

MIR 2008 Program

ACM International Conference on Multimedia Information Retrieval
October 30-31, 2008, Vancouver, Canada

Day 1

9:00 – 9:05 Opening - Michael S. Lew

9:05 – 10:00 Keynote - Thomas S. Huang, University of Illinois at UC

What are the 7 Millennium Problems in Multimedia Information Retrieval?

10:00 – 10:30 Coffee

10:30 – 12:10 Brave New Topics (Chair: Mark Zhang, SUNY Binghamton)

Mining GPS Traces and Visual Words for Event Classification (Invited)

Junsong Yuan, Jiebo Luo, Ying Wu,

Kodak Research Laboratories

Combining Image Descriptors to Effectively Retrieve Events from Visual Lifelogs

Aiden R. Doherty, Ciarán Ó Conaire, Michael Blighe, Alan F. Smeaton, Noel E. O'Connor,

Dublin City University

Monitoring Visual Focus of Attention via Local Discriminant Projection

Honggang Zhang, Lorant Toth, Weihong Deng, Jun Guo, Jie Yang,

Carnegie Mellon University

SpiritTagger: A Geo-Aware Tag Suggestion Tool Mined from Flickr

Emily Moxley, Jim Kleban, B.S. Manjunath,

University of California, Santa Barbara

Locating Key Views for Image Indexing of Spaces

Hongyuan Cai, Jiang Yu Zheng,

Indiana Univ. Purdue Univ. Indianapolis

12:10 – 12:30 ACM MIR Flickr Retrieval Evaluation - *Mark Huiskes, Michael S. Lew*

12:30 – 13:50 Lunch

13:50 – 15:30 Image Retrieval (Chair: Shih-Fu Chang, Columbia University)

Face Annotation for Personal Photos Using Context-Assisted Face Recognition

Jae Young Choi, Seungji Yang, Yong Man Ro, Konstantinos N. Plataniotis,

Information and Communication University

A String Matching Approach for Visual Retrieval and Classification

Mei-Chen Yeh, Kwang-Ting Cheng,

University of California, Santa Barbara

Large Scale Image Copy Detection Evaluation

Bart Thomee, Erwin M. Bakker, Mark J. Huiskes, Michael S. Lew,

Leiden University

Diversifying Image Search with User Generated Content

Roelof van Zwol, Vanessa Murdock, Lluís Garcia Pueyo, Georgina Ramirez,

Yahoo! Research

Automatic Image Tagging as a Random Walk with Priors on the Canonical Correlation Subspace

Timothée Baillioeul, Caizhi Zhu, Yinghui Xu,

Ricoh Software Research Center

15.30 – 16.00 Coffee break

16:00 – 16:20 Poster Boaster Session (Chair: Mark Huiskes, Leiden University)

16:20 – 17:30 Poster Session 1

19.00 – 22.00 MIR Dinner Cruise

Day 2

9:00 – 9:40 Frontier Talk 1 - Ramesh Jain, University of California, Irvine (Chair: Michael S. Lew, Leiden University)

Multimedia Information Retrieval: Watershed Moments

9.40 – 10.00 Poster Boaster Session (Chair: Mark Huiskes, Leiden University)

10.00 – 10.30 Coffee break

10.30 – 11:10 Frontier Talk 2 - Shih-Fu Chang, Columbia University (Chair: Mark Zhang, SUNY Binghamton)

CuZero: Embracing the Frontier of Interactive Visual Search for Informed Users

11:10 – 12:30 Poster Session 2

12:30 – 14:00 Lunch

14:00 – 15:40 3D Object Retrieval (Chair: Alberto del Bimbo, University of Florence)

A Rectilinearity Measurement for 3D Meshes

Zhouhui Lian, Paul L. Rosin, Xianfang Sun,
Beihang University and Cardiff University

Multiresolution Wavelet Analysis of Shape Orientation for 3D Shape Retrieval

Zhenbao Liu, Jun Mitani, Yukio Fukui, Seiichi Nishihara,
University of Tsukuba

Ranking on Semantic Manifold for Shape-Based 3D Model Retrieval

Ryutarou Ohbuchi, Toshiya Shimizu,
University of Yamanashi

Unsupervised Modeling and Recognition of Object Categories with Combination of Visual Contents and Geometric Similarity Links

Gunhee Kim, Christos Faloutsos, Martial Hebert,
Carnegie Mellon University

Outdoors Augmented Reality on Mobile Phone using Loxel-based Visual Feature Organization

Gabriel Takacs, Vijay Chandrasekhar, Natasha Gelfand, Yingen Xiong, Wei-Chao Chen, Thanos Bismpiagiannis, Radek Grzeszczuk, Kari Pulli, Bernd Girod,
Stanford University

15:40 – 16:00 Coffee break

16:00 – 17:40 Video Retrieval and Concept Detection (Chair: Mark Zhang, SUNY Binghamton)

Video Copy Detection Based on Source Device Characteristics: A Complementary Approach to Content-Based Methods

Sevinc Bayram, Husrev Taha Sencar, Nasir Memon,
NYU Poly

Collaborative Learning for Image and Video Annotation

Bo Geng, Linjun Yang, Chao Xu, Xian-Sheng Hua,
Peking University

An Efficient Algorithm for Keyframe-based Motion Retrieval in the Presence of Temporal Deformations

Andreas Baak, Meinard Müller, Hans-Peter Seidel,
Max-Planck-Institut für Informatik

Assessing Concept Selection for Video Retrieval

Bouke Huurnink, Katja Hofmann, Maarten de Rijke,
University of Amsterdam

A Framework for Classifier Adaptation and its Applications in Concept Detection.

Jun Yang, Alexander G. Hauptmann,
Carnegie Mellon University

17:40 – 17:45 Closing - Michael S. Lew

Poster Session 1

Audio Retrieval

A Critical Assessment of Spoken Utterance Retrieval through Approximate Lattice Representations

Siavash Kazemian, Frank Rudzicz, Gerald Penn, Cosmin Munteanu

A Generalized Graph-Spectral Approach to Melodic Modeling and Retrieval

Alberto Pinto, Paolo Tagliolato

Content-based Mood Classification for Photos and Music

Peter Dunker, Stefanie Nowak, André Begau, Cornelia Lanz

Large-Scale Content-Based Audio Retrieval from Text Queries

Gal Chechik, Eugene Ie, Martin Rehn, Samy Bengio, Dick Lyon

On Enabling Techniques for Personal Audio Content Management

Tommi Lahti, Marko Helén, Olli Vuorinen, Eero Väyrynen, Juha Partala, Johannes Peltola, Satu-Marja Mäkelä

Searching Musical Audio Datasets by a Batch of Multi-Variant Tracks

Yi Yu, J. Stephen Downie, Lei Chen, Vincent Oria, Kazuki Joe

Image Retrieval

An Efficient Image Normalization Method for Face Recognition under Varying Illuminations

Moonhwi Lee, Cheong Hee Park

Can Relevance of Images be Inferred from Eye Movements?

Arto Klami, Craig Saunders, Téoílo E. de Campos, Samuel Kaski

Cross-Media Manifold Learning for Image Retrieval & Annotation

Xianming Liu, Rongrong Ji, Hongxun Yao, Pengfei Xu, Xiaoshuai Sun, Tianqiang Liu

Extracting Contextual Information from Multi-user Systems for Improving Annotation-based Retrieval of Image Data

Johanna Vompras, Thomas Scholz, and Stefan Conrad

Graph-based Multiple-Instance Learning for Object-based Image Retrieval

Changhu Wang, Lei Zhang, Hong-Jiang Zhang

Image Retrieval using Query by Contextual Example

Nikhil Rasiwasia, Nuno Vasconcelos

Late Fusion of Heterogeneous Methods for Multimedia Retrieval of Images

Hugo Jair Escalante, Carlos A. Hernández, L. Enrique Sucar, Manuel Montes

Learning Tag Relevance by Neighbor Voting for Social Image Retrieval

Xirong Li, Cees G.M. Snoek, Marcel Worring

Multimodal Photo Annotation and Retrieval on a Mobile Phone

Xavier Anguera, JieJun Xu, Nuria Oliver

Ontology Enhanced Web Image Retrieval: Aided by Wikipedia & Spreading Activation Theory

Huan Wang, Xing Jiang, Liang-Tien Chia, Ah-Hwee Tan

Salient points in Multimedia Retrieval

Interest Points based on Maximization of Distinctiveness

Ard Oerlemans, Michael S. Lew

A Salient-Point Signature for 3D Object Retrieval

Indriyati Atmosukarto, Linda G. Shapiro

Component Based Shape Retrieval Using Differential Profiles

Lei Ding, Mikhail Belkin

Robust Foreground Segmentation Based on Two Effective Background Models

Xi Li, Weiming Hu, Zhongfei Zhang, Xiaoqin Zhang

Poster Session 2

Video Concept, Action and Retrieval

Action Video Retrieval based on Atomic Action Vocabulary

Sang-Hack Jung, Yanlin Guo, Rakesh Kumar

Optimizing Video Search Reranking via Minimum Incremental Information Loss

Yuan Liu, Tao Mei, Xiuqing Wu, Xian-Sheng Hua

Human Activity Localization via Sequential Change Detection

Alexia Briassouli, Ioannis Kompatsiaris

Place Retrieval with Graph-based Place-View Model

Xiaoshuai Sun, Rongrong Ji, Hongxun Yao, Pengfei Xu, Tianqiang Liu, Xianming Liu

Solving the Label Resolution Problem in Supervised Video Content Classification

Ullas Gargi, Jay Yagnik

Spatio-Temporal Features for Robust Content-Based Video Copy Detection

Geert Willems, Tinne Tuytelaar, Luc Van Gool

Spatio-Temporal Pyramid Matching for Sports Videos

Jaesik Choi, Won J. Jeon, Sang-Chul Lee

Transductive Multi-Label Learning for Video Concept Detection

Jingdong Wang, Yinghai Zhao, Xiuqing Wu, Xian-Sheng Hua

View-Invariant Action Recognition using Interest Points

Yang Yuedong, Hao Aimin, Zhao Qinpeng

Multimedia Retrieval and Modeling

An Efficient Indexing Structure for Multimedia Data

Thierry Urruty, Chabane Djeraba, Joemon M. Jose

Applications of Description Logics to Improve Multimedia Information Retrieval for Efficient Educational Tools

Serge Linckels, Christoph Meinel

Improving Object Detection by Removing Noisy Samples from Training Sets

Gunawan Herman, Getian Ye, Jie Xu, Bang Zhang

Perplexity-based Evidential Neural Network Classifier Fusion using MPEG-7 Low-level Visual Features

Rachid Benmokhtar, Benoit Huet

Semantic Lattices for Multiple Annotation of Images

Anne-Marie Tousch, Stéphane Herbin, Jean-Yves Audibert

Towards a Structure-based Multimedia Retrieval Model

Mouna Torjmen, Karen Pinel-Sauvagnat, Mohand Boughanem

Multimedia Browsing and Summarization

A Novel Approach to Enable Semantic and Visual Image Summarization for Interactive Exploration

Jianping Fan

A Set Theoretical Method for Video Synopsis

Min Xu, Stan Z. Li, Bin Li, Xiao-Tong Yuan, Shi-Ming Xiang

Aggregated Cross-Media News Visualization and Personalization

Cyril Rohr, Dian Tjondronegoro

"Inside the Bible": Segmentation, Annotation and Retrieval for a New Browsing Experience

Costantino Grana, Daniele Borghesani, Simone Calderara, Rita Cucchiara

Multimedia Ontology Learning for Automatic Annotation and Video Browsing

Anupama Mallik, P. Poornachander, Santanu Chaudhury

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