

Content B

Part B Information and Computer Technologies		
Yanfeng Li, Jiquan Ma	A new surface recovery method based on hybrid reflectance model	9
Li Ming	Application of cluster mining and the <i>apriori</i> algorithm in the management of library books	14
Fugeng Zeng, Chunxiang Xu	Attribute-based encryption with hidden threshold access structure	19
Haixia Zhang, Suyi Liu, Yin Cui	Design of intelligent bus control terminal based on ARM9	23
Li Huaming, Kang Baosheng	Real-time physically cloth simulation with CUDA	28
Qijin Cai, Yong Xu	Study on next generation of in-vehicle network protocol for passenger vehicles based on CAN FD	33
Qiao Sun, Feixiang Chen, Hui Han, Fu Xu, Yanan Shi	A novel image segmentation algorithm based on multi-motive reinforcement learning and OTSU	39
Xiaoyong Liu	Data clustering based on particle swarm optimization with Lévy mechanism	45
Xufang Li	Research on WEB user behavior mining of personalized recommendation	50
Min Chen, Ang Li	An error recovery transmission mechanism for mobile multimedia	54
Yonglong Zhuang, Xiaolan Weng, Xianghe Wei	Research on the cloud platform resource management technology for surveillance video analysis	60
JintanZhu, XiangfengLiu, Wei Wei, Peiyi Shen	A continuous integration environment building based on the research of C#.NET	66
Zhaonan Yang, Shu Zhang	Face recognition based on the invariant single training sample	70
Fengsui Wang, Guanling Wang	Fast depth coding techniques using early termination scheme	79
Yanqiao Zhao, Jiubin Tan, Jian Liu	Dynamic optical transfer function: a function to characterize random motion degraded image	85
Fenghua Huang	CityGML-based 3D GIS visualization in the cloud environment	91
Jinguo Zhao, Qingyun Luo, Xin Li, Junbin Liang	Domain unlimited false data filtering scheme in wireless sensor networks	99
Min Chen, Ang Li	Multi-hop routing design based on the asymmetric wireless sensor networks	106
Minghua Jiang, Xiaosuo Luo	The improvement of a variational level set formulation for image segmentation	111
Zheng Yi, Liu Fang	Detecting trap region with assortativity measurement in temporal networks	116
Fang Liu, Yi Zheng	Interaction between propagation and consensus on module networks	122
Shuai Yang, Prashan Premaratne, Peter Vial, Qasim Alshebani	Robust hand gesture detection by fusion of depth and colour information using kinect	127
Bin Liu, Jianghong Han	Research of QoS routing protocol for underwater wireless sensor network	133
Yonghua Zhang	Research of concurrency control protocol based on the main memory database	141
Ma Ning, Zhiyan Wang	A face recognition method of integrated technology	146
Zengyu Cai, Qikun Zhang, Ran Zhang, Yong Gan	Intrusion intention recognition and response based on weighed plan knowledge graph	151
Yanliang Zhang, Geng Li	A general method to solve problem of blind signal separation using tensor decomposition	158
Jin-jin Cai, Bo Liu, Wei Yao	Multi-view object recognition based on sparse representation	163
Wenyi He,Zhuoling Bai, Shiyuan Xu	Review on the technology of network public opinion monitoring system	169
Zhao Sheng, Lu Yiping, Qin Jing	Research on personalized information recommendation platform for CSA users	174
Ying Wang, Xinguang Peng, Jing Bian	A key agreement scheme for identity authentication based on multiple security factors	184
Qing-Ni Yuan, Jian Lu, Haisong Huang, Weiji Pan	Research of batik image classification based on support vector machine	193
Qing Hou, Qingsheng Xie, Shaobo Li	Development and application of lightweight cloud platform workflow system	197
Huijuan Wang, Quanbo Yuan	OPT-UFR algorithm for distributed environment	202
Lei He, Yong Gan, Yifeng Yin	Secure group ownership transfer protocol with independence of old owner for RFID tags	209
Hongyu Zhao, Yan Li, Tao Xu, Weichong Zhang, Yunning Zhao	Based on IPC-610H industrial control computer low voltage self-starting control system of motor group	215
Er-nuan Wang, Chun-yan Zhang, Liang Chen	Evaluation of portal sites for enterprises using normal cloud model	220
Sanshan Du	Study on the LEACH protocol based on hierarchical cluster heads probability	228
Yanming Quan, Qilin Bi	Image collection and processing system for welding pool and proximate seam using multiple image detectors	234
Li Li, Zhou Yan	Image classification method based on improved bag-of-words model	242
Feijiang Huang, Xiaochun Lu, Xiaoyong Li, Wenxi Zhang, Guangcan Liu	Design and verification of GPS IF software analogue signal simulator	247
Liang Zhang, Yuling Liao, Xing Cao, Guodong Hao	Local-structure-based community detection in firm network	253
Lili Xing, Bing Zhang, Yuhong Lu, Zhong Li	A complementary hybrid classification algorithm based on Webtext	258
Liang Zong, Wencai Du, Yong Bai	TCP ADA LR+: Enhanced TCP Scheme for GEO Satellite Networks	264
Guangyu Fan, Wenhong Liu, QiangSun	A fair scheduling for power line communication network	271

Xianquan Zeng	Cloud resource scheduling research based on intelligent computing	277
Chong Dong	A scheme for logistics tracking and monitoring based on internet of things	283
Zhao Xiang, Zheng Hao	Personalized requirements oriented data mining and implementation for college libraries	293
Zhaofeng Li, Xiaoyan Feng, Lanqi Liu	Image segmentation method based on fuzzy Markov random field	301
Bingyi Huang	Research on the management pattern for fragmentation knowledge in organizations under the Web 2.0 environment	307
Suhuan Yi	An improved fuzzy adaptive predictive control method for network control system	313
Yang Zhongguo, Cai Tianfang	Key technology analysis of wireless sensor networks networking	318
Shaoping Zhu	Facial expression recognition based on ASM and Multi-Instance Boosting	323
Weimin Gao, Lizhen Xiao	Research of distributed IDS based on mobile agent and genetic algorithm	333
Li Zhu	An efficient image compression method based on SPIHT algorithm using run-length coding	337
Xiaohong Qiu, Yuting Hu, Bo Li	Task scheduling in multiprocessor systems using inertial velocity differential evolution	343
Xiaohong Zhang, Juanfeng Xiao, Lifeng Dong	Light weight one-time pad RFID bidirectional authentication protocol research	350
Jidong Zhao, Wanjie Zhang, Jingjing Li, Ke Lu	Video-based face recognition using tensor and clustering	357
Na Wang	Data fusion algorithm analysis and realization based on wireless sensor networks	363
Junfang Guo	A cost optimization model and its heuristic algorithm for a content distribution network	369
Lin Xiao, Jun Liang	An improved handoff scheme using SIP for time-shifted service in heterogeneous network	375
Qing Zhang, Caixia Liu, Ganqiang Lu	Active defence technology and its developing trend	383
Zhenghua Xin, Liangyi Hu, Guolong Chen, Qixiang Song, Hong Li	The GPS information acquisition system based on Zigbee	391
Qingfeng Wu, Minwen Wu, Huailin Dong	Research on general foundation platform based on MDA	398
Rui-hong Dong, Qi-chang Shang, Qiu-yu Zhang	Research on small embedding rate of universal steganalysis based on rich model	404
Jing Zhang, Hang Lei	Influence estimation method of network factors in Internetware reliability	411
Qiao Shi	Development of smart home environment based on internet of things technologies	416
Ke Han, Liangong Song	The study on workflow retrieval using knowledge flow mechanism	422
Dan Zhao, ShaoTao	Research and design of multi-robot wireless control system based on ZigBee	428
Mingqing Xing	The differentiation strategy for proprietary software firms when Open Source software appears	432
Luokai Hu, Chao Liang, Ying Lu, Yan Zeng	A defeasible policy based access control approach for semantic web services composition	438
YanJun You	Study on Fidelity evaluation method of visualization simulation	445
Xingliang Li	Computer vision in the exploitation of vehicle contour dimension automatic measurement system of technology and its application	451
Xiliang Yan	Implementation of neotype simple Bayesian algorithm by mapreduce and the application of discreteness and continuity in data mining	454
Lixia Liu	Study and implementation of algorithm for pencil drawing automatic generation based on computer	460
Shuqin Liu, Jinye Peng	Analysis of selecting the optimal threshold in image segmentation based on the evolution of feature field	465
XusenZhu, Zhongcheng Wang, Jiqiang Niu	The research of rural land loss based on data mining technology	469
Peng Wang, Run Sun, Xi Ju, Zhigang Lv	Digital signal processing methods of hammer vibration energy analysis based on FPGA	473
Jing Chen	Optimization of detailed information based on retinex algorithm for image enhancement	478
Na Lu, Caiwu Lu	Spreading mechanism of underground mine fire based on the complex network	483
Changjiu Pu	Image scrambling algorithm based on image block and zigzag transformation	489
Zhaohui Li, Hongxia Yang	Database accessing middleware based on factory pattern and strategy pattern	494
Xiaoming Chen, Yan Liu, Renfa Li	Power constraint communication-aware task scheduling in reconfigurable multiprocessors	500
Yang Wang, Wei Zhang, Hongxing Li	Application of artificial fish swarm algorithm in image registration	510
Lin Tang	Image edge detection based on quantum genetic algorithm	517
XiaoJun Yu	Self-adaptive wavelet threshold denoisingbased on multi-resolution analysis	524
Biao Pan	Application of ant colony mixed algorithm in image enhancement	529
Zhaonan Yang, Shu Zhang, Zeyuan Gu	Multi-focus image fusion based on multi-resolution analysis	535
Junhui Zhou, Jie Liu	Image denoising based on wavelet analysis and quantum-behaved particle swarm optimization	541
Hui Zhou, Shigang Qin	Security framework for cloud data storage based on multi-agent system	548
Pengliu Tan, Sheng Zhang, Yunfeng Nie	An event-oriented real-time architecture for cyber-physical systems	554
Changhong Wu, Haiyan Geng, Tianlin Geng	Optimizing precision of SIFT algorithm in feature extraction of tennis video	559
Jiangyan Sun, Xiaoqiang Jia	Real-time video transmission system based on embedded middle-ware TAO	565

WeiQi Xie, Yuanwen Cai, Long Cheng	Analysis on aerospace software health metrics based on multi-factor reliability growth model	573
Bing Lan, Bingbing Li, Xiang Li	Energy efficient routing protocol of wireless sensor network	580
Xuehua Yang, Hongbin Li	An unbiased crawling strategy for directed social networks	585
Liang Hong, Changyuan Gao	Partner selection of cloud computing federation based on Markov chains	590
Jiangming Kan, Chuandong Zhan, Shuo Feng, Wenbin Li	Estimating fundamental matrix from uncalibrated images	595
Jianjun Chen	Energy-saving mechanism design for 6LOWPAN wireless sensor network	603
Bo Wang	Image processing system based on space transformation	610
Heng-guang Guo, Jun Qu	Wear particle image segmentation using a two-stage strategy	616
XingyuYang, Jinshan Su, Jing Ma, Zhengfang Deng, Jing Jin	Sparse representation of intricate natural image with multi-scale geometric dictionary	623
Bo Gao, Zhiqin Zha	Analysis and study on the association of Website based on named entities of Websites	629
Xuexian Hou, Xinzhi Zhou, Yinjie Lei	An 3D face recognition approach based on facial curve analysis	633
Wanxin Su	Comparison of Kalman and H^∞ filtering algorithm in the integrated navigation system	642
Pirong Yao, Lin Meng	The Grid with golden section	647
Yunjia Niu, Hua Yan	Cloud computing based mountain flood disaster monitoring and forewarning platform	654
Guofan Lu, Qingnian Zhang, Zhao Chen	Telecom Data processing and analysis based on Hadoop	658
Rui Li, Shilong Ma	Research on communication model of IPv6-based intelligent lighting system	665
Jianfeng Hu, Zhendong Mu, Jinghai Yin	EEG-based identification system for mobile devices	672
Shihai Zhu	FPGA-based implementation of task management in $\mu C/OS-II$ operating system	678
Liwei Wei, Hao Yu, Junhua Liu	Data classification using Sparse and Robust model: least squares support vector machine with L1 norm	689
Yi Guo, Qiong Li	A seamless switching system and method for continuous playback of audios	692
Longmin Chen, Fanghua Yan, Zezhi Gong, Yayu Zheng	Image processing strategy used for simulated phosphene map of artificial vision	698
YangBo Li, ZeYu Xu, Dong Sun	Improved image analysis using digital media technology	704
Huan Li, Wenhong Wei, Qinhua Hu, Chun Wang	The adaptive intelligent information processing system	711
Jinghai Yin, Zhendong Mu	Face recognition based on EEG	718
Authors' Index		723
Cumulative Index		724



