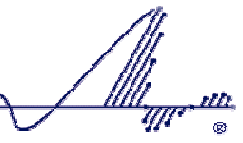


IEEE MMSp 2008



IEEE

IEEE
Signal Processing Society



2008 International Workshop on Multimedia Signal Processing

<http://www.mmsp08.org/>



October 8-10, 2008
Marlin Room, Shangri-la Hotel
Cairns, Australia

Microsoft®

cisra



Table of Contents

Program Session Index	1
Time Table	2
Opening Ceremony	3
Keynote Talks	3
Oral Presentation	4
Wednesday, 8 October 2008.....	4
Thursday, 9 October 2008.....	6
Friday, 10 October 2008.....	9
Poster Session	12
Wednesday, 8 October 2008.....	12
Thursday, 9 October 2008.....	19
Social Events	27
Lunch.....	27
Reception.....	27
Workshop Dinner.....	27
Best Paper Announcement & Guest Speech.....	27

Program Session Index

Oral Presentation

Session 1: Bio-inspired Multimedia Signal Processing	4
Session 2: Joint Session: HCI and Interaction using multi-modalities, Hybrid Multimedia Signal Processing and Medical 2D/3D Image Processing.....	4
Special Session 1: Search and Beyond Search: Online Video Applications.....	5
Session 3: Speech/Audio Processing	6
Session 4: Multimedia Content Management	6
Special Session 2: Immersive Tele Collaboration	7
Session 5: Multimedia Systems Design, Implementation and Applications	7
Session 6: Multimedia Networking and Security	8
Session 7: Pre/Post Image/Video Processing and Coding	9
Special Session 3: Global Motion Estimation and Mosaicing for Applications in Video Analysis and Coding.....	10
Session 8: Joint Session: Multimedia Content Management, Pre/post Image/Video Processing and Coding.....	10
Session 9: Joint Audio/Video Coding and Joint Source and Channel Coding.....	11

Poster Presentation

Poster Session 1: Multimedia Content Management	12
Poster Session 2: Joint Session: Multimedia Content Management, Pre/post Image/Video Processing and Coding.....	14
Poster Session 3: Pre/post Image/Video Processing and Coding	16
Poster Session 4: Pre/post Image/Video Processing and Coding	19
Poster Session 5: Bio-inspired Multimedia Signal Processing. HCI and Speech/audio processing	21
Poster Session 6: Joint Session: Hybrid Multimedia Signal Processing, Medical 2D/3D Image Processing, Multimedia Networking and Security	23
Poster Session 7: Joint Session: Multimedia Security, Multimedia system design, implementation & application and Standards	25

Time Table

	Oral Presentation Session			Poster Session		
	8-Oct	9-Oct	10-Oct	8-Oct	9-Oct	
8:30						
8:40	Opening Ceremony					
8:50						
9:00	Keynotes -1	Keynotes -3	Keynotes -4	Keynotes -1	Keynotes -3	
9:10						
9:20						
9:30						
9:40						
9:50						
10:00	Morning Tea	Morning Tea	Morning Tea	Morning Tea	Morning Tea	
10:10	Session 1	Session 4	Session 7	Poster Session 1	Poster Session 4	
10:20						
10:30						
10:40						
10:50						
11:00						
11:10						
11:20						
11:30						
11:40						
11:50						
12:00	Lunch	Lunch MMSP TC meeting	Lunch	Lunch	Lunch MMSP TC meeting	
12:10						
12:20						
12:30						
12:40						
12:50						
13:00						
13:10	Keynotes -2	Special Session 2	Special Session 3	Keynotes -2	Poster Session 5	
13:20						
13:30						
13:40						
13:50						
14:00						
14:10	Break			Break		
14:20	Session 2	Afternoon Tea	Afternoon Tea	Poster Session 2	Afternoon Tea	
14:30						
14:40		Session 5	Session 8		Poster Session 6	
14:50						
15:00						
15:10						
15:20	Afternoon Tea		Afternoon Tea			
15:30						
15:40						
15:50						
16:00	Special Session 1		Break	Poster Session 3	Poster Session 7	
16:10						
16:20		Break	Session 9			Break
16:30						
16:40						
16:50						
17:00	Session 6					
17:10						
17:20		Break				
17:30						
17:40	Session 3					
17:50						
18:00						
18:10						
18:20						
18:30						
18:40						
19:00	Reception	Dinner Best Paper Announcements				
19:10						
19:20						
19:30						
19:40						
19:50						
20:00						
20:10						
20:20						
20:30						
20:40						
20:50						
21:00						

Opening Ceremony

Time: Wednesday, 8 October 2008, 08:30 – 09:00
Place: Marlin Room

Keynote Talks

Keynote Talk 1: Multimedia Medical Signal Management – New Challenges in Crossing the Imaging Chasm between Signal Acquisition, Processing, Diagnosis and Treatment

Speaker: Prof. H.K Huang, University of Southern California, USA
Time: Wednesday, 8 October 2008, 09:00 – 10:00
Place: Marlin Room
Chair: Prof. David Feng, University of Sydney, Australia

Keynote Talk 2: Multimedia Application to the Simulation of Human Musculoskeletal System: A Visual Lower Limb Model from Multimodal Captured Data

Speaker: Prof. Nadia Magnenat-Thalmann, University of Geneva, Switzerland
Time: Wednesday, 8 October 2008, 13:10 – 14:10
Place: Marlin Room
Chair: Prof. David Feng, University of Sydney, Australia

Keynote Talk 3: Multimedia Search: Past and Current Approaches

Speaker: Dr. HongJiang Zhang, Microsoft China, China
Time: Thursday, 9 October 2008, 09:00 – 10:00
Place: Marlin Room
Chair: Prof. Jean-Luc Dugelay, EURECOM, France

Keynote Talk 4: Technical Challenges in Video Coding and Processing for Future Digital Entertainment

Speaker: Prof. Chang Wen Chen, University at Buffalo, the State University of New York
Time: Friday, 10 October 2008, 09:00 – 10:00
Place: Marlin Room
Chair: Dr. Jian Zhang, NICTA, Australia

Oral Presentation

Wednesday, 8 October 2008

Session 1: Bio-inspired Multimedia Signal Processing

Time: Wednesday, 8 October 2008, 10:20 – 12:00

Place: Marlin Room 2 & 3

Chair: Prof. H.K Huang, University of Southern California, USA

Time: 10:20

PID-341:

Graphical Modeling And Decoding Of Human Actions

Wanqing Li, Zhengyou Zhang, Zicheng Liu

Time: 10:40

PID-250:

Lossless Compression Of Biomedical Signals By Mpeg-4 Als With Enhanced Encoding Tools

Yutaka Kamamoto, Noboru Harada, Takehiro Moriya

Time: 11:00

PID-142:

Support Vector Machine For Eeg Signal Classification During Listening To Emotional Music

Yuan-Pin Lin, Chi-Hong Wang, Tien-Lin Wu, Shyh-Kang Jeng, Jyh-Horng Chen

Time: 11:20

PID-145:

Light Weight Mobile Device Targeted Speaker Clustering Algorithm

Olli Vuorinen, Tommi Lahti, Satu-Marja Mäkelä, Johannes Peltola

Time: 11:40

PID-110:

Segmentation Of Dual Modality Brain Pet/Ct Images Using The Map-Mrf Model

Yong Xia, Lingfeng Wen, Stefan Eberl, Michael Fulham, Dagan Feng

Session 2: Joint Session: HCI and Interaction using multi-modalities, Hybrid Multimedia Signal Processing and Medical 2D/3D Image Processing

Time: Wednesday, 8 October 2008, 14:20 – 15:40

Place: Marlin Room 2 & 3

Chair: Prof. Nadia Magnenat-Thalmann, University of Geneva

Time: 14:20

PID-304:

Image Registration By Means Of 3D Octree Correlation

C. Ruwwe, B. Keck, O. Rusch, U. Zölzer, X. Loison

Time: 14:40

PID-76:

Vibrotactile Jacket For Perception Enhancement
Sylvain Cardin, Daniel Thalmann

Time: 15:00

PID-57:

A Weight Matrix Based Blind Super Resolution Restoration Algorithm
Suyu Wang, Li Zhuo, Lansun Shen

Time: 15:20

PID-22:

Computationally Efficient Interference Detection In Videokeratotomy Images
David Alonso-Caneiro, D. Robert Iskander, Michael J. Collins

Special Session 1: Search and Beyond Search: Online Video Applications

Time: Wednesday, 8 October 2008, 16:00 – 17:20

Place: Marlin Room 2 & 3

Chair: Prof. Jesse Jin, Newcastle University, Australia
A/Prof. Xiangjian He, University of Technology, Sydney,
Australia

Time: 16:00

PID-340:

Effective Video Event Detection Via Subspace Projection
Jialie Shen, Dacheng Tao, Xuelong Li

Time: 16:20

PID-321:

Snapfish Lab: An Open Online Imaging Community
Peng Wu, Eamonn O'Brien-Strain, Jerry Liu

Time: 16:40

PID-230:

Content Based Image Retrieval Using Curvelet Transform
Ishrat Jahan Sumana, Md. Monirul Islam, Dengsheng Zhang, Guojun Lu

Time: 17:00

PID-122:

Extraction Of 3D Scene Structure For Semantic Annotation And Retrieval Of Unedited Video
Ingo Feldmann, Wolfgang Waizenegger, Oliver Schreer

Session 3: Speech/Audio Processing

Time: Wednesday, 8 October 2008, 17:30 – 18:30
Place: Marlin Room 2 & 3
Chair: Prof. Aggelos Pikrakis, University of Piraeus, Greece

Time: 17:30

PID-273:

The Sail Speaker Diarization System For Analysis Of Spontaneous Meetings
Kyu J. Han, Panayiotis G. Georgiou, Shrikanth S. Narayanan

Time: 17:50

PID-200:

Music Tracking In Audio Streams From Movies
Theodoros Giannakopoulos, Aggelos Pikrakis, Sergios Theodoridis

Time: 18:10

PID-89:

Open-Vocabulary Keyword Detection From Super-Large Scale Speech Database
Naoyuki Kanda, Hirohiko Sagawa, Takashi Sumiyoshi, Yasunari Obuchi

Thursday, 9 October 2008

Session 4: Multimedia Content Management

Time: Thursday, 9 October 2008, 10:20 – 12:00
Place: Marlin Room 2 & 3
Chair: Prof. Ling Guan, Ryerson University, Canada

Time: 10:20

PID-316:

A New Framework Of Relevance Feedback For Content-Free Image Retrieval
Rui Zhang, Ling Guan

Time: 10:40

PID-215:

Mining Temporal Information And Web-Casting Text For Automatic Sports Event Detection
Minh-Son Dao, Noburu Babaguchi

Time: 11:00

PID-127:

Region-Based Image Categorization With Reduced Feature Set
Gunawan Herman, Getian Ye, Jie Xu, Bang Zhang

Time: 11:20

PID-95:

Spatiotemporal Semantic Video Segmentation
E. Galmar, Th. Athanasiadis, B.Huet, Y. Avrithis

Time: 11:40

PID-21:

Using Dynamic Programming To Segment Star Shape Based On Human Perception And Optimization Formulation

Hai-Feng Kao, Hong-Yuan Mark Liao

Special Session 2: Immersive Tele Collaboration

Time: Thursday, 9 October 2008, 13:10 – 14:30

Place: Marlin Room 2 & 3

Chair: Dr. Zicheng Liu – Microsoft Research, USA

Dr. Wanqing Li University of Wollongong, Australia

Time: 13:10

PID-308:

Singular Block Toeplitz Matrix Approximation And Application To Multi-Microphone Speech Dereverberation

Samir-Mohamad Omar, Dirk T.M. Slock

Time: 13:30

PID-168:

Quality Of Service Issues For Distributed Virtual Environments With Haptic Interfaces

Alan Marshall, Kian Meng Yap, Wai Yu

Time: 13:50

PID-90:

Reliability-Based Generation And View Synthesis In Layered Depth Video

Karsten Müller, Aljoscha Smolic, Kristina Dix, Peter Kauff, Thomas Wiegand

Time: 14:10

PID-15:

Semantic Saliency Driven Camera Control For Personal Remote Collaboration

Cha Zhangy, Zicheng Liuy, Zhengyou Zhangy, Qi Zhao

Session 5: Multimedia Systems Design, Implementation and Applications

Time: Thursday, 9 October 2008, 14:50 – 16:30

Place: Marlin Room 2 & 3

Chair: Dr. Anthony Vetro, Mitsubishi Electrical Research Lab, USA

Time: 14:50

PID-251:

Facial Color Adaptive Technique Based On The Theory Of Emotion-Color Association And Analysis Of Animation

Kyu-Ho Park, Tae-Yong Kim

Time: 15:10

PID-213:

3Dav Integrated System Featuring Arbitrary Listening-Point And Viewpoint Generation
Mehrdad Panahpour Tehrani, Kenta Niwa, Norishige Fukushima, Yasushi Hirano, Toshiaki Fujii,
Masayuki Tanimoto, Kazuya Takeda, Kenji Mase, Akio Ishikawa, Shigeyuki Sakazawa, Atsushi
Koike

Time: 15:30

PID-201:

A Novel Radon Based Ray-Space Interpolation Algorithm
Ling Hou, Oscar C. Au, Xiaopeng Fan, Liwei Guo, Mengyao Ma

Time: 15:50

PID-170:

Design Of A Pareto-Optimization Environment And Its Application To Motion Estimation
J. Von Livonius, H. Blume, T. G. Noll

Time: 16:10

PID-48:

Biosignal And Context Monitoring: Distributed Multimedia Applications Of Body Area Networks In
Healthcare
V.M. Jones, R. Huis In'T Veld, T. Tonis, R.B. Bults, B. Van Beijnum, I. Widya, M. Vollenbroek-
Hutten, H. Hermens

Session 6: Multimedia Networking and Security

Time: Thursday, 9 October 2008, 16:40 – 18:00

Place: Marlin Room 2 & 3

Chair: Prof. Ian Burnett, RMIT University, Australia

Time: 16:40

PID-156:

A Digital Video Watermarking Scheme For Annotating Traffic Surveillance Videos
Po-Chyi Su, Ching-Yu Wu, Yen-Chin Chen

Time: 17:00

PID-209:

A New Low Complex Reference Free Video Quality Predictor
Andreas Rossholm, Benny Lövsström

Time: 17:20

PID-197:

Distributed Source Coding Based Encryption And Lossless Compression Of Gray Scale And Color
Images
Anil Kumar A, Anamitra Makur

Time: 17:40

PID-163:

A Structural Method For Quality Evaluation Of Desynchronization Attacks In Image Watermarking
Angela D'Angelo, Mauro Barni

Friday, 10 October 2008

Session 7: Pre/Post Image/Video Processing and Coding

Time: Friday, 10 October 2008, 10:20 – 12:00

Place: Marlin Room 2 & 3

Chair: Prof. Michael Frater, University of New South Wales, Australia

Time: 10:20

PID-334:

Adaptive Wavelet Coding Of The Depth Map For Stereoscopic View Synthesis
Ismaël Daribo, Christophe Tillier, Béatrice Pesquet-Popescu

Time: 10:40

PID-219:

Early Detection Algorithms For 8×8 All-Zero Blocks In H.264/Avc
Qin Liu, Yiqing Huang, Takeshi Ikenaga

Time: 11:00

PID-148:

Fast Encoding Algorithms For Video Coding With Adaptive Interpolation Filters
Dmytro Rusanovskyy, Kemal Ugur, Moncef Gabbouj

Time: 11:20

PID-124:

Bit Allocation For Spatial Scalability In H.264/Svc
Jiaying Liu, Yongjin Cho, Zongming Guo, C.-C. Jay Kuo

Time: 11:40

PID-9:

A Non-Linear Post Filtering Method For Flicker Reduction In H.264/Avc Coded Video Sequences
Jie Xiang Yang, Hong Ren Wu

Special Session 3: Global Motion Estimation and Mosaicing for Applications in Video Analysis and Coding

Time: Friday, 10 October 2008, 13:10 – 14:30
Place: Marlin Room 2 & 3
Chair: Dr. Andreas Krutz, Technical University of Berlin, Germany

Time: 13:10

PID-86:

Generalized Framework For Reduced Precision Global Motion Estimation Between Digital Images
K. Yang, M. R. Frater, E. H. Huntington, M. R. Pickering, J. F. Arnold

Time: 13:30

PID-82:

A Practical Approach To Multiple Super-Resolution Sprite Generation
Getian Ye, Yang Wang, Jie Xu, Gunawan Herman, Bang Zhang

Time: 13:50

PID-80:

Recent Developments In Panoramic Image Generation And Sprite Coding
Dirk Farin, Martin Haller, Andreas Krutz, Thomas Sikora

Time: 14:10

PID-74:

Camera Motion-Constraint Video Codec Selection
Andreas Krutz, Sebastian Knorr, Matthias Kunter, Thomas Sikora

Session 8: Joint Session: Multimedia Content Management, Pre/post Image/Video Processing and Coding

Time: Friday, 10 October 2008, 14:50 – 16:10
Place: Marlin Room 2 & 3
Chair: Prof. H-Y Mark Liao, Institute of Information Science, Academia Sinica, Taiwan

Time: 14:50

PID-331:

Color Image Database For Evaluation Of Image Quality Metrics
N. Ponomarenko, V. Lukin, K. Egiazarian, J. Astola, M. Carli, F. Battisti

Time: 15:10

PID-323:

Region Based Image Appeal Metric For Consumer Photos
Pere Obrador

Time: 15:30

PID-195:

Standard-Compliant Multiple Description Image Coding By Spatial Multiplexing And Constrained Least-Squares Restoration

Xiangjun Zhang, Xiaolin Wu

Time: 15:50

PID-143:

On The Detection And Localization Of Facial Occlusions And Its Use Within Different Scenarios
Lutz Goldmann, Antonio Rama, Thomas Sikora, Francesc Tarres

Session 9: Joint Audio/Video Coding and Joint Source and Channel Coding

Time: Friday, 10 October 2008, 16:20 – 17:50

Place: Marlin Room 2 & 3

Chair: Dr. Jian Zhang, NICTA, Australia

Time: 16:20

PID-247:

Structured Network Coding And Cooperative Local Peer-To-Peer Repair For Mbms Video Streaming
Xin Liu, Gene Cheung, Chen-Nee Chuah

Time: 16:40

PID-173:

Distortion Estimation For Optimized Delivery Of Jpeg2000 Compressed Video With Motion
Aous Thabit Naman, David Taubman

Time: 17:00

PID-146:

Distortion-Aware Retransmission And Concealment Of Video Packets Using A Wyner-Ziv-Coded Thumbnail
Zhi Li, Yao-Chung Lin, David Varodayan, Pierpaolo Baccichet, Bernd Girod

Time: 17:20

PID-77:

Novel R-D Optimized Uneven Erasure-Protection Strategy For Scalable Data Formed Of Multiple Code Streams
Geoffrey Rivers, Sorina Dumitrescu, Shahram Shirani

Poster Session

Wednesday, 8 October 2008

Poster Session 1: Multimedia Content Management

Time: Wednesday, 8 October 2008, 10:20 – 12:00

Place: Marlin Room 1

Time: 10:20

PID-4:

Comparison Analysis On Supervised Learning Based Solutions For Sports Video Categorization
Min Xu, Mira Park, Suhuai Luo, Jesse S. Jin

Time: 10:20

PID-12:

A Fast Content-Dependent Interpolation Approach Via Adaptive Filtering
Hui Li, Yuhua Peng, Wen-Liang Hwang

Time: 10:20

PID-13:

Color Restoration For Objects Of Interest Using Robust Image Features
David Chen, Vijay Chandrasekhar, Gabriel Takacs, Jatinder Singh, Bernd Girod

Time: 10:20

PID-14:

3-D Mesh Representation And Retrieval Using Isomap Manifold
Jung-Shiong Chang, Arthur C-C Shih, H-Y Lin, H-F Kao, H-Y Mark Liao, W-H Fang

Time: 10:20

PID-24:

Rich Representation And Ranking For Photographic Image Retrieval In Imageclef 2007
Sheng Gao¹³, Jean-Pierre Chevallet¹², Joo-Hwee Lim

Time: 10:20

PID-28:

An Intelligent Classification Algorithm for LifeLog Multimedia Applications
Changseok Bae, Yuk Ying Chung, Mohd Afizi Mohd Shukran, Eric Choi, Wei-Chang Yeh

Time: 10:20

PID-32:

Efficient And Effective Transformed Image Identification
Mohammad Awrangjeb, Guojun Lu

Time: 10:20

PID-51:

Extracting Key Postures In A Human Action Video Sequence
Yan Chen, Qiang Wu, Xiangjian He, Chunhua Du, Jie Yang

Time: 10:20

PID-104:

Music Emotion Annotation By Machine Learning
Wai Ling Cheung, Guojun Lu

Time: 10:20

PID-165:

Spsa Based Feature Relevance Estimation For Video Retrieval
Sudha Velusamy, Shalabh Bhatnagar, Basavaraja Sv, Sridhar V

Time: 10:20

PID-192:

Highlight Detection In Soccer Video Using Web-Casting Text
Xi-Feng Ding, Yin-Jun Miao, Fan Bu, Li-Feng Sun, Shi-Qiang Yang

Time: 10:20

PID-193:

A Volume Image Foreground Identification Method By Dual Multi-Scale Morphological Operations
Jiann-Jone Chen, Chun-Rong Su, Lien-Chun How, Han-Yuen Yu

Time: 10:20

PID-227:

Motion Classification Using Dynamic Time Warping
Kevin Adistambha, Christian H. Ritz, Ian S. Burnett

Time: 10:20

PID-238:

Measuring Semantic Similarity Between Concepts In Visual Domain
Zhiyong Wang, Genliang Guan, Jiajun Wang, Dagan Feng

Time: 10:20

PID-239:

Image Annotation With Parametric Mixture Model Based Multi-Class Multi-Labeling
Zhiyong Wang, Wan-Chi Siu, Dagan Feng

Time: 10:20

PID-240:

Using Stochastic Gradient-Descent Scheme In Appearance Model Based Face Tracking
Zhidong Li, Jing Chen, Adrian Chong, Zhenghua Yu, Nicol N. Schraudolph

Time: 10:20

PID-246:

Highlight Scene Extraction Of Sports Broadcasts Using Sports News Programs
Yoshiaki Itoh, Shigenobu Sakaki, Kazunori Kojima, Masaaki Ishigame

Time: 10:20

PID-252:

An Unsupervised Approach To Determination Of Main Subject Regions In Images With Low Depth Of Field

Chi Zhang, Hongbin Zhang

Time: 10:20

PID-34:

When Multimedia Advertising Meets The New Internet Era

Xian-Sheng Hua, Tao Mei, Shipeng Li

Time: 10:20

PID-56:

Online Photography Assistance By Exploring Geo-Referenced Photos On Mid / Umpc

Patricia P. Wang, Wei Zhang, Jianguo Li, Yimin Zhang

**Poster Session 2: Joint Session: Multimedia Content Management,
Pre/post Image/Video Processing and Coding**

Time: Wednesday, 8 October 2008, 14:20 – 15:40

Place: Marlin Room 1

Time: 14:20

PID-260:

Genre Classification Of Compressed Audio Data

Antonello Rizzi, Nicola Maurizio Buccino, Massimo Panella, Aurelio Uncini

Time: 14:20

PID-263:

Adaptive Multiple Experts System For Personal Identification Using Facial Behaviour Biometrics

Pohsiang Tsai , Tich Phuoc Tran, Tom Hintz , Tony Jan

Time: 14:20

PID-298:

Content-Based Image Retrieval By A Semi-Supervised Particle Swarm Optimization

M.Broilo, P. Rocca, F. G. B. De Natale

Time: 14:20

PID-311:

Tennis Video Enrichment With Content Layer Separation And Real-Time Rendering In Sprite Plane

Jui-Hsin Lai, Shao-Yi Chien

Time: 14:20

PID-312:

Baseball And Tennis Video Annotation With Temporal Structure Decomposition

Jui-Hsin Lai, Shao-Yi Chien

Time: 14:20

PID-315:

An Evaluation Of Possession Information In Playfield Zones From Soccer Video Using Mid-Level Descriptors

Serhat Aydin, M. Elif Karsligil

Time: 14:20

PID-317:

Modelling An Individual'S Web Search Interests By Utilizing Navigational Data

Hao Wen, Liping Fang, Ling Guan

Time: 14:20

PID-328:

A Text Segmentation Based Approach To Video Shot Boundary Detection

Duy-Dinh Le, Shin'ichi Satoh, Thanh Duc Ngo, Duc Anh Duong

Time: 14:20

PID-16:

Cross-Frequency Spectral Prediction For Compressed Image Restoration

Jingjing Fu, Feng Wu, Bing Zeng

Time: 14:20

PID-41:

Error Resilience Using Reference Frame Modification

Ramdas Satyan, Sunday Nyamweno, Burak Solak, Fabrice Labeau

Time: 14:20

PID-46:

A Novel Scalable Video Coding Scheme Using Super Resolution Techniques

Minmin Shen, Ping Xue, Ci Wang

Time: 14:20

PID-49:

Distortion Evaluation In Transform Domain For Adaptive Lifting Schemes

Sara Parrilli, Marco Cagnazzo, Béatrice Pesquet-Popescu

Time: 14:20

PID-55:

Optimal Arbitrary Shaped Pattern-Based Video Coding

Manoranjan Paul¹, Manzur Murshed

Time: 14:20

PID-58:

Multiobjective Optimization Of Multiple Scale Visual Quality Processing

Ulrich Engelke, Hans-Jürgen Zepernick

Time: 14:20

PID-66:

Image Interpolation Using Visual Attention Model And Particle Swarm Optimization
Hsuan-Ying Chen, Jin-Jang Leou

Time: 14:20

PID-71:

Improved Side Information Generation For Distributed Video Coding
Xin Huang, Søren Forchhammer

Time: 14:20

PID-73:

Adaptive Joint Spatio-Temporal Error Concealment For Video Communication
Jürgen Seiler, André Kaup

Time: 14:20

PID-75:

An Adaptive Frame Interpolation Algorithm Using Statistic Analysis Of Motions And Residual Energy
Chunbo Yang, Pin Tao, Shiqiang Yang

Time: 14:20

PID-78:

Capturing High Dynamic Range Images With Partial Re-Exposures
Benjamin Guthier, Stephan Kopf, Wolfgang Effelsberg

Time: 14:20

PID-81:

Adaptive Geometric Features Based Filtering Impulse Noise In Colour Images
Zhengya Xu, Bin Qiu, Hong Ren Wu, Xinghuo Yu

Poster Session 3: Pre/post Image/Video Processing and Coding

Time: Wednesday, 8 October 2008, 16:00 – 17:40

Place: Marlin Room 1

Time: 16:00

PID-83:

Colour Image Enhancement By Hybrid Approach
Zhengya Xu, Hong Ren Wu, Xinghuo Yu

Time: 16:00

PID-85:

Extended Motion Compensation Using Larger Blocks And An Elastic Motion Model
Abdullah A. Muhit, Mark R. Pickering, Michael R. Frater, John F. Arnold

Time: 16:00

PID-87:

Distributed Image Coding Based On Integrated Markov Random Field Modeling And Ldpc Decoding

Jinrong Zhang, Houqiang Li, Chang Wen Chen

Time: 16:00

PID-111:

4-D Frequency Selective Extrapolation For Error Concealment In Multi-View Video

Ulrich Fecker, Jürgen Seiler, André Kaup

Time: 16:00

PID-117:

Intra-Frame Video Coding Using An Open-Loop Predictive Coding Approach

Frederik Verbist, Adrian Munteanu, Jan Cornelis, Peter Schelkens

Time: 16:00

PID-125:

Increased Flexibility In Inter Picture Partitioning

Kenneth Vermeirsch, Jan De Cock, Stijn Notebaert, Peter Lambert, Rik Van De Walle

Time: 16:00

PID-131:

Seamless Mdc In P2P: A Transform-Domain Approach

Shuyuan Zhu, Bing Zeng

Time: 16:00

PID-132:

A Study Of Video-Quality Relevant Warping Parameters

Dima Pröfrock, Mathias Schlauweg, Erika Müller

Time: 16:00

PID-135:

An Optimized Multiple Description Video Codec For Lossy Packet Networks

Moyuresh Biswas, Michael R. Frater, John F. Arnold, Mark R. Pickering

Time: 16:00

PID-147:

Spatial Prediction In Distributed Video Coding Using Wyner-Ziv Dpcm

Jayanth Nayak, Gagan Rath, Denis Kubasov, Christine Guillemot

Time: 16:00

PID-151:

Fast Image Segmentation Based On K-Means Clustering With Histograms In Hsv Color Space

Tse-Wei Chen, Yi-Ling Chen, Shao-Yi Chien

Time: 16:00

PID-159:

A Convex Programming Approach For Color Stereo Matching
Wided Miled, Béatrice Pesquet-Popescu, Jean-Christophe Pesquet

Time: 16:00

PID-164:

Motion Compensated Prediction In Transform Domain Distributed Video Coding
S. Borchert, R. P. Westerlaken, R. Klein Gunnewiek, R. L. Lagendijk

Time: 16:00

PID-172:

Comparing Object Alignment Algorithms With Appearance Variation: Forward-Additive Vs Inverse-Composition
Patrick Lucey, Simon Lucey, Mark Cox, Sridha Sridharan, Jeff Cohn

Time: 16:00

PID-194:

Fast Video Object Segmentation Using Markov Random Field
Chun-Man Mak, Wai-Kuen Cham

Time: 16:00

PID-221:

Robust Object Tracking Using The Particle Filtering And Level Set Methods: A Comparative Experiment
Cheng Luo, Xiongcai Cai, Jian Zhang

Time: 16:00

PID-223:

Network Image Coding For Multicast
David Varodayan, David Chen, Bernd Girod

Time: 16:00

PID-236:

Motion Modeling With Separate Quad-Tree Structures For Geometry And Motion
Reji Mathew, David S. Taubman

Time: 16:00

PID-242:

An Efficient Video Coding Using Phase-Matched Error From Phase Correlation Information
Manoranjan Paul, Golam Sorwar

Time: 16:00

PID-229:

An Automatic And Robust Approach For Global Motion Estimation
Nafisa Tarannum, Mark R. Pickering, Michael R. Frater

Thursday, 9 October 2008

Poster Session 4: Pre/post Image/Video Processing and Coding

Time: Thursday, 9 October 2008, 10:20 – 12:00

Place: Marlin Room 1

Time: 10:20

PID-119:

Short Utterance-Based Video Aided Speaker Recognition

Anthony Larcher, Jean-Francois Bonastre, John S.D. Mason

Time: 10:20

PID-140:

Small And Dim Moving Target Detection In Deep Space Background

Jinqiu Sun, Yanning Zhang, Jiangbin Zheng, Lei Jiang, Siwei You

Time: 10:20

PID-149:

Ccl-Svc: Optimizing User Experience Of Broadcasting Video On Computation Capability Limited Handheld Devices

Jingyuan Wang, Lifeng Sun, Bin Li, Meng Zhang, Shiqiang Yang

Time: 10:20

PID-180:

Optimal Lr-Pet Protection For Scalable Video Streams Over Lossy Channels With Random Delay

Ruiqin Xiong, David Taubman

Time: 10:20

PID-181:

A Compressive Sensing Approach Of Multiple Descriptions For Network Multimedia Communication

Liangjun Wang, Xiaolin Wu, Guangming Shi

Time: 10:20

PID-235:

Coding Structure Optimization For Interactive Multiview Streaming In Virtual World Observation

Gene Cheung, Antonio Ortega, Takashi Sakamoto

Time: 10:20

PID-272:

Tcp-Friendly Congestion Control For Layered Video Streaming Using End-To-End Bandwidth Inference

Sheng-Shuen Wang, Hsu-Feng Hsiao

Time: 10:20

PID-290:

Optimal Server Bandwidth Allocation For Streaming Multiple Streams Via P2P Multicast

Aditya Mavlankar, Jeonghun Noh, Pierpaolo Baccichet, Bernd Girod

Time: 10:20

PID-297:

Low-Complexity Frame-Level Joint Source-Channel Distortion Optimal, Adaptive Intra Refresh
Sarat Chandra Vadapalli, Biswadeep Sengupta, Sriram Sethuraman

Time: 10:20

PID-322:

Sparse Approximations For Joint Source-Channel Coding
Gagan Rath, Christine Guillemot, Jean-Jacques Fuchs

Time: 10:20

PID-243:

Improved Quality Of Experience Of Reconstructed H.264/Avc Encoded Video Sequences Through
Robust Pixel Domain Error Detection
Reuben A. Farrugia, Carl J. Debono

Time: 10:20

PID-245:

Scalable Coding Of Image Collections With Embedded Descriptors
N. Adami, A. Boschetti, R. Leonardi, P. Migliorati

Time: 10:20

PID-259:

Robust Text Extraction In Mixed-Type Binary Documents
Athanasios Nikolaidis, Charalambos Strouthopoulos

Time: 10:20

PID-325:

Segmentation Of Characters On Car License Plates
Xiangjian He, Lihong Zheng, Qiang Wu, Wenjing Jia, Bijan Samali, Marimuthu Palaniswami

Time: 10:20

PID-333:

Macroblock-Based Adaptive Interpolation Filter Method Using New Filter Selection In H.264/Avc
Kun Su Yoon, Jae Ho Kim

Time: 10:20

PID-39:

Efficient Stereo Bitrate Allocation For Fully Scalable Audio Codec
Te Li, Susanto Rahardja, Soo Ngee Koh

Time: 10:20

PID-42:

Hybrid Low Bitrate Audio Coding Using Adaptive Gain Shape Vector Quantization
Sanjeev Mehrotra, Wei-Ge Chen, Kazuhito Koishida, Naveen Thumpudi

Time: 10:20

PID-79:

Selective Use Of Multiple Entropy Models In Audio Coding
Sanjeev Mehrotra, Wei-Ge Chen

Time: 10:20

PID-179:

Multivariate Autoregressive Modelling Of Multichannel Reverberant Speech
E. Cheng, I. S. Burnett, C. H. Ritz

Time: 10:20

PID-264:

Evaluation Of Interface And In-Car Speech - Many Undesirable Utterances And Sever Noisy
Speech On Car Navigation Application -

Nobuo Hataoka, Manabu Araki, Takashi Matsuda, Masayuki Takahashi, Ryoichi Ohtaki, Yasunari
Obuchi

**Poster Session 5: Bio-inspired Multimedia Signal Processing. HCI and
Speech/audio processing**

Time: Thursday, 9 October 2008, 13:10 – 14:30

Place: Marlin Room 1

Time: 13:10

PID-226:

Pedestrian Detection Based On Multi-Modal Cooperation

Yan-Ning Zhang, Xiao-Min Tong, Xiu-Wei Zhang, Jiang-Bin Zheng, Jun Zhou, Si-Wei You

Time: 13:10

PID-60:

Microscopic Cell Segmentation By Parallel Detection And Fusion Algorithm

Eric Dahai Cheng, Subhash Challa, Rajib Chakravorty, John Markham

Time: 13:10

PID-123:

Model Selection-Based Blind Channel Estimation Method For Parsimonious Mimo-Cofdm Systems

Amar A. El-Sallam

Time: 13:10

PID-126:

Adaptive Fuzzy Clustering In Constructing Parametric Images For Low Snr Functional Imaging

Lingfeng Wen, Stefan Eberl, Michael Fulham, Dagan Feng, Jing Bai

Time: 13:10

PID-138:

Sdi: New Metric For Quantification Of Speckle Noise In Ultrasound Imaging

K. R. Joshi, R. S. Kamathe

Time: 13:10

PID-185:

A New System For Computer–Aided Intraoperative Simulation And Postoperative Facial Appearance Prediction Of Orthognathic Surgery

Yan-Ning Zhang, Pei-Fang Zhai, Jian-Yu Shi, Jiang-Bin Zheng, Hong Zhou, Jiang-Bo Li

Time: 13:10

PID-203:

Efficient Block-Based Matching For Content-Based Retrieval Of Ct Head Images

Mohammad Faizal Ahmad Fauzi, Wan Siti Halimatul Munirah Wan Ahmad

Time: 13:10

PID-262:

Unsupervised Texture Segmentation And Labeling Using Biologically Inspired Features

Gaëtan Martens, Chris Poppe, Peter Lambert, Rik Van De Walle

Time: 13:10

PID-276:

Sparse Human Movement Representation And Recognition

Nikolaos Gkalelis, Anastasios Tefas, Ioannis Pitas

Time: 13:10

PID-329:

Video Forgery Detection Using Correlation Of Noise Residue

Chih-Chung Hsu, Tzu-Yi Hung, Chia-Wen Lin, Chiou-Ting Hsu

Time: 13:10

PID-23:

A Low Complexity Method For Real-Time Gaze Tracking

Jing Zhang, Mengkai Zhao, Li Zhuo, Lansun Shen

Time: 13:10

PID-198:

Accurate Visual Speech Synthesis Based On Diviseme Unit Selection And Concatenation

Dongmei Jiang, Ilse Ravayse, Hichem Sahli, Yanning Zhang

Time: 13:10

PID-267:

Joint Audio-Visual Processing, Representation And Indexing Of Tv News Programmes

Jindrich Zdansky, Josef Chaloupka, Jan Nouza

Time: 13:10

PID-291:

Periodic Signal Extraction With Frequency-Selective Amplitude Modulation And Global Time-Warping For Music Signal Decomposition

Mahdi Triki, Dirk T.M. Slock, Ahmed Triki

Time: 13:10

PID-292:

A Correntropy-Based Voice To Midi Transcription Algorithm
Mario Antonelli, Antonello Rizzi

Time: 13:10

PID-310:

Dynamic Chroma Feature Vectors With Applications To Cover Song Identification
Samuel Kim, Shrikanth Narayanan

Time: 13:10

PID-326:

Investigating Speech Features And Automatic Measurement Of Cognitive Load
Bo Yin, Natalie Ruiz, Fang Chen, Eliathamby Ambikairajah

**Poster Session 6: Joint Session: Hybrid Multimedia Signal Processing,
Medical 2D/3D Image Processing, Multimedia
Networking and Security**

Time: Thursday, 9 October 2008, 14:50 – 16:30
Place: Marlin Room 1

Time: 14:50

PID-205:

Automatic Video Object Segmentation Using Depth Information And An Active Contour Model
Y. Ma, S. Worrall, A.M. Kondoz

Time: 14:50

PID-222:

A Hybrid Object Detection Technique From Dynamic Background Using Gaussian Mixture Models
Mahfuzul Haque, Manzur Murshed, Manoranjan Paul

Time: 14:50

PID-30:

Statistical L-Infinite Distortion Estimation In Scalable Coding Of Meshes
D.C. Cernea, A. Munteanu, J. Cornelis, P. Schelkens

Time: 14:50

PID-214:

Automated Identification Of Lung Nodules
S. L. A. Lee, A. Z. Kouzani, E. J. Hu

Time: 14:50

PID-228:

Comparison Of Different Feature Extraction Techniques In Content-Based Image Retrieval For Ct
Brain Images
Wan Siti Halimatul Munirah Wan Ahmad, Mohammad Faizal Ahmad Fauzi

Time: 14:50

PID-265:

2-D Dual Multiresolution Decomposition Through Nudfb And Its Application
Nannan Ma, Hongkai Xiong, Li Song

Time: 14:50

PID-324:

Multimedia Application To The Simulation Of Human Musculoskeletal System: A Visual Lower Limb Model From Multimodal Captured Data
Nadia Magnenat-Thalmann, Caecilia Charbonnier, Jérôme Schmid

Time: 14:50

PID-128:

An Arma(1,1) Prediction Model Of First Person Shooter Game Traffic
Philip A. Branch, Antonio L. Cricenti, Grenville J. Armitage

Time: 14:50

PID-220:

Hybrid Frame-Recursive Block-Based Distortion Estimation Model For Wireless Video Transmission
Werayut Saesue, Jian Zhang, Chun Tung Chou

Time: 14:50

PID-338:

Low-Complexity Frame Importance Modelling And Resource Allocation Scheme For Error-Resilience H.264 Video Streaming
Gang Sun, Wei Xing, Dongming Lu

Time: 14:50

PID-31:

Informed Stego-Systems In Active Warden Context: Statistical Undetectability And Capacity
Sofiane Braci, Claude Delpha, Rémy Boyer, Gaëtan Le Guelvout

Time: 14:50

PID-33:

A Robust Content-Based Watermarking Technique
Mohammad Awrangjeb, Guojun Lu

Time: 14:50

PID-94:

Steganogallery: Steganographic Gallery
Hirohisa Hioki

Time: 14:50

PID-102:

Fast Johnson-Lindenstrauss Transform For Robust And Secure Image Hashing
Xudong Lv, Z. Jane Wang

Time: 14:50

PID-105:

Detecting Doubly Compressed Jpeg Images By Using Mode Based First Digit Features
Bin Li, Yun Q. Shi, Jiwu Huang

Time: 14:50

PID-158:

On The Systematic Generation Of Tardos'S Fingerprinting Codes
Minoru Kuribayashi, Naoyuki Akashi, Masakatu Morii

Time: 14:50

PID-218:

Digital Camera Identification Based On Canonical Correlation Analysis
Chi Zhang, Hongbin Zhang

Time: 14:50

PID-249:

Image Universal Steganalysis Based On Wavelet Packet Transform
Xiangyang Luo, Fenlin Liu, Jianming Chen, Yining Zhang

Time: 14:50

PID-269:

Facial Gender Recognition Using Multiple Sources Of Visual Information
Federico Matta, Usman Saeed, Caroline Mallauran, Jean-Luc Dugelay

Poster Session 7:

Joint Session: Multimedia Security, Multimedia system design, implementation & application and Standards

Time: Thursday, 9 October 2008, 16:40 – 18:00

Place: Marlin Room 1

Time: 16:40

PID-281:

A Comparative Study Of 1 Steganalyzers
Giacomo Cancelli, Gwenaël Doërr, Mauro Barni, Ingemar J. Cox

Time: 16:40

PID-289:

Reversible Watermarking Of 3D Mesh Models By Prediction-Error Expansion
Hao-Tian Wu, Jean-Luc Dugelay

Time: 16:40

PID-302:

Image Tampering Detection By Blocking Periodicity Analysis In Jpeg Compressed Images
Yi-Lei Chen, Chiou-Ting Hsu

Time: 16:40

PID-20:

Multiplierless Multi-Standard Sdr Channel Filters
Douglas L. Maskell, A.P. Vinod, Graham S. Woods

Time: 16:40

PID-59:

Developing A Smart Camera For Road Traffic Surveillance
Bei Na Wei, Yu Shi, Getian Ye, Jie Xu

Time: 16:40

PID-139:

Detecting And Recognizing Moving Pedestrians In Video
Jie Xu, Getian Ye, Gunawan Herman, Bang Zhang

Time: 16:40

PID-171:

Jpip Proxy Server For Remote Browsing Of Jpeg2000 Images
Livio Lima, David Taubman, Riccardo Leonardi

Time: 16:40

PID-275:

A Video Analysis Framework For Surveillance System
Nikom Suvonvorn

Time: 16:40

PID-287:

Optimal Camera Selection In Vision Networks For Shape Approximation
Marleen Morbee, Linda Tessens, Huang Lee, Wilfried Philips, Hamid Aghajan

Time: 16:40

PID-296:

Subjective Evaluation Of Conversational Multimedia Quality In Ip Networks
Franz Bräuer, Muhammad Sarwar Ehsan, Gernot Kubin

Time: 16:40

PID-299:

Syntactic Matching Of Pedestrian Trajectories For Behavioral Analysis
Nicola Piatto, Nicola Conci

Time: 16:40

PID-144:

Error Resilient Transcoding Of Scalable Video Bitstreams
Yi Guo, Houqiang Li, Ye-Kui Wang, Chang Wen Chen

Social Events

Lunch

Place: Terrace Room & Pool Side, Shangri-La Hotel, Cairns

Reception

Time: Wednesday, 8 October 2008, 19:00 – 21:00

Place: Kani's Restaurant
59 Esplanade, Cairns, QLD, Australia
Phone: (07) 40511550

Workshop Dinner

Time: Thursday, 9 October 2008, 19:00 – 21:00

Place: Kani's Restaurant
59 Esplanade, Cairns, QLD, Australia
Phone: (07) 40511550

Best Paper Announcement & Guest Speech

(Joint with Workshop Dinner)

Speaker: Dr. Terry Percival, Managing Lab Directors, NICTA (National ICT Australia), Australia

Time: Thursday, 9 October 2008, 19:00 – 21:00

Place: Kani's Restaurant
59 Esplanade, Cairns, QLD, Australia
Phone: (07) 40511550

Restaurant on Google Map

