8784-58]
R. Zhang, G. Qi, C. Li, L. Li, Y. Bao, Y. Zhu, Hunan Univ. (China)
- 8784 1H **Multi-object vehicles detection algorithm based on computer vision** [8784-59]
S. Liang, S. Xu, C. Hao, Nanchang Univ. (China)
- 8784 1I **Self-adaptive fuzzy PID control for three-tank water** [8784-60]
Z. Ke, Dalian Jiaotong Univ. (China)
- 8784 1J **Hybrid ADC based on flash and delay-line structures** [8784-61]
L. Qin, M. Zhao, X. Wu, X. Shen, Zhejiang Univ. (China)
- 8784 1K **Secondary sampling algorithm in harmonic distortion estimation** [8784-62]
C. Ni, Xi'an Univ. of Science and Technology (China); Y. Zhou, Xi'an Modern Control Technologies Research Institute (China)
- 8784 1L **The optimization of random network coding in wireless MESH networks** [8784-64]
C. Pang, X. Pan, North China Electric Power Univ. (China)
- 8784 1M **Recursive algorithm for routing analysis in unidirectional flow networks** [8784-65]
G. Yan, Xuchang Univ. (China); L. Rai, Shandong Univ. of Science and Technology (China); J.-F. Xing, China-Korea Joint Ocean Research Ctr. (China)

- 8784 1N **The design of virtual signal analyzer with high cost performance** [8784-66]
Y. Wang, Huayu Automotive Electric System Co., Ltd. (China); G. Pei, Taishan Polytechnic (China); L. Xu, Shanghai Electrical Apparatus Technology Co., Ltd. (China)
- 8784 1O **An RSSI-based indoor position algorithm for mobile ad hoc network** [8784-67]
C. Li, R. Rao, Shanghai Jiao Tong Univ. (China)
- 8784 1P **A new digital backend in radio astronomy based on under-sampling technology** [8784-68]
L. Dong, M. Wang, Yunnan Astronomical Observatory (China); Z. Bai, L. He, Yunnan Univ. (China)
- 8784 1Q **Synthesized evaluation method for network safety based on Ga-Svc** [8784-69]
H. Song, Northwest Normal Univ. (China)
- 8784 1R **Network safety evaluation based on Pso-Rbf neural network** [8784-70]
H. Song, Northwest Normal Univ. (China)
- 8784 1S **Hardware acceleration based connected component labeling algorithm in real-time ATR system** [8784-71]
F. Zhao, Z. Zhang, National Univ. of Defense Technology (China)
- 8784 1T **Fast and efficient signal reconstruction from structurally sampling partial Fourier data by chaotic dynamical system** [8784-72]
W. Xu, L. Zhang, Shanghai Jiao Tong Univ. (China)
- 8784 1U **Spectrum sensing statistics based-GLRT algorithm in cognitive radio** [8784-73]
Y. Zhou, Beijing Institute of Petrochemical Technology (China); L. Zhang, X. Li, Hunan Agricultural Univ. (China)
- 8784 1V **An improved watershed image segmentation algorithm combining with a new entropy evaluation criterion** [8784-74]
T. Deng, Y. Li, Harbin Engineering Univ. (China)
- 8784 1W **A set-membership approach to blind channel equalization algorithm** [8784-75]
Y. Li, Hunan Urban Construction Vocational Technical College (China)
- 8784 1X **Design and implementation of software defined radio based multi-mode transceiver** [8784-77]
Y. Fang, J. Zhou, Beijing Information Science and Technology Univ. (China)
- 8784 1Y **Reflectivity level of double-bounce rays in rectangle anechoic chamber** [8784-78]
R. Liu, H. Liu, Z. Chen, Q. Lin, Xiamen Univ. (China)
- 8784 1Z **High-speed area-efficient and power-aware multiplier design using approximate compressors along with bottom-up tree topology** [8784-79]
J. Ma, Univ. of Liverpool Univ. (United Kingdom); K. L. Man, N. Zhang, S.-U. Guan, Xi'an Jiaotong-Liverpool Univ. (China); T. T. Jeong, Myongji Univ. (Korea, Republic of)
- 8784 20 **Application of particle swarm optimization in model updating for wire-driven parallel manipulators** [8784-80]
S. Yue, L. Wu, Y. Chen, Q. Lin, Xiamen Univ. (China)

- 8784 21 **A novel control iteration algorithm for a class of nonlinear chaotic systems with state delay** [8784-81]
L. Bing, MCC Capital Engineering and Research Inc., Ltd (China)
- 8784 22 **3D temperature field reconstruction based on the interpolation of 2D acoustic reconstructions** [8784-82]
H. Yan, H. Dou, G. Chen, L. Yao, Shenyang Univ. of Technology (China)
- 8784 23 **Study and implementation of the network management agent of telecommunication application server in NGN** [8784-83]
K. Liu, H. He, Y. Ni, Beijing Normal Univ. (China)
- 8784 24 **Detection and recognition of indoor smoking events** [8784-84]
T.-L. Bien, C.-H. Lin, National Taiwan Univ. of Science and Technology (Taiwan, China)
- 8784 25 **Deformation effect simulation and optimization for double front axle steering mechanism** [8784-85]
J. Wu, S. Zhang, China Automotive Engineering Research Institute Co., Ltd. (China);
Q. Yang, Anhui Hualing Automobile Co., Ltd (China)
- 8784 26 **Dynamic simulation and optimization for batch reactor control profiles** [8784-86]
L. Niu, Honghe Univ. (China); D. Yang, Southwest Jiaotong Univ. (China)
- 8784 27 **Research on service bus of network-centric simulation** [8784-87]
R. Zhang, The PLA Univ. of Science and Technology (China); S.-J. Mao, Science and Technology on Information System Engineer Lab. (China); H.-J. Zhang, Y.-L. Zhang, Y. Zhu, The PLA Univ. of Science and Technology (China)
- 8784 28 **A collaborative computer auditing system under SOA-based conceptual model** [8784-88]
Q. Cong, Z. Huang, J. Hu, Nanjing Audit Univ. (China)
- 8784 29 **Research of toolsetting method for thread cutting on CNC lathe** [8784-90]
Z. Ma, S. Cai, X. Zhao, Lanzhou Univ. of Technology (China)
- 8784 2A **Range-free localization algorithms in wireless sensor networks** [8784-91]
X. Luo, Y. Liu, C. Long, J. Luo, Nanchang Univ. (China)
- 8784 2B **The research of a new adaptive on-demand routing protocol in WSN** [8784-92]
D. Zhu, G. Cui, J. Huang, Z. Zhang, Harbin Institute of Technology (China)
- 8784 2C **Diesel engine air tightness feature recognition based on multi-scale analysis** [8784-93]
X. Song, W. Liu, B. Tan, Shandong Univ. of Technology (China)
- 8784 2D **Oblique projection approach to generating trajectory along arbitrary direction on NURBS surfaces** [8784-95]
X. Chen, G. Hu, Y. Xiong, Wuhan Institute of Technology (China) and Huazhong Univ. of Science and Technology (China)
- 8784 2E **Multimedia software design of automobile construction based on 3D engine** [8784-96]
G. Xu, Southwest Forestry Univ. (China); X. Chi, Kunming Univ. of Science and Technology (China)

- 8784 2F **The full current model of MOV modeling with PSPICE** [8784-97]
Y. Gu, Hezhou Meteorological Bureau (China); Z. Du, Xi'an Jiaotong Univ. (China); W. Yang, Sichuan Zhongguang Lightning Protection Technologies Co., Ltd. (China)
- 8784 2G **Research on target recognition system based on multisensor fusion** [8784-98]
H. Yu, Hunan Univ. of Technology (China); Z. Wang, ZhongShan Torch Polytechnic (China); X. Liu, Zhuzhou Vocational School of Industrial Technology (China)
- 8784 2H **Fault location of underground distribution network based on RBF network optimized by improved PSO algorithm** [8784-99]
S. Tian, M. Zhao, Henan Polytechnic Univ. (China)
- 8784 2I **Intelligent community management system based on the devicenet fieldbus** [8784-100]
Y. Wang, J. Wang, J. Liu, Hebei Institute of Architectural and Civil Engineering (China)
- 8784 2J **Research on inverter test system of synchronous motor using modbus communication** [8784-101]
W. Cao, B. Chen, Y. He, Northwestern Polytechnical Univ. (China)
- 8784 2K **Implementation of PMSM speed control software based on CAN bus** [8784-102]
W. Cao, B. Chen, Y. He, Northwestern Polytechnical Univ. (China)
- 8784 2L **An intelligent diagnosis model based on rough set theory** [8784-103]
Z. Li, Sci-tech Information Institute (China) and Sun Yat-Sen Univ. (China); H.-X. Huang, Y.-L. Zheng, Z.-Y. Wang, Sci-tech Information Institute (China)
- 8784 2M **Improve the throughput of mesh-pull P2P streaming systems** [8784-104]
J. Wu, Y. Peng, F. Liu, National Univ. of Defense Technology (China)
- 8784 2N **On two dominance-based multigranulation rough sets** [8784-105]
Y. Zhai, H. Zhang, Nanjing Univ. of Science and Technology (China)
- 8784 2O **A TDMA based media access control protocol for wireless ad hoc networks** [8784-106]
Q. Yang, B. Tang, Xiamen Univ. (China)
- 8784 2P **Staff line detection and revision algorithm based on subsection projection and correlation algorithm** [8784-107]
Y. Yang, D. Yang, Huaiyin Institute of Technology (China)
- 8784 2Q **A test sheet generating algorithm based on intelligent genetic algorithm and hierarchical planning** [8784-108]
P. Gu, Z. Niu, X. Chen, W. Chen, Beijing Institute of Technology (China)
- 8784 2R **Realization and optimization of AES algorithm on the TMS320DM6446 based on DaVinci technology** [8784-109]
W. Jia, Heilongjiang Univ. (China); F. Xiao, Harbin Engineering Univ. (China)
- 8784 2S **Learning the attribute selection measures for decision tree** [8784-110]
X. Chen, J. Wu, Z. Cai, China Univ. of Geosciences (China)

- 8784 2T **Passive radar tracking of a maneuvering target using variable structure multiple-model algorithm** [8784-111]
Y. Mao, X. Zhou, J. Zhang, Electronic Engineering Institute (China)

Author Index

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Introduction

The organizing committee warmly welcomed our distinguished delegates and guests to the 2012 Fifth International Conference on Machine Vision – (ICMV 2012) held 20–21, October 2012 in Wuhan, China.

The ICMV 2012 is organized by Wuhan University, Huazhong Normal University, Aims University, and Sichuan University, and sponsored by Science and Engineering Institute. The conference was organized to gather members of our international community scientists so that researchers from around the world could present their cutting edge work, expanding our community's knowledge and insight into the significant challenges currently being addressed in that research. The conference program committee was quite diverse and truly international, with membership from the Americas, Europe, Asia, Africa and Oceania.

This proceeding volume contains fully refereed papers presented at the ICMV 2012. The main conference themes and tracks are Machine Vision. The main goal of these events is to provide international scientific forums for exchange of new ideas in a number of fields that interact in-depth through discussions with their peers from around the world. Both inward research, core areas of Machine Vision and outward research, and multidisciplinary, interdisciplinary, and applications were covered during these events. The conference solicited and gathered technical research submissions related to all aspects of major conference themes and tracks. All of the submitted papers in these proceedings have been peer reviewed by the reviewers drawn from the scientific committee, external reviewers, and editorial board depending on the subject matter of the paper. Reviewing and initial selection were undertaken electronically. After the rigorous peer-review process, the submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented as lectures made for an exciting technical program. The conference program was extremely rich, featuring high-impact presentations. The high quality of the program, which was guaranteed by the presence of an unparalleled number of internationally recognized top experts, can be assessed when reading the contents of the program. The conference was therefore a unique event, where attendees were able to appreciate the latest results in their field of expertise, and to acquire additional knowledge in other fields. The program was structured to favor interactions among attendees coming from many diverse horizons, scientifically, geographically, from academia and from industry.

We are grateful to all those who have contributed to the success of ICMV 2012. We would like to thank the program chairs, organizational staff, and the members of the program committees for their work. Thanks also goes to SPIE for their great

support on the proceedings publishing. We hope that all participants and other interested readers benefit scientifically from these proceedings and also find it stimulating in the process.

Finally, we hope that you had a unique, rewarding, and enjoyable week at ICMV 2012 in Wuhan, China.

With our warmest regards,

Yulin Wang