## Technical Program Sessions

### Tuesday, October 26

**morning**

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<td>Chairs: Alberto Del Bimbo, University of Firenze, I&lt;br&gt;Shih-Fu Chang, Columbia University, USA&lt;br&gt;Arnold Smeulders, University of Amsterdam, NL</td>
<td>Alberto Del Bimbo, University of Firenze, I&lt;br&gt;Shih-Fu Chang, Columbia University, USA&lt;br&gt;Arnold Smeulders, University of Amsterdam, NL</td>
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<td>Using the Web to do Social Science</td>
<td>Duncan Watts, Yahoo! Research&lt;br&gt;Shih-Fu Chang, Columbia University, USA</td>
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<td>Chair: Yong Rui, Microsoft Research, USA</td>
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<td><strong>Leveraging Lossily-Tagged Images and Inter-Object Correlations for Tag Recommendation</strong></td>
<td>Yi Shen, University of North Carolina at Charlotte&lt;br&gt;Jianping Fan, University of North Carolina at Charlotte</td>
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<td><strong>Multi-label Boosting for Image Annotation by Structural Grouping Sparsity</strong></td>
<td>Fei Wu, Zhejiang University&lt;br&gt;Qi Tian, University of Texas at San Antonio&lt;br&gt;Yueting Zhuang, Zhejiang University</td>
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<td><strong>Efficient Large-Scale Image Annotation by Probabilistic Collaborative Multi-Label Propagation</strong></td>
<td>Fei Wu, Zhejiang University&lt;br&gt;Qi Tian, University of Texas at San Antonio&lt;br&gt;Yueting Zhuang, Zhejiang University</td>
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<td><strong>Unified Tag Analysis With Multi-Edge Graph</strong></td>
<td>Dong Liu, Harbin Institute of Technology&lt;br&gt;Shuicheng Yan, National University of Singapore&lt;br&gt;Yong Rui, Microsoft China R&amp;D Group&lt;br&gt;Hong-Jiang Zhang, Microsoft Advanced Technology Center</td>
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<td>Applications / Human-centered multimedia User-adapted media access</td>
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<td><strong>Sketch-Based 3D Model Retrieval using Diffusion Tensor Fields of Suggestive Contours</strong></td>
<td>Sang Yoon, TU Darmstadt&lt;br&gt;Maximilian Scherer, TU Darmstadt&lt;br&gt;Arjan Kuiper, Fraunhofer IGD</td>
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<td><strong>Crowdsourced Automatic Zoom and Scroll for Video Retargeting</strong></td>
<td>Axel Carlier, National University of Singapore&lt;br&gt;Vincent Charvillat, University of Toulouse&lt;br&gt;Tat-Seng Chua, National University of Singapore</td>
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<td><strong>Personalized Photograph Ranking and Selection System</strong></td>
<td>Che-Hua Yeh, National Taiwan University&lt;br&gt;Jenny Benois Pineau, University of Bordeaux, F&lt;br&gt;Brian Banks, University of California, Berkeley&lt;br&gt;Ming Duhuyoung, National Taiwan University</td>
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<td><strong>Acqua Vellutata Sospesa</strong></td>
<td>Lanka Johannesson, University of Calgary&lt;br&gt;LaBRI, UMR 5800 CNRS, University of Bordeaux&lt;br&gt;Hélène Brisset, UMR 5218 CNRS, University of Bordeaux&lt;br&gt;Philippe Joly, RIT, UMR 5905 CNRS, University Paul Sabatier&lt;br&gt;Jean-François Dartigues, ISPED, INSERM U897, Université Bordeaux 2, CHU de Bordeaux&lt;br&gt;Elie El Khoury, IRIT, UMR 5505 CNRS, University Paul Sabatier&lt;br&gt;Yann Gasellet, ISEP, INSPER, U897, Université Bordeaux 2, CHU de Bordeaux&lt;br&gt;Julien Piquier, RIT, UMR 5505 CNRS, University Paul Sabatier&lt;br&gt;A Multimodal Virtual Environment for Interacting with 3D Deformable Models</td>
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<td><strong>Real-Time Detection of Unusual Regions in Image Streams</strong></td>
<td>Rene Schuster, Joanneum Research&lt;br&gt;Roland Mittringer, Joanneum Research&lt;br&gt;Helmut Grabner, ETH Zurich&lt;br&gt;Luc Van Gool, ETH Zurich</td>
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<td>Yicheng Song, Institute of Computing Technology, Chinese Academy of Science</td>
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<td>Juan Cao, Institute of Computing Technology, Chinese Academy of Science</td>
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<td>Zhineng Chen, Institute of Computing Technology, Chinese Academy of Science</td>
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<td>Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Science</td>
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<td>Jintao Li, Institute of Computing Technology, Chinese Academy of Science</td>
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<td>Kai-Han Tan, Hewlett-Packard Laboratories</td>
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<td>Dan Gelp, Hewlett-Packard Laboratories</td>
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<td>Ramtin Samardani, Hewlett-Packard Laboratories</td>
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<td>Ian Robinson, Hewlett-Packard Laboratories</td>
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<td>Bruce Culbertson, Hewlett-Packard Laboratories</td>
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<td>John Apostolopoulos, Hewlett-Packard Laboratories</td>
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<td>Digesting Omni-video along Routes for Navigation</td>
<td>Hongyuan Cai, Indiana University Purdue University Indianapolis</td>
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<td>Jiang Yu Zheng, Indiana University Purdue University Indianapolis</td>
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<td>Building Block Inventories using Smartphones</td>
<td>David Chen, Stanford University</td>
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<td>Sam Tsai, Stanford University</td>
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<td>Cheng-Hsin Hsu, Deutsche Telekom R&amp;D Laboratories USA</td>
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<td>Kyu-Han Kim, Deutsche Telekom R&amp;D Laboratories USA</td>
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<td>Jatinder Singh, Deutsche Telekom R&amp;D Laboratories USA</td>
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<td>BiemG ior, Stanford University</td>
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<td>C. Atkins, Hewlett-Packard Laboratories</td>
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<td>Nicholas Lyons, Hewlett-Packard Laboratories</td>
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<td>Xuemei Zhang, Hewlett-Packard Laboratories</td>
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<td>Daniel Tretter, Hewlett-Packard Laboratories</td>
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<td>Ramanathan Subramanian, University of Trento, Italy</td>
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<td>Jacopo Staiiano, University of Trento, Italy</td>
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<td>Kyriaki Kalimeri, Fondazione Bruno Kessler</td>
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<td>Nicu Sebe, University of Trento, Italy</td>
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<td>Kori Inkpen, Microsoft Research</td>
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<td>Rajesh Hegde, Microsoft Research</td>
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<td>Sasa Junuzovic, Microsoft Research</td>
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<td>Christopher Brooks, University of Saskatchewan</td>
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<td>John Tang, Microsoft Research</td>
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<td>Zhengyou Zhang, Microsoft Research</td>
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<td>Harish Katti, National University of Singapore</td>
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<td>Ramanathan Subramanian, University of Trento, Italy</td>
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<td>Mohan Kankanhalli, National University of Singapore</td>
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<td>Nicu Sebe, University of Trento, Italy</td>
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<td>Tat-Seng Chua, National University of Singapore</td>
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<td>Kalpathi Ramamrithnan, Indian Institute of Science</td>
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<td>MOOGCLASS: A Collaborative System of Mobile Devices for Classroom Music Education</td>
<td>Yinsheng Zhou, National University of Singapore</td>
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<td>Xinxi Wang, National University of Singapore</td>
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<td>Ye Wang, National University of Singapore</td>
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<td>Shengdong Zhao, National University of Singapore</td>
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<td>Thong Hoang, Konkuk University</td>
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<td>Hyoseop Shin, Konkuk University</td>
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<td>Marco Piovesana, Dept. of Math and Computer Science, University of Udine</td>
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<td>Ying-Jui Chen, Graduate Institute of Networking and Multimedia, National Taiwan University</td>
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<td>Neng-Hao Yu, Graduate Institute of Networking and Multimedia, National Taiwan University</td>
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<td>Hsiang-Tao Wu, Graduate Institute of Networking and Multimedia, National Taiwan University</td>
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<td>Li-Wei Chan, Graduate Institute of Networking and Multimedia, National Taiwan University</td>
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<td>Yi-Ping Hung, Graduate Institute of Networking and Multimedia, National Taiwan University</td>
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<td>Ryan Janzen, University of Toronto</td>
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<td>Shifeng Chen, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences</td>
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<td>Jianzhuang Liu, The Chinese University of Hong Kong</td>
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<td>Xiaocou Tang, The Chinese University of Hong Kong</td>
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<td>Liwei Wang, Shanghai Jiao Tong University</td>
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<td>Huaii Liu, Shanghai Jiao Tong University</td>
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<td>Yuncal Liu, Shanghai Jiao Tong University</td>
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<td>Shelley Buchinger, University of Vienna</td>
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<td>Francaosca De Simone, Ecole Polytechnique Fédérale de Lausanne</td>
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<td>Ewaal Hotop, University of Vienna</td>
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<td>Eye's Do Not Lie: Spontaneous versus Posed Smiles</td>
<td>Helmut Hlavacs, University of Vienna</td>
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<td>Touradj Ebrahimi, Ecole Polytechnique Fédérale de Lausanne</td>
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<td>Daniel Gatica-Perez, IDIAP Research Institute, CH</td>
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DEMO D1
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
Youiti 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

Melodi
Hongyi Li, Zhejiang University
Xian-Sheng Hua, Microsoft Research Asia
Xija 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
Xuemai Zhang, HP labs

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
Haiqing 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 of geo-tagging
Session Chair
Touraj Ebrahimi, EPFL, CH

W2Gx: 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
Shojoji Nishio, Osaka University

PhotoZ/tip: 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 Toulis, National Technical University of Athens
Evaggelos Spyrou, National Technical University of Athens

http://www.acmm10.org/program/technical-program/technical-program...
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

Vicept: Link Visual Features to Concepts for Large-scale Image Understanding
Zhijun Wang, Graduate University, 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
Jonathone 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
jinpao 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 Noisey 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
Ara 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 Mastorarande, University of California Los Angeles (UCLA)
Mihaela Van derSchaar, University of California Los Angeles (UCLA)

Context Dependent SVMs for Interconnected Image Network Annotation
Hichem Sahbi, CNRS TELECOM ParisTech
Xi Li, CNRS TELECOM ParisTech

A Novel Video Hash Algorithm
Li Wang, 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

Movie Genre Classification via Scene Categorization
Howard Zhou, Georgia Institute of Technology
Tucker Hermans, Georgia Institute of Technology
Asmita Kanardikar, Georgia Institute of Technology
James Rehg, Georgia Institute of Technology

Unsupervised Summarization of News 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
Discriminative Codeword Selection for Image Representation
Lijun Zhang, Zhejiang University
Chun Chen, Zhejiang University
Jianjun Bu, Zhejiang University
Zhenguang 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

INTERACTIVE ART I A1
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
Brian 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
Jaschi Feng, National University of Singapore
Yan-lax Zheng, Institute for Infocomm Research
Shuicheng Yan, National University of Singapore

Intelligent Query: Open Another Door to 3D Object Retrieval
Yue Gao, Tsinghua University
Ming Wang, AKIRA Media Systems Inc.
Jiale 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 Cavanaza, Teesside University
Riccardo Leonardi, University of Brescia

FULL F6
Systems
Improving media delivery
Session Chair
Shehrin 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 Hello, Simon Fraser University

Subjective Evaluation of Scalable Video Coding for Content Distribution
Jong-Seok Lee, EPLL
Francesca De Simone, EPLL
Naeem Ramzan, Queen Mary University of London
Zhijie Zhao, Leibniz Universität Hannover
Enig Kurutpe, TU Berlin
Thomas Sikora, TU Berlin
Jörn Ostermann, Leibniz Universität Hannover
Touraj Ebrahimi, EPLL

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
Fong 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)
Hongquan Cai, Indiana University Purdue University Indianapolis (IUPUI)
Mihon 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
DEMO SESSION
DEMO D3
Chair: Kiyoharu Aizawa, University of Tokyo, J
Joke-a-mat HD: Browsing Sitcoms with Human Derived Transcripts
Adam Janin, 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 Tennes, 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
Liping Zhang, Shanghai Jiao Tong University
Lei Zhang, Microsoft Research Asia
Facilitating Interactive Search and Navigation in Videos
Klaus Schoeffmann, Klagenfurt University
BIORACE, a Biometric Face Demonstrator
Mourad Quaret, Orange, France-Telecom R&D
Arifza Dartiacheva, 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 Zygolis, Informatics & Telematics Inst.
Stefanos Kapiris, 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
Shilong Tan, Zhejiang University
Chun Chen, Zhejiang University
Can Wang, Zhejiang University
Hao Wu, Zhejiang University
Lijun Zhang, Zhejiang University
Xiaofei He, Zhejiang University
Xiaohe He, Zhejiang University
Dynamic Capturing: 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 Miliari, 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
Xue-wen Chen, 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 Tolias, 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 Demoue, FX Palo Alto Laboratory
Hamed Pirsavash, University of California, Irvine
Lawrence Rowe, FX Palo Alto Laboratory

A New Approach to Cross-Media 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

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Gabriel Doyle, 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
Yuchi Bannan, 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-Wei Chen, National Taiwan University
Chih-Wei Lin, National Taiwan University
Mike Chen, National Taiwan University
Yu-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
Baochun Li

Remembrance Nicolas Georgias
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 preservation 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 TDICCAP
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:
Leixing Xie, IBM Corp., USA

Restoration of Out-of-focus Lecture Video by Automatic Slide Matching
Ngai-Mann Cheung, Stanford University
David Chen, Stanford University
Vijay Chandrasekhar, Stanford University
Sam Tsai, Stanford University
Gabriel Takaai, Stanford University
Sherif Halawa, Stanford University
Bernd Girod, Stanford University

Increasing Interactivity in Street View Web Navigation Systems
Alexandre Devaux, Université Paris-Est, ISM, MATIS
Nicolas Paparoditis, Université Paris-Est, IGN, MATIS

Improving Face Clustering Using Social Context
Peng Wu, Hewlett-Packard Company
Fang Tang, Hewlett-Packard Company

Region Categorization with Mobile Applications
Jiang Gao, Nokia Corporation

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
Geping Huang, Graduate University of Chinese Academy of Sciences

Artistic Paper-Cut of Human Portraits
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
Geping Huang, Graduate University of Chinese Academy of Sciences

3D Object Retrieval with Bag-of-Region-Words
You Yang, Tsinghua University
Zhongzhi Shi, 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

Sorted Label Classifier Chains for Learning Images with Multi-label
Xu Liu, Institute of Computing Technology, Chinese Academy of Sciences
Zhiping Shi, Institute of Computing Technology, Chinese Academy of Sciences
Zhiwei Li, Institute of Computing Technology, Chinese Academy of Sciences
Xushan Wang, Institute of Computing Technology, Chinese Academy of Sciences
Zhongzhi Shi, Institute of Computing Technology, Chinese Academy of Sciences

Semantic Video Indexing by Fusing Explicit and Implicit Spaces
Yingbin Zheng, Fudan University
Renzhong Wei, Fudan University
Hong Lu, Fudan University

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

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Renzhong Wei, Fudan University
Hong Lu, Fudan University

3D Object Search Through Semantic Component
Chunping Xu, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
Zhengwei Zhang, Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences, China
Jianzhong Liu, The Chinese University of Hong Kong, China
Xiaoxiao 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

3D Object Retrieval with Bag-of-Region-Words
Yu Gao, Tsinghua University
You Yang, Tsinghua University
Qionghai Dai, Tsinghua University
Naiyao Zhang, Tsinghua University

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Semantic Video Indexing by Fusing Explicit and Implicit 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, Li, Key Lab of Intel. Info. Process, Inst. of Comput. Tech., Chinese Academy of Sciences, China
Teijun 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

DEMO SESSION
DEMO D4
Chair: Winston Hsu, National Taiwan University, TW

Rerum Novarum: Interactive Exploration of Illuminated Manuscripts
Danielle 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 Stiefelhagen, 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
Liang Ma, Institute of Computing Technology, Chinese Academy of Science

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 Cullen, Tyndall Research Institute
Alan Smalaton, Dublin City University
Cian O'Mathuna, Tyndall Research Institute
Noel O'Connor, Dublin City University

afternoon

PLENARY PL3
MULTIMEDIA GRAND CHALLENGE
Session Chair: Ceese 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 Akcöver
Montse Pardas
Josep R. Casas

Gaze Awareness and Interaction Support in Presentations: Video Conference Experience Grand Challenge Statement
Kar-Han Tan
Dan Geis
Rami 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 Wörgötter

Social Game Epitome versus Automatic Visual Analysis
Peter Vajta
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 Martín
Oriol Vinyals
Gerald Friedland
Ruzena Bajcsy

ViRaL: Visual Image Retrieval and Localization
Yannis Avrithis
Yannis Kalantidis
Giorgios Toulas

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

Tiānu Zhang
Changsheng Xu
Guangyu Zhu
Si Liu, Hangjun Lu

Video Classification based on Contextual Visual Vocabulary
Shiliang Zhang
Qi Tian
Gang Hua
Qingming Huang
Shujing Jiang
Wen Gao

Improving Personal Diaries Using Social Audio Features
Michael Kuhn
Roger Wattenhofer
Samuel Welte

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 Steinmetz, Technische Universität Darmstadt
Max Mühlhäuser, Technische Universität Darmstadt

Error-Resilient Perceptual Coding for Networked Haptic Interaction
Fernanda Brandl, Technische Universität München
Julius Kammel, Technische Universität München
Edikhard 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
Franzine Chen, FX Palo Alto Laboratory

An Immersive System for Browsing and Visualizing Surveillance Video
Fernanda Brandl, Technische Universität München
Jochen Huber, Technische Universität Darmstadt
Julius Kammel, Technische Universität München
Edikhard Steinbach, Technische Universität München

**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

Scry: Your Face: Facial Expressions for Sound Generation
Roberto Valenti, University of Amsterdam
Alejandro James, 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

Orca: Continuous State-based Media Choreography System for Live Performance
Xin Wei Sha, 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-Hsiuan 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
Li-lu 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
Kugamoomrty Gajanan, National Institute of Informatics
Trung, 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
Ginevra 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 McGowan, 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 Carmuri, University of Genoa
Andrea Sichenone, University of Genoa

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

MuVits: 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 Planté, Ecole des Mines d’Alès
Michel Crampes, Ecole des Mines d’Alès

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

AudioFeeds – A Mobile Auditory Application for Monitoring Online Activities
Chreston Miller, Virginia Tech
Francis Quek, Virginia Tech
Nareen RamaKrishnan, Virginia Tech

Automated Sleep Quality Measurement using EEG Signal
Wei Zhao, National University of Singapore
Xinli 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 Gobel, TU Darmstadt
Sandro Hardy, TU Darmstadt
Viktor Wendel, TU Darmstadt
Florian Mehmen, TU Darmstadt
Ralf Stentz, 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

Chen Liu, NUS
Beng Chin Ooi, NUS
Anthony K. H. Tung, NUS
Dongliang 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 Ciha, AUO, University of Ljubljana
Bojan Klemenč, 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 Federale de Lausanne (EPFL)
Clément Fredenbach, Ecole Polytechnique Federale de Lausanne (EPFL)
Daniel Tamburrino, Ecole Polytechnique Federale 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
Cai 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
Xinseng Wang, National University of Singapore
Qiaolong 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 Walther, 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

Modelling 3D Facial Expressions Using Geometry Videos
Jiazi Xiu, Nanyang Technological University
Ying He, Nanyang Technological University
Dao Quyhn, Nanyang Technological University
Xiaoming Chen, Nanyang Technological University
Steven Ho, 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
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<th>University, Country</th>
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<td>University of Ottawa, CA</td>
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<td>Meng Wang</td>
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<td>Mengdi Xu</td>
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<td>Shuxieng Yan</td>
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<td>Tati-Song Chua</td>
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<td>Chunli Liu</td>
<td>Graduate University of Chinese Academy of Sciences</td>
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<td>Qingming Huang</td>
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<td>Shuqiang Jiang</td>
<td>Institution of Computing Technology, Chinese Academy of Sciences</td>
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<td>Xiangyi Lu</td>
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<td>Dajiang Zhu</td>
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<td>Carlos Faraco</td>
<td>The University of Georgia</td>
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<td>Degang Zhang</td>
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<td>Arsham Mesbah</td>
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<td>Yimeng Han</td>
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<td>Xiansheng Hua</td>
<td>Microsoft Research Asia</td>
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<td>Li Xie</td>
<td>The University of Georgia</td>
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<td>Stephen Miller</td>
<td>The University of Georgia</td>
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<td>Lei Guo</td>
<td>Northwestern Polytechnic University</td>
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<td>Tanming Liu</td>
<td>The University of Georgia</td>
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**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
Shuxieng Yan, Dept. of ECE, National University of Singapore

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

Chunli 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
Shangsheng 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 Zhu, Dublin City University
Column 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 Polytechnic University
Fan Deng, the University of Georgia
Kaiming Li, Northwestern Polytechnic University
Tuo Zhang, Northwestern Polytechnic University
Hansu Chen, Northwestern Polytechnic University
Xi Jiang, Northwestern Polytechnic University
Jingle Li, Northwestern Polytechnic University
Dajiang Zhu, the University of Georgia

**Virtual Environment for Surprises**

Lara Olivetti, Melazeta Srl
Marcella Albiero, Melazeta Srl
Pao 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**

Qian Li, Institute for Infocomm Research
Aiyan 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**

Ong 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 Riefelt, 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 Pirsaavid, University of California, Irvine
Lawrence Rives, 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
Heesoon 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 Vincenot, Technicolor
Mário 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 Richrath, IBM Research
Lucas Vlla Reali, 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 Austin

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.
Timothée Baillieu, 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 Lostplete, IBM Almaden Research Center
Hongzhi Jin, IBM Almaden Research Center
Eric Wilcox, IBM Almaden Research Center

Physical Hyperlinks For Citizen Interaction

Dustin Haider, City of Manor
Phil Tate, City of Manor
Mobile Document Scanning and Copying

Jian Pan, Hewlett-Packard Labs
Qian Lin, Hewlett-Packard Labs
Jerry Liu, Hewlett-Packard Labs

Data-driven behavioral algorithms for online advertising

Antonio Tomarchio, Dada spa
Francesco Bellacci, Dada spa
Filippo Privitera, Dada spa

POSTER SESSION

Chair: Sethuraman Panchanathan, Arizona State University, USA

Building with a Memory: Responsive Color Interventions

Andrea Danielescu, Arizona State University
Ryan Spicer, Arizona State University
David Tinapple, Arizona State University
Aisling Kelliher, Arizona State University
Elen 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

Titi

Nicole Lehrer, Arizona State University
Stephan Rajko, Arizona State University
Diana Siwiak, Arizona State University
David Tinapple, Arizona State University
Isaac Walls, Arizona State University
Tatiana Kozupa, Arizona State University
Meng Chen, Arizona State University
Michael Baran, Arizona State University
Assegid Kidane, Arizona State University
David Lori, Arizona State University
Loren Olson, Arizona State University

HUM, an Interactive and Collaborative Art Installation

Jean-Julien Filatriau, Université catholique de Louvain
François Zajèga, Artist

Coming Together – Composition by Negotiation

Arne Eigenfeldt, Simon Fraser University

RTiVISS | 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 Mansfield, Norwegian University of Science and Technology (NTNU)
Jordi Pujol, 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
Ayap 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 Aisi, University of Firenze, Italy
Gianpaolo D’Amico, University of Firenze, Italy
Andrea Ferracani, University of Firenze, Italy
Lea Landucci, University of Firenze, Italy
Nicola Torpey, 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
Ya-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
Wei 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
Wenliang 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
Lai 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 Wit, 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 Diotis, University of Verona
Vittorio Murino, University of Verona
Antonio Roda, 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
Nun Oliver, Telefonica Research

Multimedia Content Creation using Societal-Scale Ubiquitous Camera Networks and Human-Centric Wearable Sensing
Mathew Laiwitz, 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 Universität München, Institute for Human-Machine Communication
Martin Wöllmer, Technische Universität München, Institute for Human-Machine Communication
Bjoern Schuller, Technische Universität München, Institute for Human-Machine Communication

Technical Program Sessions | ACM Multimedia 2010
http://www.acmmm10.org/program/technical-program/technical-program-...
<p>| Open SVC Decoder: A Flexible SVC Library | Médéric Blestel, 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 Sandier, Queen Mary University of London |
| ViPear | Andrea Vadaldi, University of Oxford; Brian Fulkerson, University of California at Los Angeles |
| TOP-SURF: A Visual Words Toolkit | Bart Thomée, LIACS Media Lab, Leiden University; Ewijn 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 Orto, 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 | Andrud Kerne, Texas A&amp;M University, USA |
| POSTER SESSION | 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; Péter Vingelmann, 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 | Zhileang 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; Jianqiu Xie, 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; Yongdong Zhang, Institute of Computing Technology, Chinese Academy of Sciences; Jinbao 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 Arvamides, 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; Zhongping Wang, School of Computer Engineering, Nanyang Technological University; Liang-Tien Chia, School of Computer Engineering, Nanyang Technological University; Ivoir Wei-Hung Tsang, School of Computer Engineering, Nanyang Technological University |
| Auto-tagging of Images in Non-English Languages Using Tag Language Conversion | Kelichiro Hoashi, KDDI R&amp;D Laboratories Inc.; Hiromi Ishizaki, KDDI R&amp;D Laboratories Inc.; Hjalmar Wennerstrom, Uppsala University; Yasuhiro Takishima, KDDI R&amp;D Laboratories Inc. |
| Landmark Image Retrieval Using Visual Synonyms | Eltartados Gavves, University of Amsterdam; Cees Snoek, University of Amsterdam |
| Approximate Image CoWr Cornelongrams | 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 |</p>
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<td>Automatically Protecting Privacy in Consumer Generated Videos Using</td>
<td>Jin-tao Li, Institute of Computing Technology, Chinese Academy of Sciences</td>
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<td>Intended Human Object Detector</td>
<td>Yuta Nakashima, Graduate School of Engineering, Osaka University</td>
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<td>Noboru Babaguchi, Graduate School of Engineering, Osaka University</td>
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<td>Jianping Fan, UNC-Charlotte</td>
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<td>Non-parametric Anomaly Detection Exploiting Space-time Features</td>
<td>Lorenzo Seidenari, University of Firenze</td>
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<td>Marco Bertini, University of Firenze</td>
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<td>A Suitable Cover Identification Engine</td>
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 Technical Program Sessions | ACM Multimedia 2010

Competition session of ACM Multimedia 2010. Final winners will be chosen by industry and research scientists and engineers.

Implementations of codecs, middleware, frameworks, toolkits, libraries, applications, and other multimedia software. The finalist authors will demonstrate their software in the Open Source Software Discussion Room.

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 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.

ACM Multimedia Special Sessions Outline

Discussion Room

Understanding the Security and Robustness of SIFT
Thanh-Toan Do, Université de Rennes 1
Ewa Kijak, Université de Rennes 1
Teddy Furon, Inria Rennes Bretagne Atlantique
Laurent Aimable, CNRS

Implementation and Demonstration of a Credit-based Home Access Point
Choong-Soo Lee, Gustavus Adolphus College
Mark Claypool, Worcester Polytechnic Institute
Robert Knidci, Worcester Polytechnic Institute

Spatially Refined Inter-Sequence Error Concealment for a Multi-Broadcast Receiver Using Frequency Selective Approximation
Tobias Trüger, University of Erlangen-Nuremberg
Jürgen Seiler, University of Erlangen-Nuremberg
André Kaup, University of Erlangen-Nuremberg

Performance Improvement of Distributed Video Coding by Using Block Mode Selection
Bo-Ruei Chou, National Taiwan University
Yun-Chung Shen, National Taiwan University
Han-Ping Cheng, National Taiwan University
Ja-Ling Wu, National Taiwan University

Fast Decoding for LDPC Based Distributed Video Coding
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

Shape-Stable Region Boundary Extraction via Affine Morphological Scale Space (AMSS)
Petros Kollias, Laboratory of Digital Image Processing & Multimedia Analysis

Robust Digital Watermarking in Videos Based on Geometric Transformations
Philipp Schaber, University of Mannheim
Stephan Kopf, University of Mannheim
Fabian Bauer, University of Mannheim
Wolfgang Effelsberg, University of Mannheim

Joint Layered Video and Digital Fountain Coding for Multi-Channel Video Broadcasting
Wei Ji, Hong Kong Polytechnic University
Zhu Li, Hong Kong Polytechnic University

A Novel P2P and Cloud Computing Hybrid Architecture for Multimedia Streaming with QoS Cost Functions
Irena Trajkovska, ETSIF UPM Spain
Joaquín Salavachúa Rodríguez, ETSIF UPM Spain
Alberto Muñoz Walasco, ETSIF UPM Spain

Hybrid Load Balancing for Online Games
Ryntson Lau, City University of Hong Kong

Fast Feature Selection and Training for AdaBoost-based Concept Detection with Large Scale Datasets
Shi Chen, National Lab of Pattern Recognition, Institute of Automation, CAS
Jinpiao 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
Hanjie Li, National Lab of Pattern Recognition, Institute of Automation, CAS

Large-scale Robust Visual Codebook Construction
Darul Li, University of Science and Technology of China
Linjun Yang, Microsoft Research Asia
Xiaon-Sheng Hua, Microsoft Research Asia
Hong-Jiang Zhang, Microsoft Advanced Technology Center

Image Annotation Using Multi-Correlation Probabilistic Matrix Factorization
Zhebao Li, Institute of Automation, Chinese Academy of Sciences
Jing Liu, Institute of Automation, Chinese Academy of Sciences
Xiaodong Zhu, Institute of Automation, Chinese Academy of Sciences
Tinglin Liu, Institute of Automation, Chinese Academy of Sciences
Hanjie Li, Institute of Automation, Chinese Academy of Sciences

Interactive Panoramic Video Streaming System over Restricted Bandwidth Network
Masayuki Inoue, NTT
Hideaki Kimata, NTT
Katsuhiko Fukazawa, NTT
Norihiko Matsura, NTT

Understanding the Security and Robustness of SIFT
Thanh-Toan Do, Université de Rennes 1
Ewa Kijak, Université de Rennes 1
Teddy Furon, Inria Rennes Bretagne Atlantique
Laurent Aimable, CNRS

Implementation and Demonstration of a Credit-based Home Access Point
Choong-Soo Lee, Gustavus Adolphus College
Mark Claypool, Worcester Polytechnic Institute
Robert Knidci, Worcester Polytechnic Institute

Spatially Refined Inter-Sequence Error Concealment for a Multi-Broadcast Receiver Using Frequency Selective Approximation
Tobias Trüger, University of Erlangen-Nuremberg
Jürgen Seiler, University of Erlangen-Nuremberg
André Kaup, University of Erlangen-Nuremberg

Performance Improvement of Distributed Video Coding by Using Block Mode Selection
Bo-Ruei Chou, National Taiwan University
Yun-Chung Shen, National Taiwan University
Han-Ping Cheng, National Taiwan University
Ja-Ling Wu, National Taiwan University

Fast Decoding for LDPC Based Distributed Video Coding
Yu-Shan Pai, Department of Computer Science and Information Engineering, National Taiwan University
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Yun-Chung Shen, Graduate Institute of Networking and Multimedia, National Taiwan University
Ja-Ling Wu, Graduate Institute of Networking and Multimedia, National Taiwan University

Shape-Stable Region Boundary Extraction via Affine Morphological Scale Space (AMSS)
Petros Kollias, Laboratory of Digital Image Processing & Multimedia Analysis

Robust Digital Watermarking in Videos Based on Geometric Transformations
Philipp Schaber, University of Mannheim
Stephan Kopf, University of Mannheim
Fabian Bauer, University of Mannheim
Wolfgang Effelsberg, University of Mannheim

Joint Layered Video and Digital Fountain Coding for Multi-Channel Video Broadcasting
Wei Ji, Hong Kong Polytechnic University
Zhu Li, Hong Kong Polytechnic University

A Novel P2P and Cloud Computing Hybrid Architecture for Multimedia Streaming with QoS Cost Functions
Irena Trajkovska, ETSIF UPM Spain
Joaquín Salavachúa Rodríguez, ETSIF UPM Spain
Alberto Muñoz Walasco, ETSIF UPM Spain

Hybrid Load Balancing for Online Games
Ryntson Lau, City University of Hong Kong

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 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 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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