

Technical Program Sessions

Tuesday, October 26

morning

PLENARY PL1

Chairs:
Alberto Del Bimbo, University of Firenze, I
Shih-Fu Chang, Columbia University, USA
Arnold Smeulders, University of Amsterdam, NL

Using the Web to do Social Science
Duncan Watts, Yahoo! Research
Chair:
Shih-Fu Chang, Columbia University, USA

ORAL SESSION

FULL F1
Content
Automatic image tagging
Chair:
Yong Rui, Microsoft Research, USA

Leveraging Loosely-Tagged Images and Inter-Object Correlations for Tag Recommendation
Yi Shen, University of North Carolina at Charlotte
Jianping Fan, University of North Carolina at Charlotte

Multi-label Boosting for Image Annotation by Structural Grouping Sparsity
Fei Wu, Zhejiang University
Yahong Han, Zhejiang University
Qi Tian, University of Texas at San Antonio
Yueting Zhuang, Zhejiang University

Unified Tag Analysis With Multi-Edge Graph
Dong Liu, Harbin Institute of Technology
Shuicheng Yan, National University of Singapore
Yong Rui, Microsoft China R&D Group
Hong-Jiang Zhang, Microsoft Advanced Technology Center

Efficient Large-Scale Image Annotation by Probabilistic Collaborative Multi-Label Propagation
Xiangyu Chen, National University of Singapore
Yadong Mu, National University of Singapore
Shuicheng Yan, National University of Singapore
Tat-Seng Chua, National University of Singapore

ORAL SESSION

FULL F2
Applications / Human-centered multimedia
User-adapted media access
Chair:
Ralf Steinmetz, University of Darmstadt, D

Sketch-Based 3D Model Retrieval using Diffusion Tensor Fields of Suggestive Contours
Sang Yoon, TU Darmstadt
Maximilian Scherer, TU Darmstadt
Tobias Schreck, TU Darmstadt
Arjan Kuijper, Fraunhofer IGD

Crowdsourced Automatic Zoom and Scroll for Video Retargeting
Axel Carlier, National University of Singapore
Vincent Charvillat, University of Toulouse
Wei Tsang Ooi, National University of Singapore
Romulus Grigoras, University of Toulouse
Geraldine Morin, University of Toulouse

Personalized Photograph Ranking and Selection System
Che-Hua Yeh, National Taiwan University
Yuan-Chen Ho, National Taiwan University
Brian Barsky, University of California, Berkeley
Ming Ouhyoung, National Taiwan University

VIDEO SESSION

VIDEO VID1
Chairs:
Shin'ichi Satoh, National Inst. Inform. Japan, J
Jenny Benois Pineau, University of Bordeaux, F

Acqua Vellutata Sospesa
Laurel Johannesson, University of Calgary

The IMMED Project: Wearable Video Monitoring of People with Age Dementia
Rémi Mégret, IMS, UMR5218 CNRS, University of Bordeaux
Vladislavs Dovgalecs, IMS, UMR5218 CNRS, University of Bordeaux
Hazem Wannous, IMS, UMR5218 CNRS, University of Bordeaux
Svebor Karaman, LaBRI, UMR 5800 CNRS, University of Bordeaux
Jenny Benois-Pineau, LaBRI, UMR 5800 CNRS, University of Bordeaux
Elie El Khoury, IRIT, UMR 5505 CNRS, University Paul Sabatier
Julien Pinquier, IRIT, UMR 5505 CNRS, University Paul Sabatier
Philippe Joly, IRIT, UMR 5505 CNRS, University Paul Sabatier
Régine André-Obrecht, IRIT, UMR 5505 CNRS, University Paul Sabatier
Yann Gaestel, ISPED, INSERM U897, Université Bordeaux 2, CHU de Bordeaux
Jean-François Dartigues, ISPED, INSERM U897, Université Bordeaux 2, CHU de Bordeaux

A Multimodal Virtual Environment for Interacting with 3D Deformable Models
Ziyang Tang, University of Texas at Dallas
Anant Patel, University of Texas at Dallas
Xiaohu Guo, University of Texas at Dallas
Balakrishnan Prabhakaran, University of Texas at Dallas

Real-Time Detection of Unusual Regions in Image Streams
Rene Schuster, Joannesum Research
Roland Mözinger, Joannesum Research
Werner Haas, Joannesum Research
Helmut Grabner, ETH Zurich
Luc Van Gool, ETH Zurich

Video Exploration: From Multimedia Content Analysis to Interactive Visualization

Marie-Luce Viaud, INA
 Olivier Buisson, INA
 Agnes Saulnier, INA
 Clement Guenais, INA

A 3D Data Intensive Tele-immersive Grid

Benjamin PETIT, INRIA – LIG
 Thomas Dupeux, INRIA – LIG
 Benoit Bossavit, INRIA – LABRI
 Joelfrey Legaux, Université d'Orléans
 Bruno Raffin, INRIA – LIG
 Emmanuel Melin, Université d'Orléans
 Jean-Sébastien Franco, INRIA – Labri
 Ingo Assenmacher, INRIA – LIG
 Edmond Boyer, INRIA – LJK

Real-Time Soccer Player Tracking Method by Utilizing Shadow Regions

Nozomu Kasuya, University of Tsukuba
 Itaru Kitahara, University of Tsukuba
 Yoshinari Kameda, University of Tsukuba
 Yuichi Ohta, University of Tsukuba

The MediaMill Search Engine Video

Cees Snoek, University of Amsterdam

ORAL SESSION**BRAVE NEW IDEAS BNI1**

Chair:
 Nozha Boujemaa, INRIA Roquencourt, F

The Wisdom of Social Multimedia: Using Flickr For Prediction and Forecast

Xin Jin, University of Illinois at Urbana-Champaign
 Andrew Gallagher, Kodak Research Laboratories
 Liangliang Cao, University of Illinois at Urbana-Champaign
 Jiebo Luo, Kodak Research Laboratories
 Jiawei Han, University of Illinois at Urbana-Champaign

Multimodal Location Estimation

Gerald Friedland, International Computer Science Institute
 Oriol Vinyals, International Computer Science Institute

Video Genetics: A Case Study from YouTube

John Kender, Columbia University
 Matthew Hill, IBM Research
 Apostol Natsev, IBM Research
 John Smith, IBM Research
 Lexing Xie, IBM Research

Content Without Context is Meaningless

Ramesh Jain, University of California, Irvine
 Pinaki Sinha, University of California, Irvine

POSTER SESSION**SHORT S1**

Applications / Human-centered multimedia

Chair:
 Marcel Worring, University of Amsterdam, NL

Movie2Comics: A Feast of Multimedia Artwork

Richang Hong, School of Computing, National University of Singapore
 Xiao-Tong Yuan, Dept. of ECE, National University of Singapore
 Mengdi Xu, Dept. of ECE, National University of Singapore
 Meng Wang, Akiira Media Systems Inc.
 Shuicheng Yan, Dept. of ECE, National University of Singapore
 Tat-Seng Chua, School of Computing, National University of Singapore

NudgeCam: Toward targeted, higher quality media capture

Scott Carter, FX Palo Alto Laboratory
 John Adcock, FX Palo Alto Laboratory
 John Doherty, FX Palo Alto Laboratory
 Stacy Branham, Virginia Tech

Tagging Tags

Kuiyuan Yang, University of Science and Technology of China
 Xian-Sheng Hua, Microsoft Research Asia
 Meng Wang, AKiRA Media Systems Inc
 Hong-Jiang Zhang, Microsoft Adv. Tech. Center

i-m-Space: Interactive Multimedia-Enhanced Space for Rehabilitation of Breast Cancer Patients

Ju-Chun Ko, Graduate Institute of Networking and Multimedia, National Taiwan University
 Wei-Han Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
 Meng-Chieh Yu, Graduate Institute of Networking and Multimedia, National Taiwan University
 Han-Hung Lin, Graduate Institute of Networking and Multimedia, National Taiwan University
 Jin-Yao Lin, Graduate Institute of Networking and Multimedia, National Taiwan University
 Szu-Wei Wu, Department of Computer Science and Information Engineering, National Taiwan University
 Yi-Yu Chung, Department of Computer Science and Information Engineering, National Taiwan University
 I-Ling Hu, Department of Computer Science and Information Engineering, National Taiwan University
 Wei-Ting Peng, Graduate Institute of Networking and Multimedia, National Taiwan University
 Shih-Yao Lin, Graduate Institute of Networking and Multimedia, National Taiwan University
 Chia Han Chang, Graduate Institute of Networking and Multimedia, National Taiwan University
 Pei-Hsuan Chou, Graduate Institute of Networking and Multimedia, National Taiwan University
 King-Jen Chang, College of Medical, National Taiwan University
 Mei-Lan Chang, Foundation of Breast Cancer Prevention and Treatment, Taiwan
 Sue-huei Chen, Department of Psychology, National Taiwan University
 Jin-Shing Chen, College of Medical, National Taiwan University
 Ming-Sui Lee, Graduate Institute of Networking and Multimedia, National Taiwan University
 Mike Y. Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
 Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University

A Music Search Engine for Therapeutic Gait Training

Zhonghua Li, National University of Singapore
 Qiaoliang Xiang, National University of Singapore
 Jason Hockman, McGill University
 Jianqing Yang, National University of Singapore
 Yu Yi, National University of Singapore
 Ichiro Fujinaga, McGill University
 Ye Wang, National University of Singapore

Real-World Trajectory Extraction for Attack Pattern Analysis in Soccer Video

Zhenxing Niu, Xidian University
 Qi Tian, University of Texas at San Antonio
 Xinbo Gao, Xidian University

Tag Transformer

Yicheng Song, Institute of Computing Technology, Chinese Academy of Science
 Juan Cao, Institute of Computing Technology, Chinese Academy of Science
 Zhiheng Chen, Institute of Computing Technology, Chinese Academy of Science
 Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Science
 Jintao Li, Institute of Computing Technology, Chinese Academy of Science

Gaze Awareness and Interaction Support in Presentations

Kar-Han Tan, Hewlett-Packard Laboratories
 Dan Gelb, Hewlett-Packard Laboratories
 Ramin Samadani, Hewlett-Packard Laboratories
 Ian Robinson, Hewlett-Packard Laboratories
 Bruce Culbertson, Hewlett-Packard Laboratories
 John Apostolopoulos, Hewlett-Packard Laboratories

Digesting Omni-video along Routes for Navigation

Hongyuan Cai, Indiana University Purdue University Indianapolis
 Jiang Yu Zheng, Indiana University Purdue University Indianapolis

Building Book Inventories using Smartphones

David Chen, Stanford University
 Sam Tsai, Stanford University
 Cheng-Hsin Hsu, Deutsche Telekom R&D Laboratories USA
 Kyu-Han Kim, Deutsche Telekom R&D Laboratories USA
 Jatinder Singh, Deutsche Telekom R&D Laboratories USA
 Bernd Girod, Stanford University

Templated Recursive Image Composition

C. Atkins, Hewlett-Packard Laboratories
 Nicholas Lyons, Hewlett-Packard Laboratories
 Xuemei Zhang, Hewlett-Packard Laboratories
 Daniel Tretter, Hewlett-Packard Laboratories

Putting the pieces together: Multimodal Analysis of Social Attention in Meetings

Ramanathan Subramanian, University of Trento, Italy
 Jacopo Staiano, University of Trento, Italy
 Kyriaki Kalimeri, Fondazione Bruno Kessler
 Nicu Sebe, University of Trento, Italy
 Fabio Pianesi, Fondazione Bruno Kessler

AIR Conferencing: Accelerated Instant Replay for In-Meeting Multimodal Review

Kori Inkpen, Microsoft Research
 Rajesh Hegde, Microsoft Research
 Sasa Junuzovic, Microsoft Research
 Christopher Brooks, University of Saskatchewan
 John Tang, Microsoft Research
 Zhengyou Zhang, Microsoft Research

Making Computers Look the Way We Look: Exploiting Visual Attention for Image Understanding

Harish Katti, National University of Singapore
 Ramanathan Subramanian, University of Trento
 Mohan Kankanhalli, National University of Singapore
 Nicu Sebe, University of Trento
 Tat-Seng Chua, National University of Singapore
 Kalpathi Ramakrishnan, Indian Institute of Science

MOGLASS: A Collaborative System of Mobile Devices for Classroom Music Education

Yinsheng Zhou, National University of Singapore
 Graham Percival, National University of Singapore
 Xinxu Wang, National University of Singapore
 Ye Wang, National University of Singapore
 Shengdong Zhao, National University of Singapore

Adaptive Combination of Tag and Link-based User Similarity in Flickr

Hai Phan, Konkuk University
 Thong Hoang, Konkuk University
 Hyoseop Shin, Konkuk University

Multi-Display Map Touring with Tangible Widget

Marco Piovesana, Dept. of Math and Computer Science, University of Udine
 Ying-Jui Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
 Neng-Hao Yu, Graduate Institute of Networking and Multimedia, National Taiwan University
 Hsiang-Tao Wu, Graduate Institute of Networking and Multimedia, National Taiwan University
 Li-Wei Chan, Graduate Institute of Networking and Multimedia, National Taiwan University
 Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University

Stray: A New Multimedia Music Composition using the Andanteophone

Ryan Janzen, University of Toronto
 Steve Mann, University of Toronto

A User Study of Visual versus Sonically-enhanced Interfaces for Use while Walking

Yaohua Yu, Dalian Maritime University
 Zhengjie Liu, Dalian Maritime University

Fast Image Rearrangement via Multi-Scale Patch Copying

Jiayao Hu, University of Science and Technology of China
 Shifeng Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences
 Jianzhuang Liu, The Chinese University of Hong Kong
 Xiaou Tang, The Chinese University of Hong Kong

Learning Parts-based Representation for Face Transition

Xiong Li, Shanghai Jiao Tong University
 Liwei Wang, Shanghai Jiao Tong University
 Huanxi Liu, Shanghai Jiao Tong University
 Yuncai Liu, Shanghai Jiao Tong University

Gesture and Touch Controlled Video Player Interface for Mobile Devices

Shelley Buchinger, University of Vienna
 Francesca De Simone, Ecole Polytechnique Fédérale de Lausanne
 Ewald Hotop, University of Vienna
 Helmut Hlavacs, University of Vienna
 Touradj Ebrahimi, Ecole Polytechnique Fédérale de Lausanne

Eyes Do Not Lie: Spontaneous versus Posed Smiles

Hamdi Dibeklioglu, University of Amsterdam
 Roberto Valenti, University of Amsterdam
 Albert Salah, University of Amsterdam
 Theo Gevers, University of Amsterdam

DEMO SESSION**DEMO D1**

Chair:
 Daniel Gatica-Perez, IDIAP Research Institute, CH

Crowdsourcing Rock N' Roll Multimedia Retrieval

Cees Snoek, University of Amsterdam
 Bauke Freiburg, Video Dock
 Johan Oomen, Netherlands Institute for Sound and Vision
 Roeland Ordelman, University of Twente

Media Distribution over 2D Communication Sheet

Yuiti Kado, National Institute of Information and Communications Technology
 Bing Zhang, National Institute of Information and Communications Technology
 Jiang Yu Zheng, Indiana University Purdue University Indianapolis

Melog

Hongzhi Li, Zhejiang University
 Xian-Sheng Hua, Microsoft Research Asia
 Xijia Liu, Tsinghua University

Color and Luminance Compensation for Mobile Panorama Construction

Yingen Xiong, Nokia Research Center
 Kari Pulli, Nokia Research Center

iPhotobook: Creating Photo Books on Mobile Devices

Jun Xiao, HP Labs
 Nic Lyons, HP Labs
 Brian Atkins, HP Labs
 Yuli Gao, HP Labs
 Hui Chao, HP Labs
 Xuemei Zhang, HP labs

Blog2Book – Transforming Blogs into Photo Books Employing Aesthetic Principles

Philipp Sandhaus, OFFIS – Institute for Information Technology
 Mohammad Rabbath, OFFIS – Institute for Information Technology
 Ilija Erbs, University of Oldenburg
 Susanne Boll, University of Oldenburg

TagCaptcha: Annotating images with CAPTCHAs

Donn Morrison, Université de Genève
 Stéphane Marchand-Maillet, Université de Genève
 Eric Bruno, Université de Genève

afternoon

PANEL PA1*The Use of Non-conventional Means for Content Media Analysis and Understanding*

Chairs:
 Ed Chang, Google Corp., CN
 Tat-Seng Chua, National University of Singapore, SG

ORAL SESSION**FULL F3**

Content
Classification of content elements
 Chair:
 Rita Cucchiara, University of Modena, I

Affective Image Classification using Features Inspired by Psychology and Art Theory

Jana Machajdik, Vienna University of Technology
 Allan Hanbury, Information Retrieval Facility

CO3 for Ultra-fast and Accurate Interactive Segmentation

Yibiao Zhao, Beijing Jiaotong University; Lotus Hill Research Institute
 Song-Chun Zhu, Lotus Hill Research Institute, University of California Los Angeles
 Siwei Luo, Beijing Jiaotong University, University of California Los Angeles

A Generic Framework for Event Detection in Various Video Domains

Tianzhu Zhang, Institute of Automation, Chinese Academy of Sciences
 Changsheng Xu, Institute of Automation, Chinese Academy of Sciences
 Guangyu Zhu, National University of Singapore
 Si Liu, Institute of Automation, Chinese Academy of Sciences
 Hanqing Lu, Institute of Automation, Chinese Academy of Sciences

Image Segmentation with Patch-Pair Density Priors

Xiaobai Liu, Huazhong University of Science and Technology
 Jiashi Feng, National University of Singapore
 Shuicheng Yan, National University of Singapore
 Hai Jin, Huazhong University of Science and Technology

ORAL SESSION**FULL F4**

Applications
Applications of geo-tagging
 Session Chair
 Touradj Ebrahimi, EPFL, CH

W2Go: A Travel Guidance System by Automatic Landmark Ranking

Yue Gao, Tsinghua University
 Jinhui Tang, National University of Singapore
 Richang Hong, National University of Singapore
 Qionghai Dai, Tsinghua University
 Tat-Seng Chua, National University of Singapore
 Ramesh Jain, University of California, Irvine

Mining People's Trips from Large Scale Geo-tagged Photos

Yuki Arase, Microsoft Research Asia
 Xing Xie, Microsoft Research Asia
 Takahiro Hara, Osaka University
 Shojiro Nishio, Osaka University

Photo2Trip: Generating Travel Routes from Geo-Tagged Photos for Trip Planning

Xin Lu, Tianjin University
 Changhu Wang, Microsoft Research Asia
 Jiang-Ming Yang, Microsoft Corporation
 Yanwei Pang, Tianjin University
 Lei Zhang, Microsoft Research Asia

Retrieving Landmark and Non-Landmark Images from Community Photo Collections

Yannis Avrithis, National Technical University of Athens
 Yannis Kalantidis, National Technical University of Athens
 Giorgos Tolias, National Technical University of Athens
 Evaggelos Splyrou, National Technical University of Athens

DOCTORAL SYMPOSIUM DS1

Chairs:

Susanne Boll, University of Oldenburg, D
Carlo Colombo, University of Firenze, I*Free-hand Sketch Based Image and Video Retrieval*
Rui Hu, University of Surrey*Automatic and Manual Processes in End-User Multimedia Authoring Tools: Where is the Balance?*
Rodrigo Laiola Guimarães, CWI: Centrum Wiskunde & Informatica*Analysis and Classification of Conversational Interactions*
Anna Pesarin, Dipartimento di Informatica, University of Verona*FlashBoost: Design of Flash Memory Buffer Cache Mechanism for Video-on-Demand*
Moonkyung Ryu, Georgia Institute of Technology*Interoperable and Unified Multimedia Retrieval in Distributed and Heterogeneous Environments*
Florian Stegmaier, University of Passau**POSTER SESSION****SHORT S2**

Content / Systems

Chair:

Zhengyou Zhang, Microsoft, USA

Integrating Web 2.0 Resources By Wikipedia
Chen Liu, NUS
Bing Cui, Peking University
Anthony K.H. Tung, NUS*Viccept: Link Visual Features to Concepts for Large-scale Image Understanding*
Zhipeng Wu, Graduate University, Chinese Academy of Sciences
Shuqiang Jiang, Key Lab of Intell. Info. Process., Inst. of Comput. Tech., Chinese Academy of Sciences
Liang Li, Key Lab of Intell. Info. Process., Inst. of Comput. Tech., Chinese Academy of Sciences
Peng Cui, Key Lab of Intell. Info. Process., Inst. of Comput. Tech., Chinese Academy of Sciences
Qingming Huang, Graduate University, Chinese Academy of Sciences
Wen Gao, Institute for Digital Media, Peking University*Analyzing and Predicting Sentiment of Images on the Social Web*
Stefan Siersdorfer, Universität Hannover
Jonathon Hare, University of Southampton
Enrico Minack, Universität Hannover
Fan Deng, Universität Hannover*Landmark Image Classification Using 3D Point Clouds*
xian xiao, National Lab of Pattern Recognition, Institute of Automation, CAS
changsheng xu, National Lab of Pattern Recognition, Institute of Automation, CAS
jinqiao wang, National Lab of Pattern Recognition, Institute of Automation, CAS*Portfolio Theory of Multimedia Fusion*
Xiangyu Wang, National University of Singapore
Mohan Kankanhalli, National University of Singapore*Exploiting Noisy Visual Concept Detection to Improve Spoken Content based Video Retrieval*
Stevan Rudinac, Multimedia Information Retrieval Lab, Delft University of Technology
Martha Larson, Multimedia Information Retrieval Lab, Delft University of Technology
Alan Hanjalic, Multimedia Information Retrieval Lab, Delft University of Technology*End-to-end Stochastic Scheduling of Scalable Video OverTime-Varying Channels*
Nesrine changuel, Alcatel Lucent Bell Labs France
Nicholas Mastrorarde, University of California Los Angeles (UCLA)
Mihaela Van derSchaar, University of California Los Angeles (UCLA)
Bessem Sayadi, Alcatel lucent Bell Labs France
Michel Kieffer, LTI, CNRS-Télécom ParisTech*Context Dependent SVMs for Interconnected Image Network Annotation*
Hichem Sahbi, CNRS TELECOM ParisTech
Xi Li, CNRS TELECOM ParisTech*A Novel Video Hash Algorithm*
Li Weng, Katholieke Universiteit Leuven
Bart Preneel, Katholieke Universiteit Leuven*Age Classification for Pose Variant and Occluded Faces*
Wei-Ta Chu, National Chung Cheng University
Wen-Long Liu, National Chung Cheng University
Jen-Yu Yu, Industrial Technology Research Inst.*Movie Genre Classification via Scene Categorization*
Howard Zhou, Georgia Institute of Technology
Tucker Hermans, Georgia Institute of Technology
Asmita Karandikar, Georgia Institute of Technology
James Rehg, Georgia Institute of Technology*Unsupervised Summarization of Rushes Videos*
Yang Liu, The Hong Kong Polytechnic University
Feng Zhou, Carnegie Mellon University
Wei Liu, Carnegie Mellon University
Fernando De la Torre, Carnegie Mellon University
Yan Liu, The Hong Kong Polytechnic University*Negotiating Multimedia Advertising with Attention Owners*
Yue Zhang, cfactor Works
Nadeem Jamali, University of Saskatchewan*ReDi: An Interactive Virtual Display System for Ubiquitous Devices*
Wen Sun, University of Science and Technology of China
Yan Lu, Microsoft Research Asia
Shipeng Li, Microsoft Research Asia*A Proxy-Based Mobile Web Browser*
Huifeng Shen, Microsoft Research Asia
Zhaotai Pan, University of Science & Technology of China
Haicheng Sun, Microsoft Research Asia
Yan Lu, Microsoft Research Asia
Shipeng Li, Microsoft Research Asia*Optimal Collusion Attack for Digital Fingerprinting*
Hui Feng, Huazhong University of Science and Technology
Hefei Ling, Huazhong University of Science and Technology
Fuhao Zou, Huazhong University of Science and Technology
Weiqi Yan, Queen's University Belfast
Zhengding Lu, Huazhong University of Science and Technology

Novel Framework for Single/Multi-Frame Super-Resolution using Sequential Monte Carlo Method

Toshie Misu, NHK (Japan Broadcasting Corporation)
 Yasutaka Matsuo, NHK (Japan Broadcasting Corporation)
 Shinichi Sakaide, NHK (Japan Broadcasting Corporation)
 Yoshiaki Shishikui, NHK (Japan Broadcasting Corporation)

Similarity Content Search in Content Centric Networks

Petros Daras, Centre for Research and Technology Hellas
 Theodoros Semertzidis, Centre for Research and Technology Hellas
 Lambros Makris, Centre for Research and Technology Hellas
 Michael Strintzis, Centre for Research and Technology Hellas

Accelerated IPTV Channel Change with Transcoded Unicast Bursting

Zhi Li, Stanford University
 Ali Begeen, Cisco Systems Inc.
 Xiaoqing Zhu, Cisco Systems Inc.
 Bernd Girod, Stanford University

QoE-based Rate Adaptation Scheme Selection for Resource-constrained Wireless Video Transmission

Srisakul Thakolsri, Docomo Euro-Labs
 Wolfgang Kellerer, Docomo Euro-Labs
 Eckehard Steinbach, Technische Universitaet Muenchen

Precise Indoor Localization Using Smart Phones

Eladio Martin, University of California, Berkeley
 Oriol Vinyals, International Computer Science Institute
 Gerald Friedland, International Computer Science Institute
 Ruzena Bajcsy, University of California, Berkeley

Trading Bandwidth for Playback Lag: Can Active Peers Help?

Dongbo Huang, Fudan University
 Jin Zhao, Fudan University
 Xin Wang, Fudan University

3D Video Transcoding for Virtual Views

Shujie Liu, State University of New York at Buffalo
 Chang Wen Chen, State University of New York at Buffalo

Pull-Patching: A Combination of Multicast and Adaptive Segmented HTTP Streaming

Espen Jacobsen, University of Oslo / Simula
 Carsten Griwodz, University of Oslo / Simula
 Pål Halvorsen, University of Oslo / Simula

Beyond GPS: Determining the Camera Viewing Direction of A Geotagged Image

Minwoo Park, The Pennsylvania State University
 Jiebo Luo, Eastman KODAK
 Robert Collins, The Pennsylvania State University
 Yanxi Liu, The Pennsylvania State University

DEMO SESSION**DEMO D2**

Chair:
 James Lynch, Navteq Corp., USA

A Technical Demonstration of Large-Scale Image Object Retrieval by Efficient Query Evaluation and Effective Auxiliary Visual Feature Discovery

Yin-Hsi Kuo, National Taiwan University
 Yi-Lun Wu, National Taiwan University
 Kuan-Ting Chen, National Taiwan University
 Yi-Hsuan Yang, National Taiwan University
 Tzu-Hsuan Chiu, National Taiwan University
 Winston Hsu, National Taiwan University

SIVA Suite

Britta Meixner, University of Passau
 Beate Siegel, University of Passau
 Günter Höbbling, University of Passau
 Franz Lehner, University of Passau
 Harald Kosch, University of Passau

Integrated Mobile Visualization and Interaction of Events and POIs

Daniel Schmeiß, University of Koblenz-Landau
 Ansgar Scherp, University of Koblenz-Landau
 Steffen Staab, University of Koblenz-Landau

3D Ancient Mosaics

Sebastiano Battiato, University of Catania
 Giovanni Puglisi, University of Catania

Training Data Collection System for a Learning-based Photographic Aesthetic Quality Inference Engine

Razvan Orendovici, The Pennsylvania State University
 James Wang, The Pennsylvania State University

Photo2Trip: An Interactive Trip Planning System Based on Geo-Tagged Photos

Huagang Yin, University of Science and Technology of China
 Xin Lu, Tianjing University
 Changhu Wang, Microsoft Research Asia
 Nenghai Yu, University of Science and Technology of China
 Lei Zhang, Microsoft Research Asia

Coming Together – Negotiated Content by Multi-agents

Arne Eigenfeldt, Simon Fraser University

Mobile Product Recognition

Sam Tsai, Stanford University
 David Chen, Stanford University
 Vijay Chandrasekhar, Stanford University
 Gabriel Takacs, Stanford University
 Ngai-Man Cheung, Stanford University
 Ramakrishna Vedantham, Nokia Research Center
 Radek Grzeszczuk, Nokia Research Center
 Bernd Girod, Stanford University

ORAL SESSION**FULL F5**

Content
Learning concepts in images

Chair:
 Alan Smeaton, University of Dublin, IRL

S3MKL: Scalable Semi-supervised Multiple Kernel Learning for Image Data Mining

Shuhui Wang, Institute of Computing Technology, Chinese Academy of Sciences
 Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences
 Qingming Huang, Graduate University, Chinese Academy of Sciences
 Qi Tian, University of Texas at San Antonio

Discriminative Codeword Selection for Image Representation

Lijun Zhang, Zhejiang University
 Chun Chen, Zhejiang University
 Jiajun Bu, Zhejiang University
 Zhengguang Chen, Zhejiang University
 Shulong Tan, Zhejiang University
 Xiaofei He, Zhejiang University

Supervised Reranking for Web Image Search

Linjun Yang, Microsoft Research Asia
 Alan Hanjalic, Delft University of Technology

ORAL SESSION**INTERACTIVE ART IA1**

Cultural heritage tools

Chair:

James Wang, Penn-State University, USA

Determining the Sexual Identities of Prehistoric Cave Artists using Digitized Handprints

James Wang, The Pennsylvania State University
 Weina Ge, The Pennsylvania State University
 Dean Snow, The Pennsylvania State University
 Prasenjit Mitra, The Pennsylvania State University
 C. Giles, The Pennsylvania State University

Enhanced Exploration of Oral History Archives through Processed Video and Synchronized Text Transcripts

Michael Christel, Carnegie Mellon University
 Scott Stevens, Carnegie Mellon University
 Bryan Maher, Carnegie Mellon University
 Julieanna Richardson, The HistoryMakers

Surfing on Artistic Documents with Visually Assisted Tagging

Costantino Grana, University of Modena e Reggio Emilia
 Daniele Borghesani, University of Modena e Reggio Emilia
 Rita Cucchiara, University of Modena e Reggio Emilia

DISCUSSION ROOM DR1

Chairs:

Ramesh Jain, University of California at Irvine, USA

Forouzan Golshani, California State University at Long Beach, USA

Towards a Universal Detector by Mining Concepts with Small Semantic Gaps

Jiashi Feng, National University of Singapore
 Yan-tao Zheng, Institute for Infocomm Research
 Shuicheng Yan, National University of Singapore

Intelligent Query: Open Another Door to 3D Object Retrieval

Yue Gao, Tsinghua University
 Meng Wang, AKiIRA Media Systems Inc.
 Jialie Shen, Singapore Management University
 Qionghai Dai, Tsinghua University
 Naiyao Zhang, Tsinghua University

Interactive Storytelling via Video Content Recombination

Julie Porteous, Teesside University
 Sergio Benini, University of Brescia
 Luca Canini, University of Brescia
 Fred Charles, Teesside University
 Marc Cavazza, Teesside University
 Riccardo Leonardi, University of Brescia

ORAL SESSION**FULL F6**

Systems

Improving media delivery

Session Chair

Shervin Shirmohammadi, University of Ottawa, CA

Tenor: Making Coding Practical from Servers to Smartphones

Hassan Shojania, University of Toronto
 Baochun Li, University Of Toronto

Improving Online Gaming Quality using Detour Paths

Cong Ly, Simon Fraser University
 Cheng-Hsin Hsu, Deutsche Telekom Inc.
 Mohamed Hefeeda, Simon Fraser University

Subjective Evaluation of Scalable Video Coding for Content Distribution

Jong-Seok Lee, EPFL
 Francesca De Simone, EPFL
 Naeem Ramzan, Queen Mary University of Londo
 Zhijie Zhao, Leibniz Universität Hannover
 Engin Kurupe, TU Berlin
 Thomas Sikora, TU Berlin
 Jörn Ostermann, Leibniz Universität Hannover
 Ebroul Izquierdo, Queen Mary University of London
 Touradj Ebrahimi, EPFL

Self-Diagnostic Peer-Assisted Video Streaming through a Learning Framework

Di Niu, University of Toronto
 Baochun Li, University of Toronto
 Shuqiao Zhao, UUSee, Inc.

POSTER SESSION**SHORT S3**

Applications / Content

Chair:

Max Muehlhaeuser, University of Darmstadt, D

K-way Min-Max Cut for Image Clustering and Junk Images Filtering from Google Images

Feng Xie, State Key Lab of CAD&CD / Zhejiang University
 Yi Shen, UNC-Charlotte
 Xiaofei He, State Key Lab of CAD&CD / Zhejiang University

Smart Video Systems in Police Cars

Amirali Jazayeri, Indiana University Purdue University Indianapolis (IUPUI)
 Hongyuan Cai, Indiana University Purdue University Indianapolis (IUPUI)
 Mihran Tuceryan, Indiana University Purdue University Indianapolis (IUPUI)
 Jiang Zheng, Indiana University Purdue University Indianapolis (IUPUI)

Interactive Inquiry for Object of Interest in Video Playback by Motion-Augmented Graph Cut

Po-Nung Tseng, National Taiwan University
 Yen-Liang Lin, National Taiwan University
 Winston Hsu, National Taiwan University

GPS, Compass, or Camera?: Investigating Effective Mobile Sensors for Automatic Search-Based Image Annotation

An-Jung Cheng, National Taiwan University
 Fang-Erh Lin, National Taiwan University
 Yin-Hsi Kuo, National Taiwan University
 Winston Hsu, National Taiwan University

TwitterSigns: Microblogging on the Walls

Markus Buzcek, University of Münster
 Jörg Müller, TU Berlin

Multi-exposure Imaging on Mobile Devices

Natasha Gelfand, Nokia Research
 Andrew Adams, Stanford University
 Sung Hee Park, Stanford University
 Kari Pulli, Nokia Research

Towards Aesthetics: a Photo Quality Assessment and Photo Selection System

Congcong Li, Cornell University
 Alexander Loui, Eastman Kodak Company
 Tshuan Chen, Cornell University

Cast2Face: Character Identification in Movie with Actor-Character Correspondence

Mengdi Xu, National University of Singapore
 Xiaotong Yuan, National University of Singapore
 Jialie Shen, Singapore Management University
 Shuicheng Yan, National University of Singapore

Visual Security Evaluation for Video Encryption

Lingling Tong, Institute of Computing Technology, Chinese Academy of Sciences
 Feng Dai, Institute of Computing Technology, Chinese Academy of Sciences
 Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Sciences
 Jintao Li, Institute of Computing Technology, Chinese Academy of Sciences

Automatic Trailer Generation

Go Irie, NTT Corporation
 Takashi Satou, NTT Corporation
 Akira Kojima, NTT Corporation
 Toshihiko Yamasaki, The University of Tokyo
 Kiyoharu Aizawa, The University of Tokyo

Extracting Captions from Videos Using Temporal Feature

Xiaoqian Liu, Graduate University of Chinese Academy of Sciences
 Weiqiang Wang, Key Lab of Intell. Info. Process. Inst. of Comput. Tech.

Automatic Role Recognition Based on Conversational and Prosodic Behaviour

Hugues Salamin, University of Glasgow
 Khiet Truong, University of Twente
 Gelareh Mohammadi, Idiap Research Institute
 Alessandro Vinciarelli, University of Glasgow

VERT: Automatic Evaluation of Video Summaries

Yingbo Li, EURECOM
 Bernard Meriardo, EURECOM

Character-Based Movie Summarization

Jitao Sang, Institute of Automation, Chinese Academy of Sciences
 Changsheng Xu, Institute of Automation, Chinese Academy of Sciences

Supervised Manifold Learning for Image and Video Classification

Yang Liu, The Hong Kong Polytechnic University
 Yan Liu, The Hong Kong Polytechnic University
 Keith C.C. Chan, The Hong Kong Polytechnic University

Unsupervised Object Category Discovery via Information Bottleneck Method

Zhengzheng Lou, School of Information Engineering, Zhengzhou University
 Yangdong Ye, School of Information Engineering, Zhengzhou University
 Dong Liu, School of Computer Sci. & Tec., Harbin Institute of Technology

Probabilistic Visual Concept Trees

Lexing Xie, IBM Research
 Rong Yan, Facebook
 Jelena Tesic, Mayachitra
 Apostol Natsev, IBM Research
 John Smith, IBM Research

A Conditional Random Field Viewpoint of Symbolic Audio-to-Score Matching

Cyril Joder, Institut Telecom – Telecom ParisTech – CNRS/LTCl
 Slim Essid, Institut Telecom – Telecom ParisTech – CNRS/LTCl
 Gaël Richard, Institut Telecom – Telecom ParisTech – CNRS/LTCl

Bilingual Query Translation and Expansion for Supporting More Effective Cross-Language Image Retrieval

Yuejie Zhang, Fudan University
 Lei Cen, Fudan University
 Jin Cheng, Fudan University
 Xiangyang Xue, Fudan University
 Ning Zhou, UNC-Charlotte

The Idiap Wolf Corpus: Exploring group behaviour in a competitive role-playing game

Hayley Hung, University of Amsterdam
 Gokul Chittaranjan, Idiap Research Institute

Face Hallucination with Shape Parameters Projection Constraint

Chengdong Lan, Wuhan University
 Ruimin Hu, Wuhan University
 Kebin Huang, Wuhan University
 Zhen Han, Wuhan University

Automatic Detection of Malicious Sound Using Segmental Two-Dimensional Mel-Frequency Cepstral Coefficients and Histograms of Oriented Gradients

Myung Jong Kim, Korea Advanced Institute of Science and Technology (KAIST)
 Younggwon Kim, Korea Advanced Institute of Science and Technology (KAIST)
 JaeDeok Lim, Electronics and Telecommunications Research Institute (ETRI)
 Hoirin Kim, Korea Advanced Institute of Science and Technology (KAIST)

Automatic Interesting Object Extraction From Images Using Complementary Saliency Maps

Haonan Yu, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
 Jia Li, Key Lab of Intell. Info. Process. Inst. of Comput. Tech., Chinese Academy of Sciences, China
 Yonghong Tian, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
 Tiejun Huang, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University

Interactive Retrieval of Targets for Wide Area Surveillance

Saad Ali, Sarnoff Corp.
 Omar Javed, Sarnoff Corp.
 Neils Haering, ObjectVideo Inc.
 Takeo Kanade, Robotics Institute, Carnegie Mellon University

DEMO SESSION**DEMO D3**

Chair:
Kiyoharu Aizawa, University of Tokyo, J

Joke-o-mat HD: Browsing Sitcoms with Human Derived Transcripts
Adam Janin, International Computer Science Institute
Luke Gottlieb, International Computer Science Institute
Gerald Friedland, International Computer Science Institute

Multi-exposure Imaging on Mobile Devices (Demo)

Natasha Gelfand, Nokia Research
Andrew Adams, Stanford University
Sung Hee Park, Stanford University
Kari Pulli, Nokia Research

iComics: Automatic Conversion of Movie into Comics

Richang Hong, School of Computing, National University of Singapore
Meng Wang, Akira Media Systems Inc.
Guangda Li, School of Computing, National University of Singapore
Xiao-Tong Yuan, Dept. of ECE, National University of Singapore
Shuicheng Yan, Dept. of ECE, National University of Singapore
Tat-Seng Chua, School of Computing, National University of Singapore

vESP: Enriching Enterprise Document Search Results with Aligned Video Summarization

Pål Halvorsen, University of Oslo / Simula
Dag Johansen, University of Tromsø
Bjørn Olstad, Microsoft
Tomas Kupka, University of Oslo
Sverre Tennøe, Microsoft

MindFinder: Interactive Sketch-based Image Search on Millions of Images

Yang Cao, Shanghai Jiao Tong University
Hai Wang, University of Science and Technology of China
Changhu Wang, Microsoft Research Asia
Zhiwei Li, Microsoft Research Asia
Liqing Zhang, Shanghai Jiao Tong University
Lei Zhang, Microsoft Research Asia

Facilitating Interactive Search and Navigation in Videos

Klaus Schoeffmann, Klagenfurt University

BIOFACE, a Biometric Face Demonstrator

Mourad Ouaret, Orange, France-Telecom R&D
Antitza Dantcheva, Eurecom
Rui Min, Eurecom
Lionel Daniel, Eurecom
Jean Luc Dugelay, Eurecom

ClustTour: City Exploration by use of Hybrid Photo Clustering

Symeon Papadopoulos, Informatics & Telematics Inst.
Christos Zigkolis, Informatics & Telematics Inst.
Stefanos Kapiiris, Aristotle University
Yiannis Kompatsiaris, Informatics & Telematics Inst.
Athena Vakali, Aristotle University

Wednesday, October 27*morning***PLENARY PL2****TECHNICAL ACHIEVEMENT AWARD PRESENTATION**

Ramesh Jain, University of California at Irvine, USA
Life = Experiences(Events) + Vision
Session Chair:
Rainer Lienhart, University of Augsburg, D

BEST PAPER SESSION

A Coherent Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics

Subhabrata Bhattacharya

Rahul Sukthankar

Mubarak Shah

Music Recommendation by Unified Hypergraph: Combining Social Information and Music Content

Jiajun Bu, Zhejiang University

Shulong Tan, Zhejiang University

Chun Chen, Zhejiang University

Can Wang, Zhejiang University

Hao Wu, Zhejiang University

Lijun Zhang, Zhejiang University

Xiaofei He, Zhejiang University

Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment

Richang Hong, School of Computing, National University of Singapore

Meng Wang, School of Computing, National University of Singapore

Mengdi Xu, Dept. of ECE, National University of Singapore

Shuicheng Yan, Dept. of ECE, National University of Singapore

Tat-Seng Chua, School of Computing, National University of Singapore

A Cognitive Approach for Effective Coding and Transmission of 3D Video

Simone Milani, University of Padova

Giancarlo Calvagno, University of Padova

Session Chair:

Klara Nahrstedt, University of Illinois, USA

ORAL SESSION**FULL F7**

Applications / Content

Multimodal image and video search

Chair:

Bernard Merialdo, EURECOM, F

iLike: Integrating Visual and Textual Features for Vertical Search

Yuxin Chen, University of Kansas

Nenghai Yu, University of Science and Technology of China

Bo Luo, University of Kansas

Xue-wen Chen, University of Kansas

Feature Map Hashing: Sub-linear Indexing of Appearance and Global Geometry

Yannis Avrithis, National Technical University of Athens

Giorgos Toliass, National Technical University of Athens

Yannis Kalantidis, National Technical University of Athens

TalkMiner: A Lecture Webcast Search Engine

John Adcock, FX Palo Alto Laboratory
 Matthew Cooper, FX Palo Alto Laboratory
 Laurent Denoue, FX Palo Alto Laboratory
 Hamed Pirsiavash, University of California, Irvine
 Lawrence Rowe, FX Palo Alto Laboratory

A New Approach to Cross-Modal Multimedia Retrieval
 Nikhil Rasiwasia, University of California, San Diego
 Jose Costa Pereira, University of California, San Diego
 Emanuele Coviello, University of California, San Diego
 Gabriel Doyle, University of California, San Diego
 Gert Lanckriet, University of California, San Diego
 Roger Levy, University of California, San Diego
 Nuno Vasconcelos, University of California, San Diego

ORAL SESSION**FULL F8**

Applications

Assisted authoring of media content

Chair:

Mohan Kankanhalli, National University of Singapore, SG

Color Matching of Image Sequences with Combined Gamma and Linear Correction

Yingen Xiong, Nokia Research Center

Kari Pulli, Nokia Research Center

A Framework for Photo-Quality Assessment and Enhancement based on Visual Aesthetics

Subhabrata Bhattacharya, University Of Central Florida

Rahul Sukthankar, Intel Labs And Carnegie Mellon University

Mubarak Shah, University Of Central Florida

Automated Aesthetic Enhancement of Videos

Yangyang Xiang, National University of Singapore

Mohan Kankanhalli, National University of Singapore

Learning to Photograph

Bin Cheng, NUS

Bingbing Ni, NUS

Shuicheng Yan, NUS

Qi Tian, UTSA

ORAL SESSION**FULL F9**

Human-centered multimedia / Systems

Enriched and extended media presentation

Chair:

Dulce Ponceleon, IBM Almaden Research Center

Ink Jet Olfactory Display Enabling Instantaneous Switches of Scents

Sayumi Sugimoto, Graduate School of Science and Technology Keio University

Daisuke Noguchi, Graduate School of Science and Technology Keio University

Yuichi Bannai, CANON Inc.

Kenichi Okada, Graduate School of Science and Technology Keio University

e-Fovea: A Multi-Resolution Approach with Steerable Focus to Large-Scale and High-Resolution Monitoring

Kuan-Wen Chen, National Taiwan University

Chih-Wei Lin, National Taiwan University

Mike Chen, National Taiwan University

Yi-Ping Hung, National Taiwan University

Impact of Zooming and Enhancing Region of Interests for Optimizing User Experience on Mobile Sports Video

Wei Song, Faculty of Science and Technology

Dian Tjondronegoro, Faculty of Science and Technology

Shu-Hsien Wang, Faculty of Science and Technology

Michael Docherty, Faculty of Science and Technology

Webcams in Context: Web Interfaces to Create Live 3D Environments

Austin Abrams, Washington University in St. Louis

Robert Pless, Washington University in St. Louis

ACM SIGMM BUSINESS MEETING

State of the SIGMM

SIGMM Activities/Events between October 2009-September 2010

Presentations prepared by:

Klara Nahrstedt

Mohan Kankanhalli

Rainer Lienhart

Ralf Steinmetz

Carsten Griwotz

Balakrishnan

Thomas Plageman

Wei Tsang Ooi

Mohamed Hefeeda

Baochun Li

*Remember Nicolas Georganas**New Editor-in-Chief, Professor Ralf Steinmetz at TOMCCAP, 2010**SIGMM Awards*

winner of 2010 SIGMM technical achievement award, and future submissions for 2011

winner of 2010 SIGMM PhD thesis award, and future submissions for 2011

Status report on various SIGMM sponsored conferences and in-cooperation

Budget – what we do with SIGMM funds

Future Efforts

New initiatives at SIGMM sponsored events to further energize the SIGMM and overall multimedia community

(some proposals are in, and also looking for new proposals)

New conference efforts

- ACM Multimedia 2012 – 20 years of ACM Multimedia celebration
- New Bidding efforts for future ACM SIGMM Multimedia conferences
- New Reporting guidelines for future SIGMM-sponsored conferences

*Status/new efforts in SIGMM education**Status/new efforts in SIGMM preservations of our conference websites**(ACM Multimedia 1993 – 2010, NOSSDAV, ...)**Status/new efforts in SIGMM support for industry-academia collaboration**Status/new efforts in SIGMM Web-Portal (sigmm.org)*

Status/new efforts in TOMCCAP

Status/new efforts in SIGMM records (e-newsletter for SIGMM Community)

Status/new efforts in Springer Multimedia Systems Journal

Bids presentation for 2012 and 2013

Chaired by Mohan Kankanhalli

POSTER SESSION

SHORT S4

Applications / Content

Chair:

Lexing Xie, IBM Corp., USA

Restoration of Out-of-focus Lecture Video by Automatic Slide Matching

Ngai-Man Cheung, Stanford University

David Chen, Stanford University

Vijay Chandrasekhar, Stanford University

Sam Tsai, Stanford University

Gabriel Takacs, Stanford University

Sherif Halawa, Stanford University

Bernd Girod, Stanford University

Increasing Interactivity in Street View Web Navigation Systems

Alexandre Devaux, Université Paris-Est, IGN, MATIS

Nicolas Paparoditis, Université Paris-Est, IGN, MATIS

Improving Face Clustering Using Social Context

Peng Wu, Hewlett-Packard Company

Feng Tang, Hewlett-Packard Company

Region Categorization with Mobile Applications

Jiang Gao, Nokia Corporation

Topic Discovery of Web Video Using Star-structured K-partite Graph

Jian Shao, Zhejiang University

Wentao Yin, Zhejiang University

Shuai Ma, Zhejiang University

Yueting Zhuang, Zhejiang University

Video Retargeting for Aesthetic Enhancement

Yang-Yang Xiang, National University of Singapore

Mohan Kankanhalli, National University of Singapore

FireVolleyball: Multi-player Interactive Game Providing a Sense of Touching Fire

Sei Ikeda, Nara Institute of Science and Technology

Yuki Uranishi, Nara Institute of Science and Technology

Yoshitsugu Manabe, Nara Institute of Science and Technology

Kunihiro Chihara, Nara Institute of Science and Technology

Memory Matrix: A Novel User Experience for Home Video

Qianqian Xu, Graduate University of Chinese Academy of Sciences

Zhipeng Wu, Graduate University of Chinese Academy of Sciences

Guorong Li, Graduate University of Chinese Academy of Sciences

Lei Qin, Institute of Computing Technology, Chinese Academy of Sciences

Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences

Qingming Huang, Graduate University of Chinese Academy of Sciences

Artistic Paper-Cut of Human Portraits

Meng Meng, Lotus Hill Institute & Beijing Institute of Technology

Mingtian Zhao, Lotus Hill Institute & University of California, Los Angeles

Song-Chun Zhu, Lotus Hill Institute & University of California, Los Angeles

Robust Hashing for Music Copyright Protection by Combining Beat Segmentation and Chroma

Wei Li, Fudan University

Zhurong Wang, Fudan University

Bilei Zhu, Fudan University

Xiangyang Xue, Fudan University

Explicit and Implicit Concept-based Video Retrieval with Bipartite Graph Propagation Model

Lei Bao, Laboratory for Advanced Computing Technology Research, ICT, CAS

Juan Cao, Laboratory for Advanced Computing Technology Research, ICT, CAS

Yongdong Zhang, Laboratory for Advanced Computing Technology Research, ICT, CAS

Jintao Li, Laboratory for Advanced Computing Technology Research, ICT, CAS

Ming-yu Chen, School of Computer Science, Carnegie Mellon University

Alexander Hauptmann, School of Computer Science, Carnegie Mellon University

Lightweight TV Logo Recognition based on Image Moment

Masaru Sugano, KDDI R&D Laboratories, Inc.

Shigeyuki Sakazawa, KDDI R&D Laboratories, Inc.

Representative Views Re-Ranking for 3D Model Retrieval with Multi-Bipartite Graph Reinforcement Model

Yue Gao, Tsinghua University

You Yang, Tsinghua University

Qionghai Dai, Tsinghua University

Naiyao Zhang, Tsinghua University

Sorted Label Classifier Chains for Learning Images with Multi-label

Xi Liu, Institute of Computing Technology, Chinese Academy of Sciences

Zhiping Shi, Institute of Computing Technology, Chinese Academy of Sciences

Zhixin Li, Institute of Computing Technology, Chinese Academy of Sciences

Xishun Wang, Institute of Computing Technology, Chinese Academy of Sciences

Zhongzhi Shi, Institute of Computing Technology, Chinese Academy of Sciences

3D Object Retrieval with Bag-of-Region-Words

Yue Gao, Tsinghua University

You Yang, Tsinghua University

Qionghai Dai, Tsinghua University

Naiyao Zhang, Tsinghua University

3D Object Search Through Semantic Component

Chunjing Xu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

Zhengwu Zhang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China

Jianzhuang Liu, The Chinese University of Hong Kong, China

Xiaou Tang, The Chinese University of Hong Kong, China

Keep Moving! Revisiting Thumbnails for Mobile Video Retrieval

Wolfgang Hürst, Utrecht University

Cees Snoek, University of Amsterdam

Willem-Jan Spoel, Utrecht University

Mate Tomin, Utrecht University

Semantic Video Indexing by Fusing Explicit and Implicit Context Spaces

Yingbin Zheng, Fudan University

Renzhong Wei, Fudan University

Hong Lu, Fudan University

Xiangyang Xue, Fudan University

Effective Logo Retrieval with Adaptive Local Feature Selection

Jianlong Fu, Institute of Automation, Chinese Academy of Sciences
Jinqiao Wang, Institute of Automation, Chinese Academy of Sciences
Hanqing Lu, Institute of Automation, Chinese Academy of Sciences

Mining Common Object from Images: a Bottom-Up Approach

Gangqiang Zhao, Nanyang Technological University
Junsong Yuan, Nanyang Technological University

Saliency Detection Based on 2D Log-Gabor Wavelets and Center Bias

Min Wang, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Jia Li, Key Lab of Intell. Info. Process. Inst. of Comput. Tech., Chinese Academy of Sciences, China
Tiejun Huang, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Yonghong Tian, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Lingyu Duan, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University
Guochen Jia, National Engineering Laboratory for Video Technology (NELVT), School of EE & CS, Peking University

Heterogeneous Feature Selection by Group Lasso with Logistic Regression

Fei Wu, Zhejiang University
Ying Yuan, Zhejiang University
Yueting Zhuang, Zhejiang University

A Novel Audio Fingerprinting Method Robust to Time Scale Modification and Pitch Shifting

Bilei Zhu, Fudan University
Wei Li, Fudan University
Zhurong Wang, Fudan University
Xiangyang Xue, Fudan University

Image Classification Using The Web Graph

Dhruv Mahajan, Yahoo
Malcolm Slaney, Yahoo

DEMO SESSION

DEMO D4

Chair:
Winston Hsu, National Taiwan University, TW

Rerum Novarum: Interactive Exploration of Illuminated Manuscripts

Daniele Borghesani, University of Modena e Reggio Emilia
Costantino Grana, University of Modena e Reggio Emilia
Rita Cucchiara, University of Modena e Reggio Emilia

Sirio, Orione and Pan: an Integrated Web System for Ontology-based Video Search and Annotation

Marco Bertini, University of Firenze
Gianpaolo D'Amico, University of Firenze
Andrea Ferracani, University of Firenze
Marco Meoni, University of Firenze
Giuseppe Serra, University of Firenze

Web-based Semantic Browsing of Video Collections using Multimedia Ontologies

Marco Bertini, University of Firenze
Gianpaolo D'Amico, University of Firenze
Andrea Ferracani, University of Firenze
Marco Meoni, University of Firenze
Giuseppe Serra, University of Firenze

MediaTable: a tool for categorizing multimedia collections

Ork Rooij, University of Amsterdam
Marcel Worring, University of Amsterdam

Interactive Person-Retrieval in TV Series and Distributed Surveillance Video

Martin Bäuml, Karlsruhe Institute of Technology
Mika Fischer, Karlsruhe Institute of Technology
Keni Bernardin, Karlsruhe Institute of Technology
Hazim Ekenel, Karlsruhe Institute of Technology
Rainer Stiefelwagen, Karlsruhe Institute of Technology

Trajectory-based Visualization of Web Video Topics

Juan Cao, Institute of Computing Technology, Chinese Academy of Science
Chong-Wah Ngo, Computer Science Department, City University of Hong Kong
YongDong Zhang, Institute of Computing Technology, Chinese Academy of Science
DongMing Zhang, Institute of Computing Technology, Chinese Academy of Science
Liang Ma, Institute of Computing Technology, Chinese Academy of Science

Adding Haptic Feature to YouTube

Md. Abdur Rahman, University of Ottawa
Abdulmajeed Alkhalidi, University of Ottawa
Jongeun Cha, University of Ottawa
Abdulmotaleb El Saddik, University of Ottawa

Assisted news reading with automated illustration

Diogo Delgado, Universidade Nova de Lisboa
Joao Magalhaes, Universidade Nova de Lisboa
Nuno Correia, Universidade Nova de Lisboa

MediaPick: Tangible Semantic Media Retrieval System

Gianpaolo D'Amico, University of Firenze, Italy
Andrea Ferracani, University of Firenze, Italy
Lea Landucci, University of Firenze, Italy
Matteo Mancini, University of Firenze, Italy
Daniele Pezzatini, University of Firenze, Italy
Nicola Torpei, University of Firenze, Italy

Effects of Environmental Colour on Mood: A Wearable LifeColour Capture Device

Aiden Doherty, Dublin City University
Philip Kelly, Dublin City University
Brendan O'Flynn, Tyndall Research Institute
Padraig Curran, Tyndall Research Institute
Alan Smeaton, Dublin City University
Cian O'Mathuna, Tyndall Research Institute
Noel O'Connor, Dublin City University

afternoon

PLENARY PL3

MULTIMEDIA GRAND CHALLENGE

Session Chair:
Cees Snoek, University of Amsterdam, NL; Malcom Slaney, Yahoo Corp., USA
Master of Ceremonies:
Ayman Shamma, Yahoo Corp., USA

*Searching and Browsing Social Images through iAVATAR*Aixin Sun
Sourav Bhowmick*Human Body Tracking of Tennis Players using Hierarchical Particle Filtering and Variable Windows*Adolfo López-Méndez
Marcel Alcoverro
Montse Pardas
Josep R. Casas*Gaze Awareness and Interaction Support in Presentations: Video**Conference Experience Grand Challenge Statement*
Kar-Han Tan
Dan Gelb
Ramin Samadani
Ian N Robinson
Bruce Culbertson
John Apostolopoulos*Introducing topic segmentation and segmented-based browsing tools into a content based video retrieval system*Julien Law-To
Gregory Grefenstette
Jean-Luc Gauvain
Guillaume Gravier
Lori Lamel
Julien Despres*Google Challenge 2010: Efficient Genre-specific Semantic Video Indexing*Jun Wu
Marcel Worring*Social Game Epitome versus Automatic Visual Analysis*Peter Vajda
Ivan Ivanov
Lutz Goldmann
Touradj Ebrahimi*A low-cost performance analysis and coaching system for tennis*Philip T. Kelly
Petros Daras
Noel. E. O'Connor
Juan Diego Pérez-Moneo Agapito*Rendering Panorama in Mobile Video Conferencing*Shu Shi
Zhengyou Zhang*Multi-Scale Entropy analysis of Dominance in Social Creative Activities*Donald Glowinski
Paolo Coletta*Using Android and Indoor Localization for Diaries*Eladio Martin
Oriol Vinyals
Gerald Friedland
Ruzena Bajcsy*ViRaL: Visual Image Retrieval and Localization*Yannis Avrithis
Yannis Kalantidis
Giorgos Tolias*Audience Dependent Photo Collection Summarization*Pere Obrador
Rodrigo de Oliveira
Nuria Oliver*Learning-to-Photograph towards HP Challenge*Bin Cheng
Bingbing Ni
Shuicheng Yan
Qi Tian*Understanding Affect in Images*Jana Machajdik
Allan Hanbury
Julian Stöttinger*Towards Yahoo! Challenge: A Generic Event Detection and Segmentation**System for Video Navigation and Search*
Tianzhu Zhang
Changsheng Xu
Guangyu Zhu
Si Liu, Hanqing Lu*Video Classification based on Contextual Visual Vocabulary*Shiliang Zhang
Qi Tian
Gang Hua
Qingming Huang
Shuqiang Jiang
Wen Gao*Improving Personal Diaries Using Social Audio Features*Michael Kuhn
Roger Wattenhofer
Samuel Welten*ROI-based Content Adaptation for Mobile Device Usage of Video Conferencing*Wei Song
Dian Tjondronegoro
Ivan Himawan**DISCUSSION ROOM DR1**Chairs:
Ramesh Jain, University of California at Irvine, USA
Forouzan Golshani, California State University at Long Beach, USA*Free discussions from Tweets***PANEL PA2***All Things Mobile: The Present and Future of Mobile Phone Computing Proposers*Chair:
Daniel Gatica-Perez, Idiap Research Institute, Switzerland

Panelists:

Juha Laurila, Nokia Research Center, Lausanne
 Berna Erol, Ricoh
 Shipeng Li, Microsoft Research Asia
 Ramesh Jain, University of California, Irvine

ORAL SESSION**FULL F10**

Human-centered multimedia
Improved interactivity

Chair:

Jie Yang, Carnegie Mellon University, USA

Toward More Efficient User Interfaces for Mobile Video Browsing: An In-Depth Exploration of the Design Space

Jochen Huber, Technische Universität Darmstadt
 Jürgen Steimle, Technische Universität Darmstadt
 Max Mühlhäuser, Technische Universität Darmstadt

Error-Resilient Perceptual Coding for Networked Haptic Interaction

Fernanda Brandi, Technische Universität M?nchen
 Julius Kammerl, Technische Universität M?nchen
 Eckehard Steinbach, Technische Universität München

FACT: Fine-grained Cross-media Interaction with Documents via a Portable Hybrid Paper-Laptop Interface

Chunyuan Liao, FX Palo Alto Laboratory
 Hao Tang, University of Illinois at Urbana-Champaign
 Qiong Liu, FX Palo Alto Laboratory
 Patrick Chiu, FX Palo Alto Laboratory
 Francine Chen, FX Palo Alto Laboratory

An Immersive System for Browsing and Visualizing Surveillance Video

Philip DeCamp, MIT Media Lab
 George Shaw, MIT Media Lab
 Rony Kubat, MIT Media Lab
 Deb Roy, MIT Media Lab

ORAL SESSION**INTERACTIVE ART IA2**

Art and multimedia

Chair:

Tiziana Catarci University Roma La Sapienza, I

Bateau Ivre: An Artistic Markerless Outdoor Mobile Augmented Reality Installation on a Riverboat

Christian Jacquemin, LIMSI-CNRS & University Paris 11
 Wai Kit Chan, LIMSI-CNRS
 Mathieu Courgeon, LIMSI-CNRS & University Paris 11

Sonify Your Face: Facial Expressions for Sound Generation

Roberto Valenti, University of Amsterdam
 Alejandro Jaimes, Yahoo! Research
 Nicu Sebe, University of Trento

Flow

Fiona Bowie, Fiona Bowie Studio, Emily Carr University
 Sidney Fels, University of British Columbia
 Morgan Hibbert, University of British Columbia

Ozone: Continuous State-based Media Choreography System for Live Performance

Xin Wei Sha, Concordia University
 Michael Fortin, Concordia University
 Navid Navab, Concordia University
 Timothy Sutton, Concordia University

POSTER SESSION**SHORT S5**

Content / Human-centered multimedia

Chair:

Marc Cavazza, University of Teesside, UK

Interactive Learning of Heterogeneous Visual Concepts with Local Features

Wajih Ouertani, INRIA – IMEDIA Project and INRA
 Michel Crucianu, INRIA – IMEDIA Project and CEDRIC – CNAM
 Nozha Boujemaa, INRIA – IMEDIA Project

Index Support for Content-Based Multimedia Exploration

Christian Beecks, RWTH Aachen University
 Philip Driessen, RWTH Aachen University
 Thomas Seidl, RWTH Aachen University

Hybrid Active Learning for Cross-Domain Video Concept Detection

Huan Li, Beihang University
 Yuan Shi, Carnegie Mellon University
 Ming-yu Chen, Carnegie Mellon University
 Alexander Hauptmann, Carnegie Mellon University
 Zhang Xiong, Beihang University

Hierarchical Image Feature Extraction And Classification

Min-Hsuan Tsai, University of Illinois at Urbana-Champaign
 Shen-Fu Tsai, University of Illinois at Urbana-Champaign
 Thomas Huang, University of Illinois at Urbana-Champaign

Revealing Real Quality of Double Compressed MP3 Audio

Mengyu Qiao, New Mexico Tech
 Andrew Sung, New Mexico Tech
 Qingzhong Liu, Sam Houston State University

Prediction of Favourite Photos using Social, Visual, and Textual Signals

Roelof van Zwol, Yahoo! Research
 Adam Rae, Open University
 Lluís Garcia Pueyo, Yahoo! Research

One Person Labels One Million Images

Jinhui Tang, National University of Singapore
 Qiang Chen, National University of Singapore
 Shuicheng Yan, National University of Singapore
 Tat-Seng Chua, National University of Singapore
 Ramesh Jain, University of California, Irvine

A Novel Virtual World based HCI Paradigm for Multimedia Scholarly Communication

Arturo Nakasone, National Institute of Informatics
 Tiago da Silva, National Institute of Informatics
 Andreas Budde, National Institute of Informatics
 Kugamoorthy Gajananan, National Institute of Informatics
 Tri Truong, National Institute of Informatics
 Helmut Prendinger, National Institute of Informatics

Kodak Moments and Flickr Diamonds
 Radu Negoescu, Idiap Research Institute
 Alexander Loui, Kodak Research Labs
 Daniel Gatica-Perez, Idiap Research Institute

Inter-ACT: An Affective and Contextually Rich Multimodal Video Corpus for Studying Interaction with Robots
 Genevra Castellano, Queen Mary University of London
 Iolanda Leite, Instituto Superior Tecnico
 Andre Pereira, Instituto Superior Tecnico
 Carlos Martinho, Instituto Superior Tecnico
 Ana Paiva, Instituto Superior Tecnico
 Peter McOwan, Queen Mary University of London

Multi-Scale Entropy analysis of Dominance in Social Creative Activities
 Donald Glowinski, University of Genoa
 Paolo Coletta, University of Genoa
 Carlo Chiorri, University of Genoa
 Gualtiero Volpe, University of Genoa
 Antonio Camurri, University of Genoa
 Andrea Schenone, University of Genoa

Evaluation of Digital Games using QOL Measurements
 Yukari Hori, University of Tokyo
 Akira Baba, University of Tokyo

MuVis: An Application for Interactive Exploration of Large Music Collections
 Ricardo Dias, INESC-ID/IST/Technical University of Lisbon
 Manuel Fonseca, INESC-ID/IST/Technical University of Lisbon

From Photo Networks to Social Networks, Creation and Use of a Social Network Derived with Photos
 Michel Plantié, Ecole des Mines d'Ales
 Michel Crampes, Ecole des Mines d'Ales

Enriching Audio-Visual Chat with Conversation-Based Image Retrieval and Display
 Jeroen Vanattenhoven, Centre for User Experience Research – IBBT / Katholieke Universiteit Leuven
 Christof van Nimwegen, Centre for User Experience Research – IBBT / Katholieke Universiteit Leuven
 Matthias Strobbe, Ghent University – IBBT, Department of Information Technology
 Olivier Van Laere, Ghent University – IBBT, Department of Information Technology
 Bart Dhoedt, Ghent University – IBBT, Department of Information Technology

A Shape-Free, Designable 6-DoF Marker Tracking Method for Camera-Based Interaction in Mobile Environment
 Hiroki NISHINO, National University of Singapore

iWalk, A Tool for Interacting with Geo-Located Data Through Movement and Gesture
 Visruth Premraj, Stony Brook University
 Margaret Schedel, Stony Brook University
 Tamara Berg, Stony Brook University

The Colour of Life: Novel Visualisations of Population Lifestyles
 Philip Kelly, Dublin City University
 Aiden Doherty, Dublin City University
 Alan Smeaton, Dublin City University
 Cathal Gurrin, Dublin City University
 Noel O'Connor, Dublin City University

AudioFeeds – A Mobile Auditory Application for Monitoring Online Activities
 Tilman Dingler, University of Munich
 Stephen Brewster, University of Glasgow

User Driven Audio Content Navigation for Spoken Web
 Ketki Dhanesha, IBM Research
 Nitendra Rajput, IBM Research
 Kundan Srivastava, IBM Research

Structuring Ordered Nominal Data for Event Sequence Discovery
 Chreston Miller, Virginia Tech
 Francis Quek, Virginia Tech
 Naren Ramakrishnan, Virginia Tech

Automated Sleep Quality Measurement using EEG Signal
 Wei Zhao, National University of Singapore
 Xinxi Wang, National University of Singapore
 Ye Wang, National University of Singapore

Deducing User's Fatigue from Haptic Data
 Abdelwahab Hamam, University of Ottawa
 Fawaz Alsulaiman, University of Ottawa
 Abdulmotaleb El Saddik, University of Ottawa
 Nicolas Georganas, University of Ottawa

Context-based Indoor Object Detection as an Aid to Blind Persons Accessing Unfamiliar Environments
 Xiaodong Yang, The City College of New York
 YingLi Tian, The City College of New York
 Chucai Yi, The City University of New York
 Aries Arditi, Lighthouse International

DEMO SESSION

DEMO D5

Session Chair:
 Paul Natsev, IBM Corp., USA

Mobile Video Browsing and Retrieval with the OVIDIUS Platform
 Andrei Bursuc, Institut TELECOM; TELECOM SudParis
 Titus Zaharia, Institut TELECOM; TELECOM SudParis
 Francoise Preteux, Mines ParisTech

Serious Games for Health – Personalized Exergames
 Stefan Göbel, TU Darmstadt
 Sandro Hardy, TU Darmstadt
 Viktor Wendel, TU Darmstadt
 Florian Mehm, TU Darmstadt
 Ralf Steinmetz, TU Darmstadt

A GPU-Accelerated Face Annotation System for Smartphones
 Yi-Chu Wang, University of California, Santa Barbara
 Sydney Pang, University of California, Santa Barbara
 Kwang-Ting Cheng, University of California, Santa Barbara

Crew: Cross-modal Resource Searching by Exploiting Wikipedia
 Chen Liu, NUS
 Beng Chin Ooi, NUS
 Anthony K. H. Tung, NUS
 Dongxiang Zhang, NUS

Construction of Image Retrieval Systems Focused on User Knowledge Interaction

Tomoko Kajiyama, Aoyama Gakuin University
Shin'ichi Satoh, National Institute of Informatics

Visualization of Concurrent Tones in Music with Colours

Peter Ciuha, ALUO, University of Ljubljana
Bojan Klemenc, FRI, University of Ljubljana
Franc Solina, FRI, University of Ljubljana

Changing Characters' Point of View in Interactive Storytelling

Fred Charles, Teesside University
Julie Porteous, Teesside University
Marc Cavazza, Teesside University

Speeding Up Mobile Multimedia Applications

Jiang Gao, Nokia Corporation

A Multimedia Approach to Visualize and Interact with Large Scale Mobile LiDAR Data

James Lynch, NAVTEQ
Xin Chen, NAVTEQ
Roger Hui, NAVTEQ

Automatic Skin Enhancement with Visible and Near-Infrared Image Fusion

Sabine Susstrunk, Ecole Polytechnique Fédérale de Lausanne (EPFL)
Clément Fredembach, Ecole Polytechnique Fédérale de Lausanne (EPFL)
Daniel Tamburrino, Ecole Polytechnique Fédérale de Lausanne (EPFL)

Thursday, October 28

morning

PLENARY PL4*Visual Crowd Surveillance is Like Hydrodynamics*

Mubarak Shah

Chair:

Alberto Del Bimbo, University of Firenze, I

SIGMM PHD AWARD PRESENTATION*Geometry-Aware Analysis of High-Dimensional Visual Information Sets*

Effrosyni Kokiopoulou, Ecole Polytechnique Federale de Lausanne, CH

Session Chair:

Svetha Venkatesh, Curtin University of Technology, AUS

PANEL PA3*DISPUTATIO on the use of Ontologies for Semantic*

Panel Chairs:

Ed Chang, Google Corp., China

Tat-Seng Chua, National University of Singapore, SG

ORAL SESSION**FULL F11**

Applications / Content

Novel aids for music retrieval

Session Chair:

Gerald Friedland, University of California, Berkeley, USA

Combining Multi-Probe Histogram and Order-Statistics Based LSH for Scalable Audio Content Retrieval

Yi Yu, New Jersey Institute of Technology

Michel Crucianu, CEDRIC - CNAM

Vincent Oria, New Jersey Institute of Technology

Ernesto Damiani, University of Milano

Music Recommendation by Unified Hypergraph: Combining Social Media Information and Music Content

Jiajun Bu, Zhejiang University

Shulong Tan, Zhejiang University

Chun Chen, Zhejiang University

Can Wang, Zhejiang University

Hao Wu, Zhejiang University

Lijun Zhang, Zhejiang University

Xiaofei He, Zhejiang University

Large-scale Music Tag Recommendation with Explicit Multiple Attributes

Zhendong Zhao, National University of Singapore

Xinxi Wang, National University of Singapore

Qiaoliang Xiang, National University of Singapore

Andy Sarroff, National University of Singapore

Zhonghua Li, National University of Singapore

Ye Wang, National University of Singapore

Social Audio Features for Advanced Music Retrieval Interfaces

Michael Kuhn, ETH Zurich

Roger Wattenhofer, ETH Zurich

Samuel Welten, ETH Zurich

FULL F12

Systems

3D video

Session Chair:

Wolfgang Effelsberg, University of Mannheim, D

A Cognitive Approach for Effective Coding and Transmission of 3D Video

Simone Milani, University of Padova

Giancarlo Calvagno, University of Padova

Modeling 3D Facial Expressions Using Geometry Videos

Jiazhi Xia, Nanyang Technological University

Ying He, Nanyang Technological University

Dao Quynh, Nanyang Technological University

Xiaoming Chen, Nanyang Technological University

Steven Hoi, Nanyang Technological University

A High-Quality Low-Delay Remote Rendering System for 3D Video

Shu Shi, University of Illinois at Urbana-Champaign

Mahsa Kamali, University of Illinois at Urbana-Champaign

Klara Nahrstedt, University of Illinois at Urbana-Champaign

John Hart, University of Illinois at Urbana-Champaign

Roy Campbell, University of Illinois at Urbana-Champaign

ORAL SESSION**FULL F13**

Applications / Human-centered multimedia

Narrowing the experience gap

Session Chair:

Abed El Saddik, University of Ottawa, CA

Dynamic Captioning: Video Accessibility Enhancement for Hearing Impairment

Richang Hong, School of Computing, National University of Singapore
 Meng Wang, School of Computing, National University of Singapore
 Mengdi Xu, Dept. of ECE, National University of Singapore
 Shuicheng Yan, Dept. of ECE, National University of Singapore
 Tat-Seng Chua, School of Computing, National University of Singapore

The Third Eye: Mining the Visual Cognition across Multi-language Communities

Chunxi Liu, Graduate University of Chinese Academy of Sciences
 Qingming Huang, Graduate University of Chinese Academy of Sciences
 Shuqiang Jiang, Institution of Computing Technology, Chinese Academy of Sciences
 Changsheng Xu, Institute of Automation, Chinese Academy of Sciences

Green Multimedia: Informing People of their Carbon Footprint through Two Simple Sensors

Aiden Doherty, Dublin City University
 Zhengwei Ziu, Dublin City University
 Colum Foley, Dublin City University
 Hyowon Lee, Dublin City University
 Cathal Gurrin, Dublin City University
 Alan Smeaton, Dublin City University

Bridging Low-level Features and High-level Semantics via fMRI Brain Imaging for Video Classification

Xintao Hu, Northwestern Polytechnical University
 Fan Deng, the University of Georgia
 Kaiming Li, Northwestern Polytechnical University
 Tuo Zhang, Northwestern Polytechnical University
 Hanbo Chen, Northwestern Polytechnical University
 Xi Jiang, Northwestern Polytechnical University
 Jinglei Lv, Northwestern Polytechnical University
 Dajiang Zhu, the University of Georgia
 Carlos Faraco, the University of Georgia
 Degang Zhang, Northwestern Polytechnical University
 Arsham Mesbah, the University of Georgia
 Junwei Han, Northwestern Polytechnical University
 Xiansheng Hua, Microsoft Research Asia
 Li Xie, Zhejiang University
 Stephen Miller, the University of Georgia
 Lei Guo, Northwestern Polytechnical University
 Tianming Liu, the University of Georgia

EXHIBIT SESSION**INDUSTRIAL EXHIBIT IE1**

Exhibit

Session Chairs:

Berna Erol, RICOH Corp., USA
 Qi Tian, University of Texas at San Antonio, USA
 Yiannis (Ioannis) Kompatsiaris, Centre for Research and Technology Hellas, GR

Virtual Environment for Surprises

Lara Olivetti, Melazeta Srl
 Marcella Albiero, Melazeta Srl
 Paolo Giordano, Melazeta Srl

RAPID: A Reliable Protocol for Improving Delay

Sanjeev Mehrotra, Microsoft Research
 Jin Li, Microsoft Research
 Cheng Huang, Microsoft Research

A Location Based Reminder System for Advertisement

Yiqun Li, Institute for Infocomm Research
 Aiyuan Guo, Institute for Infocomm Research
 Siying Liu, Institute for Infocomm Research
 Yan Gao, Institute for Infocomm Research
 Yan-Tao Zheng, Institute for Infocomm Research

Embedded Media Marker: Linking Multimedia to Paper

Qiong Liu, FX Palo Alto Laboratory
 Chunyuan Liao, FX Palo Alto Laboratory
 Lynn Wilcox, FX Palo Alto Laboratory
 Anthony Dunnigan, FX Palo Alto Laboratory
 Bee Liew, FX Palo Alto Laboratory

The Virtual Chocolate Factory: Mixed Reality Industrial Collaboration and Control

Maribeth Back, FX Palo Alto Laboratory
 Don Kimber, FX Palo Alto Laboratory
 Eleanor Rieffel, FX Palo Alto Laboratory
 Anthony Dunnigan, FX Palo Alto Laboratory
 Bee Liew, FX Palo Alto Laboratory
 Sagar Gattepally, FX Palo Alto Laboratory
 Jonathan Foote, FX Palo Alto Laboratory
 Jun Shingu, FX Palo Alto Laboratory
 James Vaughan, FX Palo Alto Laboratory

TalkMiner: A Search Engine for Online Lecture Video

John Adcock, FX Palo Alto Laboratory
 Matthew Cooper, FX Palo Alto Laboratory
 Laurent Denoue, FX Palo Alto Laboratory
 Hamed Pirsiavash, University of California, Irvine
 Lawrence Rowe, FX Palo Alto Laboratory

Multi-Sensor Fusion for Interactive Visual Computing in Mixed Environment

Peng Wang, Intel Labs China

Uffizi Touch®

Marco Cappellini, Centrica

Social Recommendation and Visual Analysis on the TV

Cathal Gurrin, Dublin City University
 Hyowon Lee, Dublin City University
 Paul Ferguson, Dublin City University
 Alan Smeaton, Dublin City University
 Noel O'Connor, Dublin City University
 Yoonhee Choi, Samsung Electronics
 Heeseon Park, Media S/W Platform Lab

Multimedia Security Technologies for Movie Protection

Michael Arnold, Technicolor
 Séverine Baudry, Technicolor
 Peter Baum, Technicolor
 Xiao-Ming Chen, Technicolor
 Bertrand Chupeau, Technicolor

Olivier Courtay, Technicolor
 Gwenaël Doërr, Technicolor
 Ulrich Gries, Technicolor
 Frédéric Lefebvre, Technicolor
 Michel Morvan, Technicolor
 Antoine Robert, Technicolor
 Charles Salmon-Legagneur, Technicolor
 Christophe Vincent, Technicolor
 Mario de Vito, Technicolor

Efficient and Robust Near-Duplicate Detection in Large and Growing Image Data-Sets
 Thomas Pönitz, CogVis Ltd.
 Julian Stöttinger, Vienna Technical University

File-Based Media Workflows using LTFS Tapes
 Arnon Amir, IBM Research
 David Pease, IBM Research
 Rainer Richter, IBM Research
 Brian Biskeborn, IBM Research
 Michael Richmond, IBM Research
 Lucas Villa Real, IBM Research

PopApp: the First 3d POPular APPLICATION for Non-linear Presentations
 Claudio Mazzanti, Loop srl

Large Scale Partially Duplicated Web Image Retrieval
 Wengang Zhou, University of Science and Technology of China
 Yijuan Lu, Texas State University at San Marcos
 Houqiang Li, University of Science and Technology of China
 Yibing Song, University of Science and Technology of China
 Qi Tian, University of Texas at San Antonio

Visual search applications for connecting published works to digital material
 Jamey Graham, Ricoh Innovations, Inc.
 Jorge Moraleda, Ricoh Innovations, Inc.
 Jonathan Hull, Ricoh Innovations, Inc.
 Timothee Bailloeul, Ricoh Innovations, Inc.
 Xu Liu, Ricoh Innovations, Inc.
 Andrea Mariotta, Ricoh Innovations, Inc.

SCOTT: Set Cover Tracing Technology
 Dulce Ponceleon, IBM Almaden Research Center
 Jeff Lostpiech, IBM Almaden Research Center
 Hongxia Jin, IBM Almaden Research Center
 Eric Wilcox, IBM Almaden Research Center

Physical Hyperlinks For Citizen Interaction
 Dustin Haisler, City of Manor
 Phil Tate, City of Manor

Mobile Document Scanning and Copying
 Jian Fan, Hewlett-Packard Labs
 Qian Lin, Hewlett-Packard Labs
 Jerry Liu, Hewlett-Packard Labs

Data-driven behavioural algorithms for online advertising
 Antonio Tomarchio, Dada spa
 Francesco Bellacci, Dada spa
 Filippo Privitera, Dada spa

POSTER SESSION SHORT IA3

Chair:
 Sethuraman Panchanathan, Arizona State University, USA

Building with a Memory: Responsive Color Interventions
 Andreea Danielescu, Arizona State University
 Ryan Spicer, Arizona State University
 David Tinapple, Arizona State University
 Aisling Kelliher, Arizona State University
 Ellen Campana, Arizona State University

The Rumentarium Project
 Andrea Valle, University of Torino

Alan01 – Slivers of Color, Media and a Soul
 Mika Tuomola, Aalto University School of Art and Design
 Teemu Korpilahti, Aalto University School of Art and Design
 Jaakko Pesonen, Aalto University School of Art and Design

Encounter (Resonances)
 Hayley Hung, University of Amsterdam
 Christian Jacquemin, LIMSI-CNRS & University of Paris 11

Thrii
 Nicole Lehrer, Arizona State University
 Stjepan Rajko, Arizona State University
 Diana Siwiak, Arizona State University
 David Tinapple, Arizona State University
 Isaac Wallis, Arizona State University
 Tatyana Koziupa, Arizona State University
 Meng Chen, Arizona State University
 Michael Baran, Arizona State University
 Assegid Kidane, Arizona State University
 David Lorig, Arizona State University
 Loren Olson, Arizona State University

HUM, an Interactive and Collaborative Art Installation
 Jean-Julien Filatriau, Université catholique de Louvain
 François Zajéga, Artist

Coming Together – Composition by Negotiation
 Arne Eigenfeldt, Simon Fraser University

RTVISS | Real-Time Video Interactive Systems for Sustainability
 Mónica Mendes, Universidade de Lisboa
 Nuno Correia, Universidade Nova de Lisboa

Chroma Space: Affective Colors in Interactive 3D World
 Wendy Ann Mansilla, Norwegian University of Science and Technology (NTNU)
 Jordi Puig, Norwegian University of Science and Technology (NTNU)
 Andrew Perkis, Norwegian University of Science and Technology (NTNU)
 Touradj Ebrahimi, Norwegian University of Science and Technology (NTNU)

An Interactive Multimedia Framework for Digital Heritage Narratives

Neeharika Adabala, Microsoft Research India
 Naren Datha, Microsoft Research India
 Joseph Joy, Microsoft Research India
 Chinmay Kulkarni, Microsoft Research India
 Ajay Manchepalli, Microsoft Research India
 Aditya Sankar, University of Washington
 Rebecca Walton, University of Washington

Natural Interaction for Cultural Heritage: the Archaeological Site of Shawbak

Thomas Alisi, University of Firenze, Italy
 Gianpaolo D'Amico, University of Firenze, Italy
 Andrea Ferracani, University of Firenze, Italy
 Lea Landucci, University of Firenze, Italy
 Nicola Torpei, University of Firenze, Italy

Yongzheng Emperor's Interactive Tabletop: Seamless Multimedia System in a Museum Context

Chun-Ko Hsieh, Graduate Institute of Networking and Multimedia, National Taiwan University
 I-Ling Liu, Department of Education, Exhibition and Information Services, National Palace Museum
 Neng-Hao Yu, Graduate Institute of Networking and Multimedia, National Taiwan University
 Yueh-Hsuan Chiang, Graduate Institute of Networking and Multimedia, National Taiwan University
 Hsiang-Tao Wu, Graduate Institute of Networking and Multimedia, National Taiwan University
 Ying-Jui Chen, Graduate Institute of Networking and Multimedia, National Taiwan University
 Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University, Taiwan

afternoon

DISCUSSION ROOM DR1

Chairs:
 Ramesh Jain, University of California at Irvine, USA
 Forouzan Golshani, California State University at Long Beach, USA

*Free discussions from Tweets***ORAL SESSION****FULL F14**

Applications / Content
Detection of near-duplicate content
 Session Chair:
 Alan Hanjalic, Delft University, NL

Building Contextual Visual Vocabulary for Large-scale Image Applications

Shiliang Zhang, Key Lab of Intelligent Information Processing, Institute of Computing Technology, Chinese Academy of Sciences
 Qingming Huang, Graduate University of Chinese Academy of Sciences
 Gang Hua, IBM Research T. J. Watson Center
 Shuqiang Jiang, Key Lab of Intelligent Information Processing, Institute of Computing Technology, Chinese Academy of Sciences
 Wen Gao, Institute of Digital Multimedia, Peking University
 Qi Tian, Computer Science Depart., University of Texas at San Antonio

Spatial Coding for Large Scale Partial-Duplicate Web Image Search

Wengang Zhou, University of Science and Technology of China
 Yijuan Lu, Texas State University at San Marcos
 Houqiang Li, University of Science and Technology of China
 Yibing Song, University of Science and Technology of China
 Qi Tian, University of Texas at San Antonio

Monitoring Near Duplicates Over Video Streams

Xiangmin Zhou, CSIRO
 Lei Chen, Hong Kong University of Science and Technology

Real-time Large Scale Near-duplicate Web Video Retrieval

Lifeng Shang, The University of Hong Kong
 Linjun Yang, Microsoft Research Asia
 Fei Wang, Microsoft Search Technology Center
 Kwok-Ping Chan, The University of Hong Kong
 Xian-Sheng Hua, Microsoft Research Asia

ORAL SESSION**FULL F15**

Applications / Human-centered multimedia
Automatic generation of media content
 Session Chair:
 Mohamed M. Hefeeda, Simon Fraser University, CA

Automatic Mashup Generation from Multiple-camera Concert Recordings

Prarthana Shrestha, Eindhoven University of Technology
 Peter de With, Eindhoven University of Technology
 Hans Weda, Philips Research Europe
 Mauro Barbieri, Philips Research Europe
 Emile Aarts, Philips Research Europe

Toward an Automatically Generated Soundtrack from Low-level Cross-modal Correlations for Automotive Scenarios

Marco Cristani, University of Verona
 Anna Pesarin, University of Verona
 Carlo Drioli, University of Verona
 Vittorio Murino, University of Verona
 Antonio Rodà, University of Udine
 Michele Grapulin, University of Verona
 Nicu Sebe, University of Trento

Supporting Personal Photo Storytelling for Social Albums

Pere Obrador, Telefonica Research
 Rodrigo de Oliveira, Telefonica Research
 Nuria Oliver, Telefonica Research

Multimedia Content Creation using Societal-Scale Ubiquitous Camera Networks and Human-Centric Wearable Sensing

Mathew Laibowitz, MIT Media Lab
 Nan-wei Gong, MIT Media Lab
 Joseph Paradiso, MIT Media Lab

OPEN SOURCE SOFTWARE COMPETITION

Session Chairs:
 Nicu Sebe, University of Trento, I
 Marco Bertini, University of Firenze, I

openSMILE – The Munich Versatile and Fast Open-Source Audio Feature Extractor

Florian Eyben, Technische Universitaet Muenchen, Institute for Human-Machine Communication
 Martin Woellmer, Technische Universitaet München, Institute for Human-Machine Communication
 Bjoern Schuller, Technische Universitaet Muenchen, Institute for Human-Machine Communication

Open SVC Decoder: a Flexible SVC Library

Médéric Blestel, IETR/INSA
Mickaël Raulet, IETR/INSA

Sonic Visualiser: An Open Source Application for Viewing, Analysing, and Annotating Music Audio Files

Chris Cannam, Queen Mary University of London
Christian Landone, Queen Mary University of London
Mark Sandler, Queen Mary University of London

VLFeat

Andrea Vedaldi, University of Oxford
Brian Fulkerson, University of California at Los Angeles

TOP-SURF: A Visual Words Toolkit

Bart Thomee, LIACS Media Lab, Leiden University
Erwin Bakker, LIACS Media Lab, Leiden University
Michael Lew, LIACS Media Lab, Leiden University

FALCON: Fast Lucene-based Cover sOng identification

Emanuele Di Buccio, University of Padova
Nicola Montecchio, University of Padova
Nicola Orio, University of Padova

The Python Computer Vision Framework

Bertrand NOUVEL, Japanese French Laboratory for Informatics – LIA CNRS
Shin'ichi SATOH, National Institute of Informatics

Torchvision the machine-vision package of Torch

Sebastien Marcel, Idiap Research Institute
Yann Rodriguez, Idiap Research Institute

The openIP Open Source Image Processing Library

György Kovács, University of Debrecen
Janos Ivan, University of Debrecen
Arpad Panyik, University of Debrecen
Attila Fazekas, University of Debrecen

An Open-Source SIFT Library

Rob Hess, Oregon State University

OPEN WORKSHOP

Interactive MM Computing for Creativity and Expression

Workshop Chair:
Andruid Kerne, Texas A&M University, USA

POSTER SESSION

SHORT S6

Applications / Content

Session Chair:

Wei Tsang Ooi, University of Singapore, SG

Multimedia Cross-Platform Content Distribution for Mobile Peer-to-Peer Networks using Network Coding

Morten Pedersen, Aalborg University
Janus Heide, Aalborg University
Péter Vingelmann, Budapest University of Technology and Economics
Laszlo Blazovics, Budapest University of Technology and Economics
Frank Fitzek, Aalborg University

Topical Summarization of Web Videos by Visual-Text Time-Dependent Alignment

Song Tan, City University of Hong Kong
Hung-Khoon Tan, City University of Hong Kong
Chong-Wah Ngo, City University of Hong Kong

Improved Saliency Detection Based on Superpixel Clustering and Saliency Propagation

Zhixiang Ren, Nanyang Technological University
Yiqun Hu, Nanyang Technological University
Liang-Tien Chia, Nanyang Technological University
Deepu Rajan, Nanyang Technological University

Refining Video Annotation by Exploiting Inter-Shot Context

Jian Yi, Institute of Computer Science and Technology, Peking University, Beijing 100871, China
Yuxin Peng, Institute of Computer Science and Technology, Peking University, Beijing 100871, China
Jianguo Xiao, Institute of Computer Science and Technology, Peking University, Beijing 100871, China

Web Video Categorization based on Wikipedia Categories and Content-Duplicated Open Resources

Zhineng Chen, Institute of Computing Technology, Chinese Academy of Sciences
Juan Cao, Institute of Computing Technology, Chinese Academy of Sciences
Yicheng Song, Institute of Computing Technology, Chinese Academy of Sciences
Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Sciences
Jintao Li, Institute of Computing Technology, Chinese Academy of Sciences

Supporting Children's Social Communication Skills through Interactive Narratives with Virtual Characters

Mary Ellen Foster, Heriot-Watt University
Katerina Avramides, Institute of Education
Sara Bernardini, Institute of Education
Jingying Chen, University of Edinburgh
Christopher Frauenberger, University of Sussex
Oliver Lemon, Heriot-Watt University
Kaska Porayska-Pomsta, London Knowledge Lab

Automatic Image Tagging via Category Label and Web Data

Shenghua Gao, School of Computer Engineering, Nanyang Technological University
Zhengxiang Wang, School of Computer Engineering, Nanyang Technological University
Liang-Tien Chia, School of Computer Engineering, Nanyang Technological University
Ivor Wai-Hung Tsang, School of Computer Engineering, Nanyang Technological University

Auto-tagging of Images in Non-English Languages Using Tag Language Conversion

Keiichi Hoashi, KDDI R&D Laboratories Inc.
Hiromi Ishizaki, KDDI R&D Laboratories Inc.
Hjalmar Wennerstrom, Uppsala University
Yasuhiro Takishima, KDDI R&D Laboratories Inc.

Landmark Image Retrieval Using Visual Synonyms

Elstratios Gavves, University of Amsterdam
Cees Snoek, University of Amsterdam

Approximate Image Color Correlograms

Claudio Taranto, University of Bari "Aldo Moro"
Nicola Di Mauro, University of Bari "Aldo Moro"
Stefano Ferilli, University of Bari "Aldo Moro"
Floriana Esposito, University of Bari "Aldo Moro"

Data-Oriented Locality Sensitive Hashing

Wei Zhang, Institute of Computing Technology, Chinese Academy of Sciences
Ke Gao, Institute of Computing Technology, Chinese Academy of Sciences
Yong-dong Zhang, Institute of Computing Technology, Chinese Academy of Sciences

Jin-tao Li, Institute of Computing Technology, Chinese Academy of Sciences

Automatically Protecting Privacy in Consumer Generated Videos Using Intended Human Object Detector

Yuta Nakashima, Graduate School of Engineering, Osaka University
Noboru Babaguchi, Graduate School of Engineering, Osaka University
Jianping Fan, UNC-Charlotte

Non-parametric Anomaly Detection Exploiting Space-time Features

Lorenzo Seidenari, University of Firenze
Marco Bertini, University of Firenze

A Scalable Cover Identification Engine

Emanuele Di Buccio, University of Padova
Nicola Montecchio, University of Padova
Nicola Orio, University of Padova

Interactive Visual Object Search through Mutual Information Maximization

Jingjing Meng, Motorola, Inc. / Nanyang Technological University
Junsong Yuan, Nanyang Technological University
Yuning Jiang, Nanyang Technological University
Nitya Narasimhan, Motorola, Inc.
Venu Vasudevan, Motorola, Inc.
Ying Wu, Northwestern University

Nearest-Neighbor Classification Using Unlabeled Data for Real World Image Application

Shuhui Wang, Institute of Computing Technology, Chinese Academy of Sciences
Qingming Huang, Graduate University, Chinese Academy of Sciences
Shuqiang Jiang, Institute of Computing Technology, Chinese Academy of Sciences
Qi Tian, University of Texas at San Antonio

Behavior and Properties of Spatio-temporal Local Features under Visual Transformations

Julian Stöttinger, Vienna University of Technology
Bogdan Goras, Technical University of Iasi
Nicu Sebe, University of Trento
Allan Hanbury, Information Retrieval Facility

Boosting-based Multiple Kernel Learning for Image Re-ranking

I-Hong Jhuo, National Taiwan University
D.T. Lee, National Taiwan University

ORAL SESSION

FULL F16

Applications / Content / Human-centered multimedia

Processing of social media

Session Chair:

Jiebo Luo, Kodak Research Lab, USA

Image Tag Refinement Towards Low-Rank, Content-Tag Prior and Error Sparsity

Guangyu Zhu, National University of Singapore
Shuicheng Yan, National University of Singapore
Yi Ma, University of Illinois at Urbana-Champaign

Quantifying Tag Representativeness of Visual Content of Social Images

Aixin Sun, Nanyang Technological University
Sourav Bhowmick, Nanyang Technological University

Social Pixels: Genesis and Evaluation

Vivek Singh, University of California
Mingyan Gao, University of California
Ramesh Jain, University of California

Image Retagging

Dong Liu, Harbin Institute of Technology
Xian-Sheng Hua, Microsoft Research Asia
Meng Wang, Microsoft Research Asia
Hong-Jiang Zhang, Microsoft Advanced Technology Center

BRAVE NEW IDEAS BNI2

Session Chair:

Alejandro Jaimes, Yahoo! Research, E

Human Animal Machine Interaction: Animal Behavior Awareness and Digital Experience

Karin Fahlgvist, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Johannes Karlsson, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Haibo Li, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Li Liu, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Keni Ren, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Shafiq ur Rehman, Digital Media Lab., Department of Applied Physics and Electronics, Umeå University Sweden
Tim Wark, Autonomous Systems Laboratory, CSIRO ICT Centre, Pullenvale QLD 4069 Brisbane, Australia.

Enriching Social Situational Awareness in Remote Interactions

Sreekar Krishna, Arizona State University
Vineeth Balasubramanian, Arizona State University
Sethuraman Panchanathan, Arizona State University

Requirements and Design Space for Interactive Public Displays

Jörg Müller, Deutsche Telekom Laboratories, TU Berlin
Florian Alt, University of Duisburg-Essen
Daniel Michelis, Anhalt University of Applied Sciences
Albrecht Schmidt, University of Duisburg-Essen

POSTER SESSION

SHORT S7

Content / Systems

Session Chair:

Pascal Frossard, EPFL, CH

Multi-Layer Stereo Video Matting

M. Jiang, Loughborough University
Danny Crookes, Queen's University Belfast
Min Chen, University of Wales, Swansea

GPU Acceleration of Effr Descriptors using CUDA

Kristleifur Daðason, Videntifir Technologies ehf.
Herwig Lejsek, Videntifir Technologies ehf.
Ársæll Jóhannsson, Videntifir Technologies ehf.
Björn Jóhannsson, Reykjavik University
Laurent Amsaleg, CNRS-IRISA

Dynamic Multi-cue Tracking with Detection Responses Association

Guochen Jia, Peking University
Yonghong Tian, Peking University
Yaowei Wang, Beijing Institute of Technology
Tiejun Huang, Peking University
Min Wang, Peking University

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| <p><i>KPB-SIFT: A Compact Local Feature Descriptor</i> Gangqiang Zhao, Zhejiang University Ling Chen, Zhejiang University Gencai Chen, Zhejiang University Junsong Yuan, Nanyang Technological University</p> |
| <p><i>Fast Feature Selection and Training for AdaBoost-based Concept Detection with Large Scale DataSets</i> Shi Chen, National Lab of Pattern Recognition, Institute of Automation, CAS Jingqiao Wang, National Lab of Pattern Recognition, Institute of Automation, CAS Yang Liu, National Lab of Pattern Recognition, Institute of Automation, CAS Changsheng Xu, National Lab of Pattern Recognition, Institute of Automation, CAS Hanqing Lu, National Lab of Pattern Recognition, Institute of Automation, CAS</p> |
| <p><i>Large-scale Robust Visual Codebook Construction</i> Darui Li, University of Science and Technology of China Linjun Yang, Microsoft Research Asia Xian-Sheng Hua, Microsoft Research Asia Hong-Jiang Zhang, Microsoft Advanced Technology Center</p> |
| <p><i>Image Annotation Using Multi-Correlation Probabilistic Matrix Factorization</i> Zechao Li, Institute of Automation, Chinese Academy of Sciences Jing Liu, Institute of Automation, Chinese Academy of Sciences Xiaobin Zhu, Institute of Automation, Chinese Academy of Sciences Tinglin Liu, Institute of Automation, Chinese Academy of Sciences Hanqing Lu, Institute of Automation, Chinese Academy of Sciences</p> |
| <p><i>Interactive Panoramic Video Streaming System over Restricted Bandwidth Network</i> Masayuki Inoue, NTT Hideaki Kimata, NTT Katsuhiko Fukazawa, NTT Norihiko Matsuura, NTT</p> |
| <p><i>Understanding the Security and Robustness of SIFT</i> Thanh-Toan Do, Université de Rennes 1 Ewa Kijak, Université de Rennes 1 Teddy Furon, Inria Rennes Bretagne Atlantique Laurent Amsaleg, CNRS</p> |
| <p><i>Implementation and Demonstration of a Credit-based Home Access Point</i> Choong-Soo Lee, Gustavus Adolphus College Mark Claypool, Worcester Polytechnic Institute Robert Kinicki, Worcester Polytechnic Institute</p> |
| <p><i>Spatially Refined Inter-Sequence Error Concealment for a Multi-Broadcast Receiver Using Frequency Selective Approximation</i> Tobias Trüger, University of Erlangen-Nuremberg Jürgen Seiler, University of Erlangen-Nuremberg André Kaup, University of Erlangen-Nuremberg</p> |
| <p><i>Performance Improvement of Distributed Video Coding by Using Block Mode Selection</i> Bo-Ruei Chiou, National Taiwan University Yun-Chung Shen, National Taiwan University Han-Ping Cheng, National Taiwan University Ja-Ling Wu, National Taiwan University</p> |
| <p><i>Fast Decoding for LDPC Based Distributed Video Coding</i> Yu-Shan Pai, Department of Computer Science and Information Engineering, National Taiwan University Han-Ping Cheng, Department of Computer Science and Information Engineering, National Taiwan University Yun-Chung Shen, Graduate Institute of Networking and Multimedia, National Taiwan University Ja-Ling Wu, Graduate Institute of Networking and Multimedia, National Taiwan University</p> |
| <p><i>Shape-Stable Region Boundary Extraction via Affine Morphological Scale Space (AMSS)</i> Petros Kapsalas, Laboratory of Digital Image Processing & Multimedia Analysis Stefanos Kollias, Laboratory of Digital Image Processing & Multimedia Analysis</p> |
| <p><i>Robust Digital Watermarking in Videos Based on Geometric Transformations</i> Philipp Schaber, University of Mannheim Stephan Kopf, University of Mannheim Fabian Bauer, University of Mannheim Wolfgang Effelsberg, University of Mannheim</p> |
| <p><i>Joint Layered Video and Digital Fountain Coding for Multi-Channel Video Broadcasting</i> Wen Ji, Hong Kong Polytechnic University Zhu Li, Hong Kong Polytechnic University</p> |
| <p><i>A Novel P2P and Cloud Computing Hybrid Architecture for Multimedia Streaming with QoS Cost Functions</i> Irena Trajkovska, ETSIT UPM Spain Joaquin Salvachua Rodriguez, ETSIT UPM Spain Alberto Mozo Velasco, EUI UPM Spain</p> |
| <p><i>Hybrid Load Balancing for Online Games</i> Rynson Lau, City University of Hong Kong</p> |

ACM Multimedia Special Sessions Outline

Discussion Room is an experiment for making ACM Multimedia 2010 conference even more interactive and stimulate free interactivity also beyond the traditional Speaker-Attendees scheme. We have imagined that it will include a few talks taken from the Barve New Ideas program and host other free subjects of discussion that are posted by the attendees. To improve discussion we will introduce the possibility of having tweets during the conference sessions, display these tweets in the Discussion Room and let the Session Chair look at them, select the most interesting ones..... We will check the opportunity to involve a much larger group, beyond the attendees of the conference

Multimedia Grand Challenge. What problems do Google, Yahoo!, HP, Radvision, CeWe, Nokia and other companies see driving the future of multimedia? The Multimedia Grand Challenge is a set of problems and issues from these industry leaders, geared to engage the Multimedia research community towards solving relevant, interesting and challenging questions in the multimedia industry's 2-5 year horizon. Finalists of this competition have been invited to describe their work, demonstrate their solution in the Grand Challenge Session at ACM Multimedia 2010. Final winners will be chosen by industry scientists, engineers and business luminaries.

Interactive Multimedia Computing for Creativity and Expression Workshop. The priority of the workshop at ACM Multimedia 2010 is to raise issues about modalities and opportunities for collaboration between artists and scientists. It is organized as a working session where participants are invited to create small groups where to think about each other's skill sets and methods for forming research, and define art-science collaboration projects. Each group member should represent his/her research in the collaboration, address issues of conceptualization and objectives, commonalities of methodologies, and their integration, as well as disparities among methodologies, and how these can be bridged or co-exist address scientific and artistic intellectual merit and impact. A report of each group's plan is expected to an imagined funding agency or set of funding agencies. Short presentations of the reports to the public will be hence accommodated, with a plenary discussion about what was learned, what is interesting.

Open Source Software Competition. The Open-Source Software Competition is an important integral part of the ACM Multimedia 2010 program. The ACM Multimedia 2010 Open-Source Software Competition is the seventh running competition. It is mainly intended to celebrate and encourage the contribution of researchers and software developers to advance the field by providing the community with implementations of codecs, middleware, frameworks, toolkits, libraries, applications, and other multimedia software. The finalist authors will demonstrate their software in the Open Source Software Competition session of ACM Multimedia 2010. Final winners will be chosen by industry and research scientists and engineers.

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ACM Multimedia 2010 International Conference, 25-29th October 2010, Firenze, Italy. **Credits:** [MICC, Media Integration and Communication Centre](#), National Center of Excellence, Università di Firenze, Italy.