2012 International Conference on Audio, Language and Image Processing

(ICALIP 2012)

Shanghai, China
16 – 18 July 2012

Volume 1
Pages 1-593

IEEE Catalog Number: CFP1250D-PRT
ISBN: 978-1-4673-0173-2

Table of Contents

Monday, July 16, 2012

Oral Session I - Image Processing

1 **Local Histogram Modification Based Contrast Enhancement**
Q Y Tian[1], J Duan[2]
[1] *Stanford University, USA*
[2]*Southwestern University of Finance and Economics, Chengdu, China*

7 **Automatic Understanding of Road Signs in Vehicular Active Night Vision System**
O Perry, Y Yitzhaky
Ben-Gurion University of the Negev, Israel

14 **Real Shape Inner Iris Boundary Segmentation Using Active Contour without Edges**
A. Hilal[1], P. Beauseroy[2], B. Daya[2]
[1] *Université de Technologie de Troyes, France*
[2]*IUT, Université Libanaise, Saida, Liban*

20 **Content Based Image Retrieval with Bin of Color Histogram**
V H Vu[1], Q N Huu[2], H N T Thu[2]
[1]*Haiphong University, Hanoi, Vietnam*
[2]*Electric Power University, Hanoi, Vietnam*

26 **Scaling and Rotating Texture Classification Based on JSEG Algorithm**
C C Yao, Y Y Yu
Chaoyang University of Technology, Taichung , Taiwan

33 **High Performance 2-D IDCT for Image/Video Decoding Based on FPGA**
J M Shan, C C Chen, E Y Yang
Shanghai University, Shanghai, China

39 **Hardware Solution of Real-time Depth Estimation Based on Stereo Vision**
H J Li[1,2], G W Teng [1,2] , Z Y Zhang[1,2] , P An[1,2], R Ma[1,2] , J W Wang[1,2] , F Q Wu[1,2]
[1]*Key Laboratory of Advanced Display and System Application Ministry of Education, Shanghai，China*
[2]*Shanghai University, Shanghai, China*

45 **Implementation of Efficient Line Detection with Oriented Hough Transform**
D J Fan, H Bi, L D Wang
National Computer Network Emergency Response Technical Team/Coordination Center of China

49 **Multiple Facade Images Matching for 3D Building Modeling**
Y S Zhang, Z G Zou
School of Geosciences and Info-Physics, Central South University, China

55 **Dangerous Object Recognition for Visual Surveillance**
P Yao[1,2] , Y T Wang[1], C Chen[1], D D Weng[1], Y Liu[1]
[1]*School of Optoelectronics, Beijing Institute of Technology, Beijing, China*
[2]*Science and Technology on Complex Land Systems Simulation Laboratory, Beijing, China*

62 **Integrated Monitoring System for Fall Detection in Elderly**
S. Khawandi[1], B. Daya[2], P. Chauvet[3]
[1]*University of Angers, France*
[2]*Lebanese University, Lebanon*
[3]*Lunam University, France*

68 **Automatic Object Detection and Matching Based on Proposed Signature**
H. A. Elsalamony
Helwan University, Cairo, Egypt

74 Image Compression Technique Utilizing Reference Points Coding with Threshold Values
Y F Tan, W N Tan
Multimedia University, Malaysia.

78 Mutual Information Based Image Registration for MRI and CT SCAN Brain Images.
M.S.Holia[1], V.K. Thakar[2]
[1]*B.V.M Engineering College, Vallabh Vidyanagar, India*
[2]*A.D.Patel Institute of Technology, Vallabh Vidyanagar, India.*

84 Digital Photo Album Compression based on Global Motion Compensation and Intra/Inter Prediction
O Au[1,2] ,S J Li [2],R B Zou[2], W Dai[2], L Sun[2]
[1]*Tongji University, Shanghai, China*
[2]*Hong Kong University of Science and Technology, Hong Kong*

91 An Adaptive Corner Detecting for Real-Time Applications
Y X Xing[1, 2],D Y Zhang[1],J H Zhao[1], F Liu[1]
[1]*Wuhan University, Hubei, China,*
[2]*Wuhan University of Science and Technology, China,*

96 Abnormal Behavior Analysis Using LDA
H X Lu, L Guo, S Gui, J S Xie
Department of Electronic Science and Technology, USTC, Hefei, China

101 Point Correspondence by Matching Scaled Invariants
J Q Qu[1],L G Gong[2],C Huang[3], R Y Fang[3]
[1]*Jilin University, Jilin, China*
[2]*Watson Research Center, IBM, USA*
[3]*Shantou University, Shantou, China*

106 Accurate Face Detection by Combining Multiple Classifiers Using Locally Assembled Histograms of Oriented Gradients
B Han,Y P Luo
Tsinghua University, Beijing, China

112 Navigation Image Matching Based On Two-level Keypoints
Y Wang[1,2]
[1]*Tsinghua National Laboratory for Information Science and Technology, Beijing, China*
[2]*Tsinghua University, Beijing, China*

117 An Improved Method for Color Images Enhancement Considering HVS
O C.Au[1,2] , L Sun[2] , R B Zou[2],W Dai[2], S J Li[2]
[1]*Tongji University, Shanghai, China*
[2]*Hong Kong University of Science and Technology, Hong Kong*

123 Improving Mobile Color 2D-Barcode JPEG Image Readability Using DCT Coefficient Distributions
A K T Tan[1], D Chai[2]
[1]*Knowledge Transfer Office Hong Kong Baptist University Kowloon Tong, Hong Kong*
[2]*School of Engineering Edith Cowan University Joondalup, Australia*

129 Novel Weight Allocation Technique For Image Retrieval Based On Higher Order Colour Moments and CCM Texture Features.
D Jadhav, G Phadke, S Devane
Ramrao Adik Institute of Technology, Mumba, India

134 An Overview of Night Vision Colorization Techniques Using Multispectral Images: From Color Fusion to Color Mapping
Y F Zheng
Alcorn State University, Lorman, MS, USA

144 Super-resolution Reconstruction of Sequence Image Implemented on OMAP3530 Platform
J Li[1], B H Su[1,2], G Y Xu[1], R M Lin[1]
[1]*Ministry of Education of China, Beijing Institute of Technology, China*
[2]*Zhuhai Campus, Beijing Institute of Technology, Zhuhai, China*

149 Secure Group Identity Authentication Based on Non-perfect Secret Sharing Scheme
J Wan[1], Z Y Bai[1], X Bai[2]
[1] *Yunnan University, Beijing, China*
[2]*Beihang University, Beijing, China*

155 Sensor Pattern Noise in JPEG Compressed Images
C Y Shi, Y T Su, J Zhang, J Y Xu
Tianjin University, Tianjing, China

160 Detection of Video Transcoding for Digital Forensics
J Y Xu, Y T Su, X G You
Tianjin University, Tianjing, China

165 Reversible Image Watermarking by Rhombus Prediction and Histogram Modification.
H T Wu[1], J W Huang[1], Y Zhang[2], J You[3]
[1]*Sun Yat-Sen University, Guangzhou, China*
[2]*Harbin Institute of Technology, Harbin, China*
[3] *Hong Kong Polytechnic University, Hong Kong*

170 Research and Realization of Perspective Correction Technology for Document Image
S L Liu, Y M Li, Y P Gao, K Yang
Wenzhou University, China

Oral Session II - Audio and Music Processing

175 A New Digital Audio System Design to Cope with High Audio Scene (HAS) Encoding Technology for All Round Applications
I R W.L.[1], I P W.H.[2]
[1]*The University of Hong Kong, Hong Kong*
[2]*Technology Innovation Ltd. Cable TV Tower, Hong Kong*

182 Phase Compensation for Multichannel Low-Frequency Response Using Minimax Approximation
C S Lin, Y H Chen
National Taiwan University of Science and Technology, Taiwan

189 Circuit Design and Performance Evaluation of High-Voltage Power Amplifier for Flexible Paper Speaker Applications
Y C Chang, C Y Yang, C H Li
National Taiwan University of Science and Technology, Taiwan

194 An Image Mosaic Algorithm Based on Characteristic Point Matching
J Xu[1], X H Yang[2],X X Shao[3,] X Y Meng[3]
[1]*First Hospital of Jilin University, Jilin, China*
[2]*Aviation University of Air Force, Jilin, China*
[3]*ChangChun University of Technology, Jilin, China*

198 Design of Efficient Decompression Algorithm in Helicopter Flight
Y S Bian[1], L D Wu[1], T Y Qu[2], Y Zhang[1]
[1]*The Academy of Equipment, Beijing, China*
[2]*No.65547 Troops, Liaoning, China*

201 An Adaptive Early Termination Algorithm of Fast Mode Decision for Multi-View Video Coding
P Tao[1], G Jiang[1], W Li[2]
[1]*Xidian University,Xi'an, China*
[2]*Xi'an Flight Automatic Control Research Institute, Xi'an, China*

206 Score-Informed Pitch-Wise Alignment Using Score-Driven Non-Negative Matrix Factorization
T M Wang, P Y Tsai, A W.Y. Su
National Cheng-Kung University, Taiwan

212 A New Method for Calibration Depth and Color Camera Pair Based on Kinect
W H Liu, Y Y Fan, Z Zhong, T Lei
Northwestern Polytechnical University, Xi'an, China

218 A Finite-State Entropy-Constrained Vector Quantizer for Audio MDCT Coefficients Coding
S X Jiang, R D Yin, P L Liu
Shanghai Jiao Tong University, Shanghai, China

224 Comprehensive Comparison of the Least Mean Square Algorithm and the Fast Deconvolution Algorithm for Crosstalk Cancellation
D Li, Z H Fu, L Xie, Y N Zhang
Northwestern Polytechnical University,

Xi'an, China

230 Reverberation time estimation based on Multidelay Acoustic echo cancellation
C X Ma, G J Shi
DTS Inc.100 Enterprise Way, Suite C-120, Scotts Valley, CA, USA

235 Time-Dependent Recursive Regularization for Sound Source Separation
T M Wang, T C Chen, Y L Chen, A W.Y. Su
National Cheng-Kung University, Taiwan

241 Multi-theme Analysis of Music Emotion Similarity for Jukebox Application
C Y Lin, S Cheng
National Chiao Tung University, Hsinchu, Taiwan

247 A Module-Integrated Isolated Solar Micro-inverter Without Electrolytic Capacitors
C H Li[1], C Y Yang[1], Y C Chang[1], H J Chiu[1], Y K Lo[1,] C C Chuang[1],S J Cheng[1], M C Kuo[2], Y M Huang[2], Y B Jean[2], Y C Huang[2]
[1]*National Taiwan University of Science and Technology, Taiwan*
[2]*Central Taiwan Science Park, Taichung, Taiwan*

254 Improved Loudspeaker--Room Equalization for Stereo Systems Regarding Channel Similarity
A Bahne, L J Brännmark and A Ahlén
Uppsala University, Sweden

260 Audio Feature Extraction for Classification Using Relative Transformation
G H Wen[1,2], J Tuo[1], L J Jiang[1], J Wei[1]
[1]*South China University of Technology, Guangzhou, China*
[2]*State Key Laboratory of Brain and Cognitive Science, Beijing, China*

266 Adaptive Algorithm for Time Delay Estimation in the Indoor Reverberant Environment
Y Z Fang, Z Y Xu, H Gu
Nanjing University of Science and Technology, Nanjing, China

270 PCA Based on Mutual Information for Acoustic Environment Classification
X L Fan, H H Feng, M Yuan
Shanghai Acoustics Laboratory, Chinese Academy of Sciences, Shanghai, China

276 HHT Based Long Term Feature Extracting Method for Speech Emotion Classification
Z L Wang, H F Li, L Ma
School of Computer Science and Technology, Harbin Institute of Technology, China

282 Radon Transform and DWT based Audio Watermarking Algorithm against DA/AD Conversion
C R Li[1,2,] R M Hu[2], W Zeng[3]
[1] *Hubei University, Hubei, China*
[2] *Wuhan University, China*
[3]*Jiangxi Electric Power Research Institute, Nanchang, China*

287 Comparing Arabic Rhythm Metrics among Other Languages
S A Selouani[1],Y A. Alotaibi[2], L Pan[2]
[1]*Université de Moncton 218 bvd. J.-D.-Gauthier, Shippagan, Canada*
[2]*Sciences, King Saud University, Saudi Arabia*

292 Tracking Articulator Movements Using Orientation Measurements
A Ji, M T. Johnson, J Berry
Marquette University, Milwaukee, USA

297 Effect of Arabic Emphaticness on Voice Onset Time(VOT)
Y A Alotaibi, S S. AlDahri
King Saud University, Riyadh, Saudi Arabia

303 Automatic Assessment of Easiness of Japanese for Writing Aid of "Easy Japanese"
M Zhang, A Ito, K Sato
Tohoku University, Hirosaki University, Japan

308 On an Emotional Node: Modeling Sentiment in Graphs of Action Verbs
M K Petersen, L K Hansen

Technical University of Denmark,Denmark

314 Confidence Measure by Substring Comparison for Automatic Speech Recognition
B Ziółko, T Jadczyk, D Skurzok, M Ziółko
AGH University of Science and Technology, Poland

319 Joint N-gram Chinese Language Modeling with an Application to Chinese Word Segmentation
X He, Z J Ou, J S Sun
Tsinghua University, Beijing, China

324 Subjective and Objective Quality Assessment of Re-sampling Audio
L M Hou, W Q Wu, S Yang, T Yang, X P Zhang
Shanghai University, Shanghai, China

328 A Hierarchy-based Constraint Dependency Grammar Parsing for Chinese
P Li, L J Liao, X Li
Beijing Institute of Technology, Beijing, China

333 Distinguishing Infant Cry from Adult Voice Based on Spectrum Analysis
X Wei, Y X Li, L Zhong, J B Liang
South China University of Technology, Guangzhou, China

Poster Session I - Image Processing and Multimedia SOC Design

337 Segmentation Algorithm of High Resolution Remote Sensing Images Based on LBP and Statistical Region Merging
B Luo, J Cheng
University of Electronic Science and Technology of China, Sichuan, China

342 Texture Synthesis Based on Wavelet Transform
W Xiong, X Z Wang*, L C Gao
Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

346 An Improved Subdivision Algorithm Using for Heart Model
J H Li, X L Ma *, F Zhou, J B Li
Shanghai University, China;
Institute of Smart City, Shanghai University, China;
Shanghai HanPan Information S&T Ltd, Shanghai, China

351 Unequal Error Protection Transmission Scheme for 3D Meshes Based on EWF
L F Li, R Wang*, W G Wan, S Yu, L F Du, J Hu
Shanghai University, Shanghai, China;
Institute of Smart City, Shanghai University, Shanghai, China;
Shanghai HanPan Information S&T Ltd, Shanghai, China

356 Local Subdivision on Triangle Mesh
Y Y Jia, X Z Wang*, X L Ma, J B Li, X L Zhou
Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

360 Filtered Back Projection Reconstruction Research Based on Gaussian in PET Images
M Yang, P M Yan, H Huang, J F Li
Shanghai University, Shanghai, China

365 Image Segmentation by Sparse Representation
Y Wang, X Y Wang, C Gan，C K Wan
Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

370 Scanning Text Image Radial Calibration Technology Research
K Yang , Y M Li , Y P Gao, S L Liu
Wenzhou University(south), China

375 A Contourlet-based Image Super-resolution Approach
T Zhang [1], X Y Yu[2]
[1]*Guiyang University, Guiyang, China*

[2]*South China University of Technology, Guangzhou, China*

379 Human Motion Segmentation by RPCA with Augmented Lagrange Multiplier
C Gan, X Y Wang*, Y Wang
Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

384 Model Optimization by Loop and Linear Subdivision
Y Y Jia, X Z Wang*, X L Ma, J B Li, X L Zhou
Shanghai University, Shanghai, China
Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

388 The Research of Security Algorithms for RF Tag
W L Yu, S H Weng, Q L Ke
School of Information Science And Technology, Beijing Institute of Technology, China

392 Design of Test Platform for 3D Graphics Pipeline Based on Microblaze
F Guo[1,2,3,4], W G Wan[1,3], X M Zhang[1,3,4], X L Zhou[1,3,4]
[1] *Shanghai University, Shanghai, China*
[2] *Linyi University, Linyi, China*
[3]*Institute of Smart City, Shanghai University, China*
[4]*Shanghai HanPan Information S&T Ltd, Shanghai, China*

397 High Efficient Logarithm Convertor for Graphics Physics Simulation
L C Gao, M Y Zhu, J W He and W Xiong
Shanghai University, Shanghai, China;
Institute of Smart City, Shanghai University, Shanghai, China;
Shanghai HanPan Information S&T Ltd, Shanghai, China

403 The 3D Holographic Projection Technology Based on Three-dimensional Computer Graphics
W Y Li
Shanghai JianQiao College，Shanghai, China

Tuesday, July 17, 2012

Oral Session III - Language and Speech Processing Image Processing

407 Spectral Local Harmonicity Feature for Voice Activity Detection Pham Chau Khoa, Chng Eng Siong
P C Khoa, C E Siong
Nanyang Technological University, Singapore

414 SVM Speaker Verification Based on NAP Sequence Kernels
H J Li, Y J Xing, P Tan
Gansu Lianhe University, Lanzhou, China

419 Detecting Offensive User Video Blogs: An Adaptive Keyword Spotting Approach
M. S. Barakat, C. H. Ritz, D. A. Stirling
University of Wollongong, NSW, Australia

426 The Effect of Arabic Emphaticness on Voice Time Onset (VOT)
S. S. AlDahri
King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia

432 GMM-UBM for Text-Dependent Speaker Recognition
W L Chen[1], Q Y Hong[2], X M Li[1]
[1]*Xiamen University, China,*
[2]*Fujian Key Laboratory of the Brain-like Intelligent Systems (Xiamen University), China*

436 Syllable Category Based Short Utterance Speaker Recognition
N Fatima, T F Zheng
Tsinghua University, Beijing, China

442 Generating Emphasis from Neutral Speech Using Hierarchical Perturbation Model by Decision Tree and Support Vector Machine
F B Meng[1], Z Y Wu[1,2,3], H L Meng[2,3], J Jia[1,3] , L H Cai[1,3]
[1]*Tsinghua University, Beijing, China*
[2]*The Chinese University of Hong Kong, China*
[3]*Graduate School at Shenzhen, Tsinghua University, China*

449 Adapted Language Modeling for Recognition of Retelling Story in Language Learning
M Chen, Y Song, L Wang
Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China
The Chinese University of Hong Kong, Hong Kong

454 Straight Model for Voice Conversion Based on Acoustical Universal Structure
G Xu, Q Zhou, D Zhao, D Huang
Electrical & Electronic Engineering School, NCEPU, China

459 Mel Domain Objective Speech Quality Evaluation Measure Performance
W L Zhan, Z L Shen
Hunan International Economics University, Changsha, China

465 A New Image Denoising Algorithm Based on Nonsubsampled Contourlet Transform
H H Song, J Gu
The MPS Quality Supervision and Testing Center of Security Products for Computer Information System, Shanghai, China

469 Combination of Curvelet Threshold with Bilateral Filtering for Image Denoising
G J Liu，W T Ma1b，Y M Ma
Ningxia University, Yinchuan, China

475 Image Fusion Using Adaptive Dual-Tree Discrete Wavelet Packets Based on the Noise Distribution Estimation
F Liu[1], B Yang [2],K G Li[1]
[1]*Beijing university of technology, Beijing, China,*
[2]*North China University of Technology, Beijing, China*

480 A Color Interpolation Scheme Based on Improved Bilinear Schemefor Bayer CFA Digital Cameras
H Ren[1], L Xie[1,2], H F Chen[1,2]
[1] *Zhejiang University, Zhejiang, China*
[2]*Zhejiang Provincial Key Laboratory of Information, China*

485 A Blind Image Restoration Algorithm Based on Nonlocal Means and EM Algorithm
C Dong, M H Xie
National University of Defense Technology, Hunan, China

490 A Super Resolution Reconstruction Scheme for Mixed Spatio-Temporal Stereo Video
B Y Zhang[1], J Liu[1], J Ge[1], C B Chen[1], H Yuan[1], W Liu[2]
[1]*Shandong University, Jinan, China*
[2]*Hisense State Key Laboratory of Digital Multi-Media Technology Corp., Ltd., Qingdao, China*

497 A New Image Deblurring Method Based on Fractional Differential
W Wang, P Z Lu
Fudan University, Shanghai, China

502 Bayesian Nonlocal Means Image Denoising Based on Principal Neighborhood Dictionaries
H H Lu
Xidian University, Xi'an, China.

508 Removing Illumination from Image Pair for Stereo Matching
Y W Han, G X Xuan, C Y Li, D Y Li, H Han
Chongqing Communication Institute, Chongqing, China

513 Alleviating Blocking Artifacts via Curve-Fitting
C Y Xu[1,2], R J He[1,2], S H Mei[1,2], M Y He[1,2]
[1]*Shaanxi Provincial Key Laboratory of Information Acquisition and Processing, China*
[2]*Northwestern Polytechnical University, Xi'an, China*

519 Video Abnormal Target Description Based on CRF Model
L Zhao, L Guo, J S Xie , H Liu
University of Science and Technology of China, Hefei, China

525 Three-dimensional Reconstruction of Slice Image Based on Range-gated Active Laser Imaging Technique
L Du, Y C Li, H C Guo, Y C Fan
The Academy of Equipment, Beijing, China

531 An Automatic Image and Video Colorization Algorithm based on Pattern Continuity
Z Zhong, Y Gui, L Z Ma
Shanghai Jiao Tong University, Shanghai, China

537 A Method of Extracting Skeleton based on FMM
X Q Pan
Zhejiang Industry & Trade Vocational College, Wenzhou, China

541 A Novel 2D-to-3D Conversion Method Based on Blocks World
P Ji[1, 2], L H Wang[1,2], D X Li[1, 2],M Zhang[1, 2]
[1]*Zhejiang University, Hangzhou, China*
[2]*Zhejiang Provincial Key Laboratory of Information Network Technology, China*

546 An Automatic 2D to 3D Conversion Algorithm Using Multi-depth Cues
P Ji[1, 2], L H Wang[1,2], D X Li[1, 2], M Zhang[1, 2]
[1] *Zhejiang University, Hangzhou, China*
[2]*Zhejiang Provincial Key Laboratory of Information Network Technology, China*

551 Image Classification by Exploiting the Spatial Context Information
Y Song[1], L R Dai[1], L Yu[2]
[1]*University of Science and Technology of China, China*
[2] *Hefei TV Station, Hefei, China*

557 Hybrid Stereo Matching by Dynamic Programming with Enhanced Cost Entry for Real-time Depth Generation
Q Q Yang[1,2], L H Wang[1,2], D X Li[1,2], M Zhang[1,2]

[1]*Zhejiang University, Zhejiang, China*
[2]*Zhejiang Provincial Key Laboratory of Information Network Technology, China*

564 Abnormal Object Representation Based on Surprise Model
J S Xie, L Guo, L Zhao, S Gui
University of Science and Technology of China, Hefei, China

569 Contour Detection Based on Semi-Ellipticity-Ring Surround Suppression
Y Dou, Y Yu
Yanshan University, Qinhuangdao, China

574 Comparative Analysis and Evaluation of Geometric Transformations on Distortions for Image Rectification
L H Liew[1],Y C Wang[1], W S Cheah[2]
[1]*Universiti Teknologi MARA, Malaysia*
[2]*Universiti Malaysia Sarawak, Malaysia*

580 Digital Outcrop Modeling and Geology Information Extraction based on ground-based Lidar
Q H Zeng, X Xie, Y Y Zhang, Y Ye, Y Hu, S Liu
Research Institute of Petroleum Exploration and Development, PetroChina, Beijing, China

584 Localization in NLOS Environment Using TOA/DOA/DOD
L P Du, L L Kang, Y Lv
University of Science and Technology Beijing , China

588 DOA Estimation for Wideband Signals via the Homotopy Approach
N Hu[1,2], Z F Ye[1,2], X Xu[1,2]
[1]*University of Science and Technology of China, China*
[2]*National Engineering Laboratory for Speech and Language Information Processing, China*

594 Accuracy Improvement Method of Forest Height Estimation for PolInSAR Image
N P Minh, B Zou
Harbin Institute of Technology, China

599 Integrating Segmentation and Classification Accuracy for Accuracy Assessment in Object-based Image Analysis
N Li, H Huo, T Fang
Shanghai Jiao Tong University, Shanghai, China
Key Laboratory of System Control and Information Processing, Ministry of Education, Shanghai, China

605 On Hyperspectral Remotely Sensed Image Classification Based on MNF and AdaBoosting
Y M Xu[1], P Yu[2], B F Guo[1], X J Gao[1], Y F Guo[1]
[1] *Hangzhou Dianzi University, China*
[2]*Chinese Academy of Sciences, Changchun, China*

610 Unsupervised Hyperspectral Image Classification Algorithm by Integrating Spatial-Spectral Information
B Baassou[1,2], M Y He[1,2], S H Mei[1,2], Y F Zhang[1,2]
[1]*Shaanxi Provincial Key Laboratory of Information Acquisition and Processing (IAP), China*
[2]*Northwestern Polytechnical University, Xi'an, China*

616 Experimental Study on Rationality of 'Hilbert Envelope' Based on Empirical Mode Decomposition
Q L Meng [1,2], M Yuan[1], J P Zhao[1,2], H H Feng[1]
[1]*Shanghai Acoustics Laboratory, Chinese Academy of Sciences, Shanghai, China*
[2]*Graduate University of Chinese Academy of Sciences, China*

621 Real-Time 3DTV System for Autostereoscopic Displays
S J Yao[1, 2], P F Jin[1, 2], H Fu[1, 2], L H Wang[1, 2], D X Li[1, 2], M Zhang[1, 2]
[1] *Zhejiang University, Zhejiang, China*
[2]*Zhejiang Provincial Key Laboratory of Information Network Technology, China*

Oral Session IV- Remote Sensing and GIS and Bio-informatics

627 Design and Evaluation of an Electrolarynx with Mandarin Tone-Control Function
C Y Wan, E Q Wang, L Wu, S P Wang
Xi'an Jiaotong University, Xi'an, China

632 The Study of Image Processing for Retinal Prosthesis Based on Android
Z Su[1, 2], S P Mai[1], C Zhang[2]
[1]*Graduate School at Shenzhen, Tsinghua University Shenzhen, Guangdong, China*
[2]*Institute of Microelectronics, Tsinghua University, Beijing, China*

636 EEG Signal Processing Based on Proper Orthogonal Decomposition
T Zhou, H Jiang
Fuzhou University, Fujian, China

641 A Combined Destruction-Monitoring Strategy: Rapid Microbubble Destruction within a Focal Region on a Diagnostic Ultrasound Scanner
S S Xu, H J Jiang, Z A Xu
The Key Laboratory of Biomedical Information Engineering of Ministry of Education, School of Life Science and Technology, Xi'an Jiaotong University, China

647 Time Delay Estimation for Low SNR Signals with Impulsive Noises Using Fractional Low Order Covariation Sequences
W H Liu
Shanghai Dianji University, Shanghai, China

651 Extraction for Finger Vein Pattern based on PDE
F C Zhang[1], J Y Guo [2],S X Guo[1]
[1]*Jilin University, Changchun, China*
[2]*Tsinghua University, Beijing China*

657 Undersampled MRI Reconstruction Comparison of TGV and TV
Y Fei, J H Luo
Shanghai Jiao Tong University, Shanghai, China

661 Accelerating Volume Ray Casting by Empty Space Skipping Used for Computer-Aided Therapy
Y N Wang[1], W B Dou[1], J.M. Constans[2]
[1] *Tsinghua University, Beijing, China*
[2]*Unité d'IRM, CHU de Caen, France*

668 A Real-Time Leg Motion Recognition System by Using Mahalanobis Distance and LS_SVM
L Chen[1,2], Q S Ai[1,2], Y He[1], Q Liu[1,2], W Meng[1,2]
[1]*Wuhan University of Technology, China,*
[2]*Key Lab. of Fiber Optic Sensing Technology and Information Processing, Wuhan University of Technology, China*

674 3D Model Reconstruction and Animation from Single View Face Image
N. M Patel[1], M. Zaveri[2]
[1]*B.V.M Engineering College, Vallabh Vidyanagar, India*
[2]*Computer Engineering Department, SVNIT, Surat, India*

683 Despeckling Medical Ultrasound Image based on Spatially Adaptive Maximum-Likelihood Estimation
J H Yu, T Hou, Y Guo, Y Y Wang
State Key Laboratory of ASIC & System, Fudan University, Shanghai, China
National Laboratory of Pattern Recognition, Chinese Academy of Sciences, Beijng , China

690 Motion Vector Recovery Method Based on Kernel Regression
X F Zhan
Jiangxi Normal University, Nanchang, China

694 Research of Pattern Recognition Based on the Local Structure Topological Relationship Modeling
Y X Qin, L Ma, H F Li, Q H Wei
Harbin Institute of Technology, China

698 An Improved Two-View Convergent-Style-Based Disparity Estimation Algorithm
X W Song[1], L Yang[1,2], Z Liu[1]
[1]*Zhongyuan University of Technology, Zhengzhou, China*
[2]*Tianjin University, Tianjin, China*

705 Multi-polarimetric SAR Image Compression Based on Sparse Representation and Super-Resolution
Y Chen, R Zhang, D Yin
University of Science and Technology of China, Hefei, China

710 Example-based Image Upscaling Using Parallel Texture Synthesis
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716 An Effective Algorithm for Salt-and-Pepper Noise Removal in Color Images
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722 Local Color Transfer via Color Classification
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728 A GPU Accelerated Algorithm for Compressive Sensing based Video Super-resolution
X F Wu, H Xiang
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735 Image Contrast Enhancement by Contourlet Transform and PCNN
W T Zheng, T Pu, J Cheng, H Zheng
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Poster Session II - Audio and Music Processing Remote Sensing and GIS

740 Rendering of Large-Scale 3D Terrain Point Cloud Based on Out-of-Core
L Liu, X Q Yu*****, W G Wan, H F Yu, R Liu
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Shanghai HanPan Information S&T Ltd, Shanghai, China

745 Study of Depth of Field Based on GPU Post-Processing
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750 Threat Substances Explosion and Polluted Building Surfaces Detection Research in 3D Virtual City Based on ArcGIS
L Li, W G Wang, X X Li, R Wang, X M Zhang, X Q Yu
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Institute of Smart City, Shanghai University, Shanghai, China
Shanghai HanPan Information S&T Ltd, Shanghai, China

756 The Telematic Learning Environment: Experiences and Outcomes Teaching via Network Audio
D Chester
New York University Abu Dhabi, USA

763 Robust Audio Fingerprint Extraction Algorithm Based on 2-D Chroma
H X Wang, X Q Yu, W G Wang, R Swaminathan
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768 Noise Reduction Based on Nearest Neighbor Estimation for Audio Feature Extraction
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772 Audio Fingerprinting Based on Dynamic Subband Locating and Normalized SSC
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777 On Objective Assessment of Audio Quality-A Review
J Zheng, M Y Zhu,Y Song
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783 Analysis on Greedy Reconstruction Algorithms Based on Compressed Sensing
L F Du, R Wang, W G Wan, X Q Yu, S Yu
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790 An Improved Spectral Subtraction Method
H H Liu, X Q Yu, W G Wan, R Swaminathan
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794 A Method of Fast Rebuilding and Displaying Lujiazui Area Based on ArcGlobe
L Li, W G Wan, X X Li, X M Zhang, W Xiong, X Q Yu
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Institute of Smart City, Shanghai University, Shanghai, China
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799 Random Routing Algorithm for Rhombic-deployed Sensor Networks Based on Compressed Sensing
R Wang, S Yu, W G Wan, Y Y Gao, L F Du
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805 A Study of the Unification of Multisensor Data
R Y Wang[1], Z H Wang[2], D J Lian[2]
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Wednesday, July 18, 2012

Oral Session V - Image Processing

811 Stereo Matching Using Aggregated Likelihood and Multi-scale Prior
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817 Application of Hough Transform in Lateral Multi-lens Video Logging Image Segmentation
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822 Beyond Dominant Plane Assumption: Moving Objects Detection in Severe Dynamic Scenes with Multi-Classes RANSAC
X Zhang, S J Wang, X Q Ding
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828 Handwritten and Machine Printed Text Discrimination Using an Edge Co-occurrence Matrix
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832 The Bi-Group Evolutionary Programming for Image Processing
F Liu[1], B Yang[2], K G Li[1]
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837 Seal Imprint Segmentation Based on Color Feature Classifier
W Q Pan[1], J Y Hu[2], M L Liu[2], X Qi[2], H T Lang[2]
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841 ROI Perspective Transform Based Road Marking Detection and Recognition
Z Q Liu, S J Wang, X Q Ding
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847 A New Method to Detect Surface Defects of Fruits
H Y Deng, R H Wang
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854 Cerebrovascular Segmentation Based on Region Growing and Level Set Algorithm
L Z Xie[1], M Q Zhou[2], Y Tian[2], R F Cao[2]
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860 A Variational Model of Image Restoration Based on First and Second Order Derivatives and Its Split Bregman Algorithm
S X Zheng, Z K Pan, G D Wang, X Yan
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866 Principal Object Detection Towards Product Image Search
X Wu, L L Liang, W J Wang, Q Peng
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872 A Fast Algorithm of 4-point Floating DCT in Image/Video Compression
K Tong[1], Y K Gu[2], G L Li[1], X Xie[2], S H Liu, K Zhao, Z H Wang
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876 Semantic Classification Based Clothing Image Retrieval
Z Y Lu, L Shen, Y L Yuan, Y Zhao
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884 A Sample of Correction for the Model Used Predicating Digital Television Signals in Urban Area
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889 Fast Template Matching with Partial Skipping Using Sub-template
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893 Fast Ground Target Detection Method in Infrared Image Sequences
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898 Target Recognition Method based on Template Matching in Downward -looking InfraredImage
H Zhu, L Z Deng, G Zhou, X D Bai, G H Wang
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903 Design of M-Channel Uniform Linear-Phase Filter Banks with Near-Perfect-Reconstruction Property
W Zhong[1,2], X M Xie[2], G M Shi[2], B Peng[2], Q Zhang[1]
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909 A DCT-domain Compressed ImagesRegistration Approach
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914 Image Retrieval Using Accurate Approximated Inverse Document Frequency of Geometry-Preserving Visual Phrases
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919 Moving Target Tracking based on Adaptive Background Subtraction and Improved Camshift Algorithm
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925 Research on LED Screen?Brightness?Detection Algorithm
Y F Xu, Y Zhang
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930 Separation and Extracting the Interference Structures of Moving Acoustic Sources with A Single Vector Hydrophone
W S Lin, G L Liang, J Fu, G P Zhang
Science and Technology on Underwater Acoustic Laboratory, Harbin Engineering University, China

936 Human Motion Segmentation Based on Low-Rank Representation
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942 Noise Removal of Audio Clips for Fingerprint Matching
Y H Wang[1,2,3], X Q Yu[1,2,3], W G Wang[1,2,3],W GWan[1,2,3],R Swaminathan[1,2,3]
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947 Compressed Sensing in Audio Signals and It's Reconstruction Algorithm
S Yu, R Wang, W G Wan, L F Du, X Q Yu
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953 3D Reconstruction and Interaction for Smart City based on World Wind

R Wang, L B Jin, R Xiao, S L Guo, S Y Li
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Oral Session VI - Language and Speech Processing

957 Temporal Alignment Algorithm for Electropalatographic and Acoustic Signals in Long Utterances
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961 Selection of Negative Pool for PR-SVM in Language Recognition
W W Liu, W Q Zhang, J Liu
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966 Label Transform Based Cross-Language Speaker Adaptation in Bilingual (Mandarin-English) TTS
Y J So, J Jia, Y X Wang, L H Cai
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971 A Dynamic Gap Dimension Reduction Approach For High Order N-gram Phonotactic Language Recognition
W W Liu, W Q Zhang, J Liu
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976 Speaking Rate Estimation for Multi-Speakers
Y Wu, Q H He, Y X Li
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980 Fast Speech Enhancement Using A Novel Noise Constrained Least Square Estimation
Y S Xia
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986 Fast Multi-Channel Colored Noise Reduction Algorithm Using A Novel Statistical Data Fusion Estimation
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991 Research on Voice Activity Detection in Burst and Partial Duration Noisy Environment
C Y Guo[1], R Z Li[2], M Fan[1], K J Liu[3]
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996 Special Estimation algorithm of AR Model
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1001 Total Variability Factors Combination for Speaker Verification
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1005 Exploiting Language Cluster Information for Language Pair Identification
B Jiang, Y Song, L R Dai
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1010 An Efficient Layer-Wised Beam Pruning Algorithm for Large Vocabulary Continuous Speech Recognition System
X Chen, Y X Shan, X Zhang, J Liu
Tsinghua University, Beijing, China

1014 Dual-microphone Based Binary Mask Estimation for Robust Speaker Verification
Y L Zhao, Z H Fu, L Xie,J Zhang, Y N Zhang
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1020 Integrated Tone Evaluation in Mandarin CALL Systems Using Competing Model Based Approach
Y Qu[1], Y Lu[1], P S P Wang[1,2], X He[3]
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1026 Improved Spoken Term Detection by Template-based Confidence Measure
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1031 Spoken Term Detection for OOV Terms Based on Phone Fragment
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1035 Ancient Chinese Musical Score Translation via Instance-based Learning
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Oral Session VII - Computer Graphic and Virtual Reality

1041 Design and Implementation of Lunar Surface Inspection Simulation and Validation System
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1046 Star Skeleton for Human Behavior Recognition
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1051 Ship Motion Modeling and Simulation in Ship Handling Simulator
X F Zhang, Y C Jin, Y Yin, H X Ren, X W Liu
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1057 Study on Spatial Interpolation Method and Its Application
H Xu[1], Q Wu[2], H Z Lei[2], S Y Li[2]
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1062 Multi-view Stereoscopic Angle Model and It's Application
H Cheng, P An, H J Li, Z J Zhang, Z Y Zhang
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1067 A Dynamical Loading of Large Scale 3D City Based on OSG
X M Zhang[1,2,3,4], W G Wan[1,4], F Guo[1,3,4], X L Zhou[1,3,4], X Q Yu[1]
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1072 Reconstructing Curve on the Surface with Extreme Learning Machines
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1077 3D Visualization for Heart Model from Point Clouds
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Oral Session VIII - Audio and Music Processing and Multimedia SOC Design

1082 Human Detection and Tracking Using Apparent Features under Multi-cameras with Non-overlapping
L Tian, S J Wang, X Q Ding
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1088 An Improved Adaptive Rood Pattern Search Algorithm Based on Temporal and Spatial Correlation
C C Chen, J M Shan, E Y Yang
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1093 An Efficient Region-Adaptive Stereo Matching Algorithm
L Chen, M G Chen, X Lin, L Z Ma
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1098 An Efficient Cutting Method for 3D Endocardial Geometric Model
X L Zhou[1,2,3,4], W G Wan[1, 4], Y N Wang[1, 3,4], J B Li[1, 3,4], Y Y Jia[1, 3,4]
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1104 Audio Fingerprint Based on Spectral Flux for Audio Retrieval
W G Wang[1,2,3], X Q Yu[1,2,3], Y H Wang[1,2,3], R Swaminathan[1,2,3]
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1108 A More Efficient Triangle Rasterization Algorithm Implemented in FPGA
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1114 Fast Frequent Itemsets Generation and Support Calculation with FPGAs
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1120 Research of Graphics Acceleration Based on Embedded System
F Guo[1,2,3,4], W G Wan[1,4], W Z Zhang[1,3,4], X Feng[1,3,4]
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1125 Automatic Instrument and Environmental Sound Recognition for Media Annotation of TV Content
S Cavaco, F Malheiro, J Mateus, R Jesus, N Correia
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Poster Session III –Language and Speech Processing and Computer Graphic and Virtual Reality

1131 A Hybrid Method to Segment Words
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1135 Syntactic Structure feature Analysis and Classification Method Research
W L Zhan, Z L Shen
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1141 Features for Phoneme Independent Speaker Identification
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1146 Multichannel Speech Recognition using Distributed Microphone Signal Fusion Strategies
M B. Trawicki[1], M T. Johnson[1], A Ji, T S. Osiejuk[2]
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1151 Realization of Flood Simulation Visualization Based on OpenGL
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1155 Using OpenSceneGraph to Simulate the Dynamic Flooding Effect
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1159 A Pathfinding Algorithm in Real-time Strategy Game Based on Unity3D
J Hu, W G Wan, X Q Yu
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1163 A Segmentation Progressive Mesh Compression Method
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1167 Virtual Reality Platform for Smart City Based on Sensor Network and OSG Engine
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1172 The Management of Dual Threads in Large Scale City Roaming Based on OSG
X M Zhang[1,2,3,4], W G Wan[1,4], F Guo[1,3,4], X L Zhou[1,3,4], X Q Yu[1]
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1176 Virtual Campus Construction on the Web Services
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