

MIRO4 Program

DAY 1:

9.00 - 9.10 Opening Remarks: Michael S. Lew

9.10 - 10.15 Keynote address: On 3D Shape Content-based Retrieval

Alberto del Bimbo, University of Florence, Italy

10.15 - 10.40 Coffee

10.40 - 12.20 Oral Session - Learning I (Chair: Nicu Sebe)

An User Preference Information Based Kernel for SVM Active Learning in Content-based Image Retrieval

Hua Xie, and Antonio Ortega

ResearchExplorer: Gaining Insights through Exploration in Multimedia Scientific Data

Bo Gong, Rahul Singh, and Ramesh Jain

Mean Version Space: A New Active Learning Method for Content-based Image Retrieval

Jingrui He, Mingjing Li, Hong-Jiang Zhang, Hanghang Tong, and Changshui Zhang

Retrieval of Difficult Image Classes Using SVM-Based Relevance Feedback

Marin Ferecatu, Michel Crucianu, and Nozha Boujemaa

Boosting Contextual Information in Content-based Image Retrieval

Jaume Amores, Nicu Sebe, Petia Radeva, Theo Gevers, and Arnold Smeulders

12.20 - 13.50 Lunch

13.50 - 15.30 Oral Session - Video I (Chair: Alan Smeaton)

Key-Frame Extraction Algorithm using Entropy Difference

Markos Mentzelopoulos and Alexandra Psarou

Content Based Access for a Massive Database of Human Observation Video

Laurent Joyeux, Erika Doyle, Hugh Denman, Andrew Crawford, Adrien Bousseau, Anil Kokaram, and Ray Fuller

Clip-based Similarity Measure for Hierarchical Video Retrieval

Yuxin Peng and Chong-Wah Ngo

Fast and Robust Short Video Clip Search Using an Index Structure

Junsong Yuan, Ling-Yu Duan, Qi Tian, and Changsheng Xu

Structuring Home Video by Snippet Detection and Pattern Parsing

Zailiang Pan and Chong-Wah Ngo

15.30 - 15.50 Coffee

15.50 - 17.00 Multimedia Information Retrieval - New challenges (Chair: William Grosky)

Panelists: Alberto del Bimbo, University of Florence, Italy

William Grosky, University of Michigan - Dearborn, USA

Ramesh Jain, Georgia Institute of Technology, USA

Wei-Ying Ma, Microsoft Research China

Bernard Merialdo, Institut Eurécom, France

Alan Smeaton, Dublin City University, Ireland

DAY 2:

9.10 - 10.15 Keynote address: The Psychology of MIR

John R. Kender, Columbia University, USA

10.15 - 10.40 Coffee

10.40 - 11.05 Boaster Session (Chair: Nicu Sebe)

11.05 - 12.30 Interactive Oral Sessions

Learning II (Interactive Oral)

Relevance Feedback: Perceptual Learning and Retrieval in Bio-computing, Photos, and Video
M. Haas, J. Rijsdam, B. Thomee, and M.S. Lew

A Time Series Clustering Based Framework for Multimedia Mining and Summarization Using Audio Features
Regunathan Radhakrishnan, Ajay Divakaran, and Ziyou Xiong,

Long-Term Learning of Semantic Grouping from Relevance Feedback
Tomohiro Yoshizawa and Haim Schweitzer,

Experimenting with Music Taste Prediction by User Profiling
Marco Grimaldi and Padraig Cunningham

Image II (Interactive Oral)

Latent Semantic Analysis of Facial Action Codes for Automatic Facial Expression Recognition
Beat Fasel, Florent Monay, and Daniel Gatica-Perez

Efficient 3D Object Retrieval Using Depth Images
Nikhil Vajramushti, Ioannis A. Kakadiaris, Theoharis Theoharis, and G. Papaioannou

Analysing the Performance of Visual, Concept, and Text Features in Content-Based Video Retrieval
Mika Rautiainen, Timo Ojala, and Tapio Seppänen

A Multimodal Approach to Time-Invariant Scene Retrieval from Single Overhead Image
Jian Yao, Zhongfei Zhang, and Lijun Yin

Video II (Interactive Oral)

Concept-Oriented Video Skimming and Adaptation via Semantic Classification
Hangzai Luo and Jianping Fan

Video Story Segmentation with Multi-modal Features: Experiments on TRECVID 2003
L. Besacier, G.M. Quénot, S. Ayache, D. Moraru

Symbolic Representation and Retrieval of Moving Object Trajectories
Lei Chen, M. Tamer Ozsu, and Vincent Oria,

A Hybrid System for Affine-Invariant Trajectory Retrieval
Faisal I. Bashir, Ashfaq Khokhar, and Dan Schonfeld,

Latent Semantic Analysis For An Effective Region-Based Video Shot Retrieval System
F. Souvannavong, B. Huet, and B. Merialdo

Action Movies Segmentation and Summarization Based on Tempo Analysis
Hsuan-Wei Chen

Application II (Interactive Oral)

Offense Based Temporal Segmentation for Event Detection in Soccer Video
L. Wang, M. Lew, and G. Xu

The Power of Play-Break for Automatic Detection and Browsing of Self-consumable Sport Video Highlights
Dian Tjondronegoro, Phoebe Yi-Ping Chen, and Binh Pham

Repeating Pattern Discovery and Structure Analysis from Acoustic Music Data
Lie Lu, Muyuan Wang, and Hong-Jiang Zhang,

Towards Automatic Analysis of Social Interaction Patterns in a Nursing Home Environment from Video
Datong Chen, Jie Yang, and Howard D. Wactlar

Semantic Video Adaptation based on Automatic Annotation of Sport Videos
Marco Bertini, Rita Cucchiara, Alberto Del Bimbo, and Andrea Prati

Internet and WWW-based Systems (Interactive Oral)

A High Performance Crawling System
Younès Hafri and Chabane Djeraba

A Web-Enabled Video Indexing System
Jian Zhou and Xiao-Ping Zhang

Autonomous Visual Model Building Based on Image Crawling through Internet Search Engines
Xiaodan Song, Ching-Yung Lin, and Ming-Ting Sun

12.30 - 13.50 Lunch

13.50 - 15.30 Oral Session - Applications I (Chair: Andreas Girgensohn)

A Statistical Approach to Retrieval under User-dependent Uncertainty in Query-by-Humming Systems
Erdem Unal, Shrikanth S. Narayanan, and Elaine Chew

The Story Picturing Engine: Finding Elite Images to Illustrate a Story Using Mutual Reinforcement
D. Joshi, J. Z. Wang, and J. Li

The Fusion of Audio-Visual Features and External Knowledge for Event Detection in Team Sports Video
Huaxin Xu and Tat-Seng Chua

Texture Based Medical Image Indexing and Retrieval : Application to Cardiac Imaging
Tristan Glatard, Johan Montagnat, and Isabelle Magnin

A Query Description Model Based on Basic Semantic Unit Composite Petri-Net for Soccer Video
Songyang Lao, Alan F. Smeaton, Gareth J. F. Jones, and Hyowon Lee,

15.30 - 15.50 Coffee

15.50 - 17.30 Oral Session - Image I (Chair: Michael S. Lew)

Retrieval of 3D Objects by Visual Similarity
J. Assfalg, A. del Bimbo, and P. Pala

Effective Browsing of Web Image Search Results
Hao Liu, Xing Xie, Xiaou Tang, Zhi-Wei Li, and Wei-Ying Ma

Image Recognition for Digital Libraries
Bertrand Le Saux and Giuseppe Amato

Leveraging Face Recognition Technology to Find and Organize Photos
Andreas Girgensohn, John Adcock, and Lynn Wilcox

A Graphical User Interface for a Fine-Art Painting Image Retrieval System
Thomas Lombardi, Sung-Hyuk Cha, and Charles Tappert

17.30 - 17.40 Closing Remarks: Michael S. Lew