

ACM Intl. Conference on Multimedia Retrieval (ICMR-2016)

June 6 – 9, 2016

Monday June 6, 2016

08:20AM – 09:00AM REGISTRATION

09:00AM – 10:40AM 1st Intl. Workshop on Multimedia Analysis and Retrieval for Multimodal Interaction (part 1)

“A Multimodal Annotation Schema for Non-Verbal Affective Analysis in the Health-Care Domain,” Federico Sukno (UPF), Mónica Dominguez (UPF), Adriá Ruiz Ovejero (UPF), Dominik Schiller (University of Augsburg), Florian Lingensfelder (University of Augsburg), Louisa Pragst (UULM), Eleni Kamateri (CERTH-ITI) and Stefanos Vrochidis (CERTH-ITI)

“Towards an Ontology-driven Adaptive Dialogue Framework,” G. Meditskos (CERTH), S. Dasiopoulou (UPF), Louisa Pragst (UULM), Stefan (UULM), S. Vrochidis (CERTH), I. Kompatsiaris (CERTH), L. Wanner (UPF)

“Effective Speaker Retrieval and Recognition through Vector Quantization and Unsupervised Distance Learning,” Victor Campos (UNESP) and Daniel Pedronette (UNESP)

10:40AM – 11:00AM COFFEE BREAK

11:00AM – 12:40PM 1st Intl. Workshop on Multimedia Analysis and Retrieval for Multimodal Interaction (part 2)

“Towards a Multimedia Knowledge-Based Agent with Social Competence and Human Interaction Capabilities,” Leo Wanner (ICREA-UPF), Elisabeth André (University of Augsburg), Josep Blat (UPF), Stamatia Dasiopoulou (UPF), Mónica Domínguez (UPF), Eleni Kamateri (CERTH), Ioannis Kompatsiaris (CERTH), Lori Lamel (Vocapia), Florian Lingensfelder (University of Augsburg), Gerard Llorach (UPF), Wolfgang Minker (UULM), Louisa Pragst (UULM), Andries Stam (Almende), Ludo Stellingwerff (Almende), Federico Sukno (UPF), Bianca Vieru (Vocapia), Stefanos Vrochidis (CERTH)

“Action recognition using Convolutional Restricted Boltzmann Machines,” Petar Palasek (QMUL), Ioannis Patras (QMUL)

“A Probabilistic Ranking Model for Audio Stream Retrieval,” Younghoon Jung, Jaehwan Koo, Karl Stratos and Luca Carloni

12:40PM – 02:00PM LUNCH

02:00PM – 03:40PM TUTORIAL 1: "Situation Recognition from Multimodal Data", Vivek Singh, Siripen Pongpaichet, Ramesh Jain (part 1)

TUTORIAL 2: "On the “Face of Things”, Ranran Feng and Balakrishnan Prabhakaran (part 1)

03:40PM – 04:00PM COFFEE BREAK

04:00PM – 05:40PM TUTORIAL 1: "Situation Recognition from Multimodal Data", Vivek Singh, Siripen Pongpaichet, Ramesh Jain (part 2)

TUTORIAL 2: "On the “Face of Things”, Ranran Feng and Balakrishnan Prabhakaran (part 2)

05:40PM – 06:00PM TRANSITION TO RECEPTION

06:00PM – 07:30PM RECEPTION

Tuesday June 7, 2016

08:20AM – 08:40AM REGISTRATION

08:40AM – 09:00AM WELCOME

09:00AM – 10:00AM **KEYNOTE TALK: Prof. Shih-Fu Chang, Columbia University**

10:00AM – 10:20AM COFFEE BREAK

10:20AM – 12:00PM **ORAL SESSION: Deep Learning and Applications**

“Matching User Photos to Online Products with Robust Deep Features,” Xi Wang (Fudan University); Zhenfeng Sun (Fudan University); Wenqiang Zhang (Fudan University); Yu-Gang Jiang (Fudan University)

“Video Emotion Recognition with Transferred Deep Feature Encodings,” Baohan Xu (Fudan university); Yanwei Fu (Disney Research Pittsburgh); Yu-Gang Jiang (Fudan university); Boyang Li (Disney Research Pittsburgh); Leonid Sigal (Disney Research Pittsburgh)

“Scene-driven Retrieval in Edited Videos using Aesthetic and Semantic Deep Features,” Lorenzo Baraldi (University of Modena and Reggio Emilia); Costantino Grana (University of Modena and Reggio Emilia); Rita Cucchiara (University of Modena and Reggio Emilia)

“ACD: Action Concept Discovery from Image-Sentence Corpora,” Jiyang Gao (University of Southern California); Chen Sun (University of Southern California); Ram Nevatia (University of Southern California)

12:00PM – 01:00PM LUNCH

01:00PM – 02:40PM **ORAL SESSION: Image and Video Content Analysis**

“GPU-FV: Realtime Fisher Vector and Its Applications in Video Monitoring,” Wenjing Ma (Institute of Software, Chinese Academy of Sciences); Liangliang Cao (Yahoo! Labs); Lei Yu (Institute of Software, Chinese Academy of Sciences); Guoping Long (Institute of Software, Chinese Academy of Sciences); Yucheng Li (Institute of Software, Chinese Academy of Sciences)

“Mouse Activity as an Indicator of Interestingness in Video,” Gloria Zen (University of Trento); Yale Song (Yahoo! Labs); Paloma de Juan (Yahoo! Labs); Alejandro Jaimes (AiCure)

“Automatic Identification of Sports Video Highlights using Viewer Interest Features,” Prithwi Raj Chakraborty (Queensland University of Technology); Ligang Zhang (Xi'an University of Technology); Dian Tjondronegoro (Queensland University of Technology); Vinod Chandran (Queensland University of Technology)

“Diverse Concept-Level Features for Multi-Object Classification,” Youssef Tamaazousti (CEA List); Hervé Le Borgne (CEA LIST); Céline Hudelot (Centrale-Supélec)

02:40PM – 03:00PM COFFEE BREAK

03:00PM – 04:40PM **ORAL SESSION: Brave New Ideas**

“Personalized Privacy-aware Image Classification,” Eleftherios Spyromitros-Xioufis (CERTH - ITI); Symeon Papadopoulos (Information Technologies Institute); Adrian Popescu (CEA LIST); Yiannis Kompatsiaris (CERTH - ITI)

“The science and detection of tilting,” Xingjie Wei (University of Cambridge); Jussi Palomaki (Newcastle University); Jeff Yan (University of Lancaster)

“Using Photos as Micro-Reports of Events,” Siripen Pongpaichet (University of California, Irvine); Mengfan Tang (University of California, Irvine); Laleh Jalali (University of California, Irvine); Ramesh Jain (University of California, Irvine)

“Searching for Audio by Sketching Mental Images of Sound – A Brave New Idea for Audio Retrieval in Creative Music Production,” Peter Knees (Johannes Kepler University); Kristina Andersen (STEIM)

04:40PM – 05:00PM COFFEE BREAK

05:00PM – 06:40PM **ORAL SESSION: Multimedia Datasets and Applications**

“The LFM-1b Dataset for Music Retrieval and Recommendation,” Markus Schedl (Johannes Kepler University Linz)

“Foreground Object Sensing for Saliency Detection,” Hengliang Zhu (Shanghai Jiao Tong University); Jiao Jiang (Shanghai Jiao Tong University); Xiao Lin (Shanghai Normal University); Yangyang Hao (Shanghai Jiao Tong University); Lizhuang Ma (Shanghai Jiao Tong University)

“Constrained Local Enhancement of Semantic Features by Content-Based Sparsity,” Youssef Tamaazousti (CEA List); Hervé Le Borgne (CEA List); Adrian Popescu (CEA List)

“Event Detection with Zero Example: Select the Right and Suppress the Wrong Concepts,” Yi-Jie Lu (City University of Hong Kong); Hao Zhang (City University of Hong Kong); Maaïke de Boer (TNO/Radboud University Nijmegen); Chong-Wah Ngo (City University of Hong Kong)

Wednesday June 8, 2016

08:20AM – 08:40AM REGISTRATION

08:40AM – 10:20AM **ORAL SESSION: Best Paper Candidates**

“Homemade TS-Net for Automatic Face Recognition,” Shilun Lin (Beijing University of Posts and Telecommunications); Zhicheng Zhao (Beijing University of Posts and Telecommunications); Fei Su (Beijing University of Posts and Telecommunications)

“Pooling Objects for Recognizing Scenes without Examples,” Svetlana Kordumova (University of Amsterdam); Thomas Mensink (University of Amsterdam); Cees G.M. Snoek (University of Amsterdam)

“Multilingual Visual Sentiment Concept Matching,” Nikolaos Pappas (Idiap Research Institute); Miriam Redi (Yahoo! Labs London); Mercan Topkara (JW Player); Brendan Jou (Columbia University); Hongyi Liu (Columbia University); Tao Chen (Columbia University); Shih-Fu Chang (Columbia University)

“Action Recognition by Learning Deep Multi-Granular,” Spatio-Temporal Video Representation Qing Li (University of Science and Technology of China); Zhaofan Qiu (University of Science and Technology of China); Ting Yao (Microsoft Research); Tao Mei (Microsoft Research); Yong Rui (Microsoft Research); Jiebo Luo (University of Rochester)

10:20AM – 10:40AM COFFEE BREAK

10:40AM – 12:00PM **SPECIAL SESSION: Learning with Semantic Information for Large Scale Multimedia Understanding**

“A Short Survey of Recent Advances in Graph Matching,” Junchi Yan (East China Normal University); Xucheng Yin (University of Science and Technology Beijing); Weiyao Lin (Shanghai Jiao Tong University); Cheng Deng (Xidian University); Hongyuan Zha (Georgia Institute of Technology); Xiaokang Yang (Shanghai Jiao Tong University)

“The ImageNet Shuffle: Reorganized Pre-training for Video Event Detection,” Pascal Mettes (University of Amsterdam); Dennis Koelma (University of Amsterdam); Cees Snoek (University of Amsterdam)

“Learning for Traffic State Estimation on Large Scale of Incomplete Data,” Yiyang Yao (Information & Communication Branch, State Grid Zhejiang Company); Yingjie Xia (Zhejiang University); Zhenyu Shan (Hangzhou Normal University); Zhengguang Liu (National University of Singapore)

12:00PM – 01:00PM LUNCH

01:00PM – 02:40PM **ORAL SESSION: Image and Video Search**

“Diverse Yet Efficient Retrieval using Locality Sensitive Hashing,” Vidyadhar Rao (IIIT Hyderabad); Prateek Jain (Microsoft Research); C V Jawahar (IIIT Hyderabad)

“Correlation Autoencoder Hashing for Supervised Cross-Modal Search,” Yue Cao (Tsinghua University); Mingsheng Long (Tsinghua University); Jianmin Wang (Tsinghua University); Han Zhu (Tsinghua University)

“Regional Subspace Projection Coding for Image Retrieval,” Mingmin Zhen (Peking University); Wenmin Wang (Peking University); Ronggang Wang (Peking University)

“Scaling Group Testing Similarity Search,” Ahmet Iscen (INRIA); Laurent Amsaleg (CNRS-IRISA); Teddy Furon (INRIA)

02:40PM – 03:00PM COFFEE BREAK

03:00PM – 06:00PM **POSTER SESSION**

“Vinereactor: Crowdsourced Spontaneous Facial Expression Data,” Edward Kim (Villanova University); Shruthika Vangala (Villanova University)

“Mirroring Facial Expressions: Evidence from Visual Analysis of Dyadic Interactions,” Yuchi Huang (Educational Testing Service); Saad Khan (Educational Testing Service)

“Sequential Correspondence Hierarchical Dirichlet Processes for Video Data Analysis,” Jianfei Xue (Kobe University); Koji Eguchi (Kobe University)

“A Computational Approach to Finding Facial Patterns of a Babyface,” Zi-Yi Ke (National Taiwan Normal University); Mei-Chen Yeh (National Taiwan Normal University)

“Video Description Generation Using Audio and Visual Cues,” Qin Jin (Renmin University of China); Junwei Liang (Carnegie Mellon University)

“Contextual Media Retrieval Using Natural Language Queries,” Sreyasi Nag Chowdhury (Max Planck Institute for Informatics); Mateusz Malinowski (Max Planck Institute for Informatics); Andreas Bulling (Max Planck Institute for Informatics); Mario Fritz (Max Planck Institute for Informatics)

“Learning Music Embedding with Metadata for Context Aware Recommendation,” Dongjing Wang (ZheJiang University); Shuiguang Deng

(ZheJiang University); Xin Zhang (Shandong University); Guandong Xu (University of Technology Sydney)

“Region Trajectories for Video Semantic Concept Detection,” Yuancheng Ye (The Graduate Center, CUNY); Xuejian Rong (The City College, CUNY); Xiaodong Yang (NVIDIA Research); Yingli Tian (The City College, CUNY)

“Audiovisual Summarization of Lectures and Meetings Using a Segment Similarity Graph,” Chidansh Bhatt (FX Palo Alto Laboratory, Inc.); Andrei Popescu-Belis (Idiap Research Institute); Matthew Cooper (FX Palo Alto Laboratory, Inc.)

“Recurrent Support Vector Machines for Audio-Based Multimedia Event Detection,” Yun Wang (Carnegie Mellon University); Florian Metze (Carnegie Mellon University)

“Adding Chinese Captions to Images,” Xirong Li (Renmin University of China); Weiyu Lan (Renmin University of China); Jianfeng Dong (Zhejiang University); Hailong Liu (Tencent)

“Emotion Recognition from EEG Signals Enhanced by User's Profile,” Tanfang Chen (USTC); Shangfei Wang (USTC); Zhen Gao (USTC); Chongliang Wu (USTC)

“Multimodal Deep Convolutional Neural Network for Audio-Visual Emotion Recognition,” Zhang Shiqing (Taizhou University); Shiliang Zhang (Peking University); Tiejun Huang (Peking University); Wen Gao (Peking University)

“Large-Scale E-Commerce Image Retrieval with Top-Weighted Convolutional Neural Networks,” Shichao Zhao (Tianjin University); Youjiang Xu (Tianjin University); Yahong Han (Tianjin University)

“Web Video Popularity Prediction using Sentiment and Content Visual Features,” Giulia Fontanini (Università di Firenze); Marco Bertini (Università degli Studi di Firenze); Alberto Del Bimbo (Università degli Studi di Firenze)

“Accurate Aggregation of Local Features by using K-sparse Autoencoder for 3D Model Retrieval,” Takahiko Furuya (University of Yamanashi); Ryutarou Ohbuchi (University of Yamanashi)

“Image Annotation using Multi-scale Hypergraph Heat Diffusion Framework,” Venkatesh N Murthy (University of Massachusetts, Amherst); Avinash Sharma (International Institute of Information Technology, Hyderabad); Visesh Chari (International Institute of Information Technology, Hyderabad); R. Manmatha (University of Massachusetts, Amherst)

“Discriminant Cross-modal Hashing,” Xing Xu (University of Electronic Science and Technology of China); Fumin Shen (University of Electronic Science and Technology of China); Yang Yang (University of Electronic Science and Technology of China); Heng Tao Shen (The University of Queensland)

“CNN-based Style Vector for Style Image Retrieval,” Shin Matsuo (Univ. of Electro-Communications); Keiji Yanai (Univ. of Electro-Communications)

“MVC: A Dataset for View-Invariant Clothing Retrieval and Attribute Prediction,” Kuan-Hsien Liu (Academia Sinica); Ting-Yen Chen (Academia Sinica); Chu-Song Chen (Academia Sinica)

“A Quality Adaptive Multimodal Affect Recognition System for User-Centric Multimedia Indexing,” Rishabh Gupta (INRS-EMT, University of Quebec); Mojtaba Khomami Abadi (SensAura Tech, University of Trento); Fabio Morreale (University of Trento); Jesus Cardenes Cabre (SensAura Tech); Tiago H. Falk (INRS-EMT, University of Quebec); Nicu Sebe (University of Trento)

“Rank Diffusion for Context-Based Image Retrieval,” Daniel Carlos Guimarães Pedronette (State University of São Paulo (UNESP)); Ricardo Da Silva Torres (University of Campinas (UNICAMP))

“Bags of Local Convolutional Features for Scalable Instance Search,” Eva Mohedano (Insight Center for Data Analytics); Amaia Salvador (Universitat Politècnica de Catalunya); Kevin McGuinness (Insight Center for Data Analytics); Xavier Giro-I-Nieto (Universitat Politècnica de Catalunya); Noel O'Connor (Insight Center for Data Analytics); Ferran Marques (Universitat Politècnica de Catalunya)

“Interactive Multimodal Learning on 100 Million Images,” Jan Zahálka (University of Amsterdam); Stevan Rudinac (University of Amsterdam); Björn Þór Jónsson (Reykjavik University); Dennis C. Koelma (University of Amsterdam); Marcel Worring (University of Amsterdam)

“Combining Holistic and Part-based Deep Representations for Computational Painting Categorization,” Rao Muhammad Anwer (aalto university); Fahad Shahbaz Khan (Linköping University); Joost van de Weijer (CVC Barcelona); Jorma Laaksonen (aalto university)

“Bidirectional Joint Representation Learning with Symmetrical Deep Neural Networks for Multimodal and Crossmodal Applications,” Vedran Vukotic (INRIA/IRISA Rennes & INSA Rennes); Christian Raymond (INRIA/IRISA Rennes & INSA Rennes); Guillaume Gravier (INRIA/IRISA Rennes & CNRS)

“SSD Technology Enables Dynamic Maintenance of Persistent High-Dimensional Indexes,” Bjorn Thor Jonsson (Reykjavik University); Laurent Amsaleg (CNRS-IRISA); Herwig Lejsek (Videntifier Technologies)

“Item-Based Video Recommendation: an Hybrid Approach considering Human Factors,” Andrea Ferracani (MICC - Media Integration and Communication Center); Daniele Pezzatini (Media Integration and Communication Center University of Firenze); Marco Bertini (Universita' degli Studi di Firenze); Alberto Del Bimbo (Universita degli Studi di Firenze)

“Human’s Scene Sketch Understanding,” Yuxiang Ye (Texas State University); Yijuan Lu (Texas State University); Hao Jiang (Boston College)

“Retrieval of Multimedia objects by Fusing Multiple Modalities,” Ilias Gialampoukidis (Information Technologies Institute, CERTH); Anastasia Moutzidou (Information Technologies Institute Centre of Research &

Technology - Hellas); Theodora Tsirikla (Information Technologies Institute, CERTH); Stefanos Vrochidis (Information Technologies Institute); Yiannis Kompatsiaris (CERTH - ITI)

“Incremental Learning for Fine-Grained Image Recognition,” Liangliang Cao (Yahoo Labs); Jenhao Hsiao (Yahoo Labs); Paloma de Juan (Yahoo Labs); Yuncheng Li (University of Rochester); Bart Thomee (Yahoo Labs)

“Spatially Localized Visual Dictionary Learning,” Valentin Leveau (French National Institute of Audiovisual Contents); Alexis Joly (INRIA); Olivier Buisson (INA); Patrick Valduriez (INRIA)

“Semantic Binary Codes,” Sravanthi Bondugula (University of Maryland, College Park); Larry Davis (University of Maryland, College Park)

“On the Effects of Spam Filtering and Incremental Learning for Web-Supervised Visual Concept Classification,” Matthias Springstein (TIB Hannover); Ralph Ewerth (TIB, Leibniz Universität Hannover)

“Semi-supervised Identification of Rarely Appearing Persons in Video by Correcting Weak Labels,” Eric Müller (Ernst-Abbe-Hochschule Jena, TIB Hannover); Christian Otto (Ernst-Abbe-Hochschule Jena); Ralph Ewerth (TIB Hannover, Leibniz Universität Hannover)

“Introducing Concept And Syntax Transition Networks for Image Captioning,” Philipp Blandfort (University of Kaiserslautern); Tushar Karayil (University of Kaiserslautern); Damian Borth (German Institute of Artificial Intelligence(DFKI), Kaiserslautern)

03:00PM – 06:00PM

DEMO SESSION

“SentiCart: Cartography and Geo-contextualization for Multilingual Visual Sentiment,” Brendan Jou (Columbia University); Margaret Yuying Qian (Columbia University); Shih-Fu Chang (Columbia University)

“Personalized Retrieval and Browsing of Classical Music and Supporting Multimedia Material,” Marko Tkalcic (Free University of Bolzano); Markus Schedl (Johannes Kepler University); Cynthia Liem (Delft University of Technology); Mark Melenhorst (TU Delft)

“The Social Picture,” Sebastiano Battiato (University of Catania); Giovanni Maria Farinella (University of Catania); Filippo Luigi Maria Milotta (University of Catania); Alessandro Ortis (University of Catania); Luca Adesso (Telecom Italia); Antonino Casella (Telecom Italia); Valeria D'Amico (Telecom Italia); Giovanni Torrisi (Telecom Italia)

“Watching What and How Politicians Discuss Various Topics - A Large-Scale Video Analytics UI,” Emily Song (Columbia University); Joseph Ellis (Columbia University); Hongzhi Li (Columbia University); Shih-Fu Chang (Columbia University)

“A Multimedia Big Data Retrieval Framework to Detect Dyslexia among Children,” Mohamed Abdur Rahman (Umm Al Qura University); Elham Hassanain (Umm Al-Qura University); Salah Hassanain (Al Safwa Hospital)

“Object-aware Deep Network for Commodity Image Retrieval,” Zhiwei Fang (Institute of Automation, Chinese Academy of Sciences); Jin Liu (Institute of Automation, Chinese Academy of Sciences); Yuhang Wang (Institute of Automation, Chinese Academy of Sciences); Yong Li (Institute of Automation, Chinese Academy of Sciences); Jinhui Tang (Nanjing University of Science and Technology); Hanqing Lu (Institute of Automation, Chinese Academy of Science); Hang Song (Institute of Automation, Chinese Academy of Sciences)

“An Automated End-To-End Pipeline for Fine-Grained Video Annotation using Deep Neural Networks,” Baptist Vandersmissen (Ghent University - iMinds - Data Science Lab); Lucas Sterckx (Ghent University - iMinds - IBCN); Thomas Demeester (Ghent University - iMinds - IBCN); Azarakhsh Jalalvand (Ghent University - iMinds - Data Science Lab); Wesley De Neve (Ghent University - iMinds - Data Science Lab); Rik Van de Walle (Ghent University - iMinds - Data Science Lab);

“Serendipity-driven Celebrity Video Hyperlinking,” Shu-Jun Yang (City University of Hong Kong); Lei Pang (City University of Hong Kong); Chong-Wah Ngo (City University of Hong Kong); Benoit Huet (EURECOM)

“Complura: Exploring and Leveraging a Large-scale Multilingual Visual Sentiment Ontology,” Hongyi Liu (Columbia University); Brendan Jou (Columbia University); Tao Chen (Columbia University); Mercan Topkara (JW Player); Nikolaos Pappas (Idiap Research Institute and EPFL); Miriam Redi (Yahoo! Labs); Shih-Fu Chang (Columbia University)

“Multimodal Event Detection and Summarization in Large Scale Image Collections,” Manos Schinas (CERTH-ITI); Symeon Papadopoulos (CERTH-ITI); Georgios Petkos (CERTH-ITI); Yiannis Kompatsiaris (CERTH-ITI); Pericles Mitkas (Aristotle University of Thessaloniki)

04:00PM – 05:00PM

ORAL SESSION: Student Symposium

“Multimodal Analysis of User-Generated Content in Support of Social Media Applications,” Rajiv Shah (National University of Singapore)

“Multimodal Visual Pattern Mining with Convolutional Neural Network,” Hongzhi Li (Columbia University)

“Facial Landmark Detection and Tracking for Facial Behavior Analysis,” Yue Wu (Rensselaer Polytechnic Institute)

Thursday June 9, 2016

08:20AM – 08:40AM REGISTRATION

08:40AM – 10:00AM **INVITED INDUSTRY TALKS: Video and Social Media**

Tomas Izo (Google)

Soumith Chintala (Facebook)

10:00AM – 10:20AM COFFEE BREAK

10:20AM – 12:00PM **INVITED INDUSTRY TALKS: Visual Recognition API and Services**

Matthew Zeiler (Clarifai)

Jin Li (Microsoft)

Rahul Singhal (IBM)

12:00PM – 01:00PM LUNCH

01:00PM – 02:00PM **INDUSTRY PANEL**

Tomas Izo (Google), Soumith Chintala (Facebook), Matthew Zeiler (Clarifai), Jin Li (Microsoft), Rahul Singhal (IBM)

02:00PM – 02:20PM CLOSE

02:20PM – 07:00PM ACM Multimedia TPC WORKSHOP