22nd ACM International Conference on Multimedia

ACM Multimedia 2014

November 3-7
Orlando, Florida
Conference Organization

**General Chairs**
Kien Hua, University of Central Florida, USA
Yong Rui, Microsoft Research, China
Ralf Steinmetz, Technische Universität Darmstadt, Germany

**Technical Program Committee Chairs**
Alan Hanjalic, Delft University of Technology, Netherlands
Apostol (Paul) Natsev, Google, USA
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Rainer Lienhart, Augsburg University, Germany
Balakrishnan Prabhakaran, University of Texas at Dallas, USA

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Cha Zhang, Microsoft Research, USA

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Stefan Göbel, Technische Universität Darmstadt, Germany
Carsten Griwodz, Simula Research Laboratory, Norway

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Ming Li, California State University, USA

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Pablo Cesar, CWI, Netherlands

**Industrial Exhibit Chairs**
Minoru Etoh (Mick), NTT DoCoMo, Japan
Dulce Ponceleón, IBM Research, USA

**Interactive Art Exhibit Chairs**
Andrea Cavallaro, Queen Mary University of London, UK
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Doctoral Symposium Chairs
Laszlo Bőszörményi, University of Klagenfurt, Austria
Christian Breiteneder, Technical University of Vienna, Austria
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Hermann Hellwagner, University of Klagenfurt, Austria
Wei Tsang Ooi, National University of Singapore, Singapore

Panel Chairs
Wolfgang Klas, University of Vienna, Austria
Chang Wen Chen, State University of New York at Buffalo, USA

Industrial Panel Chairs
Borko Furth, Florida Atlantic University, USA
Ivica Rimac, Bell Labs / Alcatel-Lucent, USA

Open Source Competition Chairs
Andreas Girgensohn, FX Palo Alto Laboratory, Inc., USA
Lynn Wilcox, FX Palo Alto Laboratory, Inc., USA

Technical Program Area Chairs

Multi-modal Analysis and Description
Alex Hauptmann, Carnegie-Mellon University, USA
Benoit Huet, Eurecom, France
Xuelong Li, Chinese Academy of Sciences, China
Ansgar Scherp, Kiel University and Leibniz Information Center for Economics, Germany
Mubarak Shah, University of Central Florida, USA
Cees Snoek, University of Amsterdam, Netherlands
Rong Yan, Square, USA

Big and Broad Multimedia
Nuria Oliver, Telefonica, Spain
Vivek Singh, MIT, USA
Alan Smeaton, Dublin City University, Ireland

Affective and Socially-Aware Multimedia
Hatice Gunes, Queen Mary University of London, UK
Hayley Hung, Delft University of Technology, Netherlands
Bjorn Schuller, TU Munich, Germany

Social Media and Presence
Peng Cui, Tsinghua University, China
Lexing Xie, Australian National University

Music Audio and Speech
Xavier Anguera, Telefonica, Spain
Cynthia Liem, Delft University of Technology, Netherlands
Multimedia HCI & QoE
Marc Cavazza, Teesside University, UK
Touradj Ebrahimi, EPFL, Switzerland

Multimedia Search and Recommendation
Xian-Sheng Hua, Microsoft Research, USA
Qi Tian, University of Texas, San Antonio, USA
Shuicheng Yan, National University of Singapore, Singapore
Hector Yee, Google, USA

Crowdsourcing and Multimedia
Kuan-Ta Chen, Academia Sinica, Taiwan
Martha Larson, Delft University of Technology, Netherlands

Deep Learning for Multimedia
Marc’Aurelio Ranzato, Facebook, USA
Kau Yu, Baidu, China
George Toderici, Google, USA

Multimedia Security, Piracy and Forensics
Gerald Friedland, ICSI Berkeley, USA
Mohan Kankanhalli, National University of Singapore, Singapore

Media Transport and Delivery
Carsten Griwodz, University of Oslo, Norway
Baocun Li, University of Toronto, Canada

Multimedia Systems and Middleware
Jiangchuan Liu, Simon Fraser University, Canada
Roger Zimmermann, National University of Singapore, Singapore

Multimedia Art, Entertainment and Culture
Teresa Chambel, University of Lisbon, Portugal
Frank Nack, University of Amsterdam, Netherlands

Multimedia and Society
Jenny Benois-Pineau, University of Bordeaux, France

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Since the launch of Bing (www.bing.com) in June 2009, we have seen Bing web search market share in the US more than doubled and Bing image search query share quadrupled. In this talk, I will share our experience building Bing image search as the fastest growing image search engine, and discuss the challenges and opportunities in image search. Specifically, I will talk about how we have significantly improved image search quality, and built differentiated image search user experience using NLP, entity, big data, machine learning and computer vision technologies. By leveraging big data from billions of search queries, billions of images on the web and from the social networks, and billions of user clicks, we have designed massive machine learning systems to continuously improve image search quality. With the focus on natural language and entity understanding, for instance, we have improved Bing’s ability to understand the user intent beyond queries and keywords. I will demonstrate with many examples how Bing has delivered a superior image search user experience, quantitatively, qualitatively and aesthetically, by utilizing computer vision techniques.
Bio: Former managing director of Microsoft Research Asia, Dr. Harry Shum, after leading Bing product development for several years as a Corporate Vice President, has taken the new role of Microsoft Executive Vice President, Technology and Research.

Dr. Shum is an Institute of Electrical and Electronics Engineers (IEEE) Fellow and an Association for Computing Machinery (ACM) Fellow. He served on the editorial board of the International Journal of Computer Vision, and was a Program Chair of the International Conference of Computer Vision (ICCV) 2007. Dr. Shum has published more than 100 papers in computer vision, computer graphics, pattern recognition, statistical learning, and robotics. He holds more than 50 U.S. patents.

Dr. Shum joined Microsoft Research in 1996 where he worked in Redmond, WA as a researcher on computer vision and computer graphics. In 1999, Shum moved to Beijing to help start Microsoft Research China (later renamed Microsoft Research Asia). His tenure there began as a research manager and subsequently moved up to Assistant Managing Director, Managing Director of Microsoft Research Asia, Distinguished Engineer, and Corporate Vice President. In 2007, Shum became Microsoft Corporate Vice President responsible for Bing product development. In 2013, he took on the responsibilities of Microsoft Executive Vice President including oversight of Microsoft Research.

Dr. Shum received a doctorate in robotics from the School of Computer Science at Carnegie Mellon University. In his spare time, he enjoys playing basketball, rooting for the Pittsburgh Steelers, and spending quality time with his family.
Over a decade ago, I suggested that computers will need the skills of emotional intelligence in order to interact with regular people in ways that they perceive as intelligent. Our lab embarked on this journey of “affective computing” with a focus on first enabling computers to better understand and communicate human emotion. Our main tools have been wearable sensors (several which we created), video, and audio, coupled with signal processing, machine learning and pattern analysis of multimodal human data. Along the way we encountered several surprises. This talk will highlight some of the challenges we have faced, some accomplishments, and the most surprising and rewarding findings. Our findings reveal the power of the human emotion system not only in intelligence, in social interaction, and in everyday media consumption, but also in autism, epilepsy, and sleep memory formation.
Bio: Professor Rosalind W. Picard, Sc.D., FIEEE, is founder and director of the Affective Computing Research Group at the Massachusetts Institute of Technology (MIT) Media Lab where she also leads the Media Lab’s Technology for Health initiative. Picard has co-founded two businesses, Empatica, Inc. creating wearable sensors and analytics to improve health, and Affectiva, Inc. delivering technology to help measure and communicate emotion using video.

Picard holds a bachelor’s degree in electrical engineering with highest honors from the Georgia Institute of Technology, and masters and doctorate degrees, both in electrical engineering and computer science, from MIT. She started her career as a member of the technical staff at AT&T Bell Laboratories, where she designed VLSI chips for digital signal processing and developed algorithms for image compression. In 1991 she joined the MIT Media Lab Faculty where she rose to the level of full professor. Picard became known internationally for her work designing novel analytical models for content-based retrieval of images and for work pioneering methods of automated search and annotation in digital video, including the Photobook system. In 1996 she wrote and published the book Affective Computing, which envisioned a new area of research and today is credited as starting a new field by that name. Today that field has its own journal, international conference, and professional society. Picard also served as a founding member of the IEEE Technical Committee on Wearable Information Systems in 1998, helping launch the field of wearable computing.

Picard has authored or co-authored over two hundred scientific articles and chapters spanning computer vision, pattern recognition, machine learning, human-computer interaction, wearable sensors and affective computing. She is a recipient of several best paper prizes, including work on machine learning with multiple models (with Minka, 1998), a best theory paper prize for affect in human learning (with Kort and Reilly, 2001) a best paper prize for work with facial expressions (with McDuff, Kaliouby and Demirdjian, 2013) and a best UBICOMP 2013 paper for an automated conversation coach (with Hoque et al, 2013). Her paper (with Healey, 2005) on how to measure driver stress won best paper of the decade.

Picard is an active inventor with patents including wearable and non-contact sensors, algorithms, and systems for sensing, recognizing, and responding respectfully to human affective information. Her inventions have been applied in autism, epilepsy, sleep, stress, autonomic nervous system disorders, human and machine learning, health behavior change, market research, customer service, and humancomputer interaction. In 2005 she was named a Fellow of the IEEE for contributions to image and video analysis and affective computing. Picard has been honored with dozens of distinguished and named lectureships and other international awards, and has given over 100 keynote talks.
Quality Provisioning concept has been with us for at least 25 years and it started with the claim to be one of the necessary building blocks for multimedia content distribution and delivery. A lot of research has been done on Quality of Service and Quality of Experience by the ACM Special Interest Group on Multimedia (SIGMM) community and other research communities. So where are we with respect to broader impact and deployment of Quality Provisioning in multimedia networks, systems and applications? Did it become a necessary building block for multimedia content delivery or not? During the talk I will go back and to the future, discussing my journey regarding quality topics ranging from Quality of Service (QoS) in multimedia networks and end systems, to Experiential Quality (QoE) for current and future multimedia applications. I will reflect on successes and failures of Quality Provisioning mechanisms, policies, algorithms, protocols and management frameworks in multimedia networks, systems and applications as they evolved up to the point of an almost ubiquitous presence of multimedia services and the on-going discussions about network neutrality and multimedia service provisioning. We will also argue that the future for Quality Provisioning is bright with numerous exciting service problems since users expect at this point nothing but high quality multimedia content delivery anytime, anywhere, any content, and on any device.
Bio: The 2014 winner of the prestigious ACM Special Interest Group on Multimedia (SIGMM) award for Outstanding Technical Contributions to Multimedia Computing, Communications and Applications is CS Professor Klara Nahrstedt. Nahrstedt’s accomplishments include her pioneering and extraordinary contributions in quality of service for multimedia systems and networking and her visionary leadership of the computing community.


Klara Nahrstedt received her BA in mathematics from Humboldt University, Berlin, in 1984, and M.Sc. degree in numerical analysis from the same university in 1985. She was a research scientist in the Institute for Informatik in Berlin until 1990. In 1995 she received her PhD from the University of Pennsylvania in the Department of Computer and Information Science. She is the ACM Fellow, IEEE Fellow, and the Member of Leopoldina German National Academy of Sciences.
Art Exhibit: Tuesday, Wednesday, Thursday

Location: Hibiscus/Iris/Poinsettia/Quince/Kahili/Lily
Tuesday - Thursday, 10:30-5:30
Chairs: Cheryl Cabrera, University of Central Florida, USA
Andrea Cavallaro, Queen Mary University of London, UK

Audiovisual Resynthesis in an Augmented Reality
Parag Kumar Mmital

Sound-Light Giblet
Charles Roberts

Gone: An Interactive Experience for Two People
Michael Riegler, Mathias Lux, Christian Zellot, Lukas Knoch, Horst Schnattler, Sabrina Napetschnig, Julian Kogler, Claus Degendorfer, Norbert Spot, Manuel Zoderer

Circles and Sounds
Sarah Linebaugh

Qi Visualizer - An Interactive Pulse Spectrogram Visualization using Mobile Participatory Biometrics
Yuan-Yi Fan

Stoicheia
F. Myles Sciotto, Jean-Michel Crettaz

States of Diffusion for n+1 Devices
Lonce Wyse
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<tr>
<th>Time</th>
<th>Azalea &amp; Begonia</th>
<th>Fuchsia &amp; Gardenia</th>
<th>Hibiscus &amp; Iris</th>
<th>Kahili &amp; Lily</th>
<th>Poinsettia &amp; Quince</th>
<th>Camellia &amp; Dogwood</th>
<th>Palm 2, Palm 3, Palm 4, &amp; Palm 5</th>
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<tr>
<td>08:30-10:00</td>
<td>Learning Knowledge Bases for Text and Multimedia</td>
<td>Immersive 3D Communication</td>
<td>Social Multimedia Computing</td>
<td>Emerging Topics on Personalized and Localized Multimedia Information Systems</td>
<td>An Introduction to Arts and Digital Culture inside Multimedia</td>
<td>SIGMM Retreat (by invitation)</td>
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<td>10:00-10:30</td>
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<tr>
<td>10:30-12:00</td>
<td>Learning Knowledge Bases for Text and Multimedia</td>
<td>Immersive 3D Communication</td>
<td>Social Multimedia Computing</td>
<td>Emerging Topics on Personalized and Localized Multimedia Information Systems</td>
<td>An Introduction to Arts and Digital Culture inside Multimedia</td>
<td>Covington Mill Restaurant</td>
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<td>12:00-02:00</td>
<td>Lunch Break</td>
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<td>02:00-03:30</td>
<td>Video Hyperlinking</td>
<td>Immersive 3D Communication</td>
<td>Social Multimedia Computing</td>
<td>Emerging Topics on Personalized and Localized Multimedia Information Systems</td>
<td>Over-the-Top Content Delivery: State of the Art and Challenges Ahead</td>
<td>SIGMM Retreat (by invitation)</td>
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<td>03:30-04:00</td>
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<td>04:00-05:30</td>
<td>Video Hyperlinking</td>
<td>Immersive 3D Communication</td>
<td>Social Multimedia Computing</td>
<td>Emerging Topics on Personalized and Localized Multimedia Information Systems</td>
<td>Over-the-Top Content Delivery: State of the Art and Challenges Ahead</td>
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<td>Hibiscus, Iris, Poinsettia, Quince, Kahili &amp; Lily</td>
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<td>Presentation 1: Harry Shum Bing, the Fastest Growing Image Search Engine</td>
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<td>12:00-02:00</td>
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<td>Lunch Break (“WOMEN IN SIGMM” Lunch (Covington Mill Restaurant, by invitation))</td>
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<tr>
<td>02:00-03:30</td>
<td>Posters 1</td>
<td>Industrial</td>
<td>Demo 1</td>
<td>Research Panel 1 - Looking for Emotional and Social Signals in Multimedia: Where Art Thou?</td>
<td>Oral 1 Multimedia Art and Entertainment</td>
<td>Oral 2 Action, Activity, and Event Recognition</td>
<td>Open Source Software Competition</td>
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<td>04:00-05:30</td>
<td>Posters 1</td>
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<td>Oral 3 Music, Speech, and Audio</td>
<td>Oral 4 Deep Learning for Multimedia</td>
<td>Open Source Software Competition</td>
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## Conference Day 2 - November 5, 2014

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<th>Time</th>
<th>Palm 1</th>
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<tr>
<td>08:30-10:00</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>SIGMM Award Presentation and Talks Technical Achievement Award, Rising Star Award, and Best Thesis Award</td>
<td>Break</td>
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<td>Edelweiss</td>
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<td>10:00-10:30</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>Break</td>
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<td>Art Exhibit</td>
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<tr>
<td>10:30-12:00</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>Grand Challenge Presentations</td>
<td>Break</td>
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<td>MMSJ Meeting</td>
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<td>12:00-12:30</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>Break</td>
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<td>Break</td>
<td>MultiMedia Magazine</td>
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<tr>
<td>02:00-03:30</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>Industry Panel Innovative Multimedia Technologies in Industrial Applications Oral 5 Multimedia HCI and QoE Oral 6 Multimedia Analysis and Mining Doctoral Symposium</td>
<td>Break</td>
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<td>Art Exhibit</td>
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<td>03:30-04:00</td>
<td>Posters 2 (Presentations)</td>
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<tr>
<td>04:00-05:30</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>Break</td>
<td>Oral 7 Multimedia Systems</td>
<td>Oral 8 Emotional and Social Signals in Multimedia Doctoral Symposium</td>
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<tr>
<td>6:30-10:00</td>
<td>Posters 2, Industrial Exhibit, Demo 2</td>
<td>Break</td>
<td>Oral 7 Multimedia Systems</td>
<td>Oral 8 Emotional and Social Signals in Multimedia Doctoral Symposium</td>
<td>Doctoral Symposium</td>
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14th Conference Day 2 - November 5, 2014

**SIGMM Award Presentation and Talks Technical Achievement Award, Rising Star Award, and Best Thesis Award**

**Grand Challenge Presentations**

**Lunch Break “Doctoral Symposium” Lunch (Covington Mill Restaurant, by invitation)**

**Doctoral Symposium**

**Banquet with TOMM NG Award Presentation**
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<th>Time</th>
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<tr>
<td>08:30-10:00</td>
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<td>Keynote Presentation 2: Rosalind Picard Affective Media and Wearables: Surprising Findings</td>
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<tr>
<td>10:00-10:30</td>
<td>Posters 3, (Preparation)</td>
<td>Industrial Exhibit, (Preparation)</td>
<td>Demo 3 (Preparation)</td>
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<td>Break</td>
<td>Art Exhibit (Preparation)</td>
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<td>10:30-12:00</td>
<td>Posters 3</td>
<td>Industrial Exhibit</td>
<td>Demo 3</td>
<td>“High-Risk-High-Return” Presentations</td>
<td>Oral 9 Multimedia Applications</td>
<td>JMM Meeting (by invitation)</td>
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<td>12:00-02:00</td>
<td>Lunch Break</td>
<td>SIGMM Business Meeting (open to all, lunch provided)</td>
<td>Lunch Break</td>
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<tr>
<td>02:00-03:30</td>
<td>Posters 3</td>
<td>Industrial Exhibit</td>
<td>Demo 3</td>
<td>Research Panel 2 The Future of Audio Multimedia</td>
<td>Oral 10 Privacy, Health, and Well-being</td>
<td>Exchange Meeting (by invitation)</td>
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<td>03:30-04:00</td>
<td>Posters 3 (Presentations)</td>
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<td>04:00-05:30</td>
<td>Posters 3</td>
<td>Industrial Exhibit</td>
<td>Demo 3</td>
<td>Oral 12 Social Media and Crowd</td>
<td>Oral 13 Multimedia Recommendations</td>
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<td>05:30-06:00</td>
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<td>Closing Session</td>
<td>Closing Session Best Demo Awards</td>
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# Workshops - November 7, 2014

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<th>Fuchsia</th>
<th>Gardenia</th>
<th>Hibiscus</th>
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<tr>
<td>10:00-10:30</td>
<td>Break</td>
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Monday November 3: Tutorials

ACM Multimedia 2014 tutorials will address the state-of-the-art research and developments regarding all aspects of multimedia, and will be of interest to the entire multimedia community, from novices in the world of multimedia to the most seasoned researchers, from people working in academia to industry professionals.

Full day tutorials: 8:30am – 5:30pm

**Immersive 3-D Communication**
Presenters: Wanmin Wu, Cha Zhang
Location: Fuschia & Gardenia

**Social Multimedia Computing**
Presenters: Peng Cui, Lexing Xie, Jitao Sang, Changsheng Xu
Location: Hibiscus & Iris

**Emerging Topics on Personalized & Localized Multimedia Information Systems**
Presenters: Yi Yu, Kiyoharu Aizawa, Toshihiko Yamasaki, Roger Zimmerman
Location: Kahili & Lily

Half day tutorials: 8:30-12:00

**Learning Knowledge Bases for Text & Multimedia**
Presenters: Lexing Xie, Haixun Wang
Location: Azalea & Begonia

**An Introduction To Arts & Digital Culture Inside Multimedia**
Presenters: David A. Shamma, Daragh Byrne
Location: Poinsetta & Quince

Half day tutorials: 2:00pm – 5:30pm

**Over the Top Content Delivery: State of the Art & Challenges Ahead**
Presenters: Christian Timmerer, Ali C. Bergen
Location: Poinsetta & Quince

**Video Hyperlinking**
Presenters: Vasileios Mezaris, Benoit Huet
Location: Azalea & Begonia
Tuesday November 4: Conference Day 1

8:30am  Keynote: Harry Shum, Microsoft
         *Bing, the Fastest Growing Image Search Engine*
         Location: Palm

10:00 – 10:30  Break
             Setup for posters, demo, industrial exhibit in Palm 1
             Setup for art exhibit in Hibisicus/Iris/Poinsettia/Quince/Kahili/Lily

10:30 – 12:00  Best Paper Session
             Session Chair: Alan Hanjalic, Delft University of Technology, Netherlands
             Location: Palm 2-5
             *Cross-modal Retrieval with Correspondence Autoencoder*
             Fanxiang Feng, Xiaojie Wang, Ruifan Li

             VideoStory: A New Multimedia Embedding for Few-Example Recognition and Translation of Events
             Amirhossein Habibian, Thomas Mensink, Cees G.M. Snoek

             Say Cheese vs. Smile: Reducing Speech-related Variability for Facial Emotion Recognition
             Yelin Kim, Emily Mower Provost

10:30 – 5:30  Posters 1
             Session Chairs: Duc Tran, University of Massachusetts at Boston, USA
                     Roy Villafane, Andrews University, USA
             Location: Palm 1
Presentations: 3:30pm
Scalable Image Search with Reliable Binary Code
Chic or Social: Visual Popularity Analysis in Online Fashion Networks
n-gram Models for Video Semantic Indexing
Line-based Drawing Style Description for Manga Classification
Supervised Hashing with Error Correcting Codes
Pedestrian Attribute Classification at Far Distance
MSVA: Musical Street View Animator: An Effective and Efficient Way to Enjoy the Street Views of Your Journey
QoE-driven Unsupervised Image Categorization for Optimized Web Delivery
Speech Emotion Recognition Using CNN
Attractive or Not? Beauty Prediction with Attractiveness-Aware Encoders and Robust Late Fusion
A Wtoolbox: Characterizing Audio Information Using Audio Words
Screencast in the Wild: Performance and Limitations
One-Pass Video Stabilization on Mobile Devices
You Talkin’ to Me? Recognizing Complex Human Interactions in Unconstrained Videos
Instructional Videos for Unsupervised Harvesting and Learning of Action Examples
Beautifying Fisheye Images Using Orientation and Shape Cues
Temporal Fusion Approach Using Segment Weight for Affect Recognition from Body Movements
sTrack: Secure Tracking in Community Surveillance
Searching for Recent Celebrity Images in Microblog Platform
Organizing Video Search Results to Adapted Semantic Hierarchies for Topic-based Browsing
Real-time Summarization for User-generated Videos Based on Semantic Recognition
Hacking Chinese touclick CAPTCHA by Multi-scale Corner Structure Model with Fast Pattern Matching
Orthogonal Gaussian Process for Automatic Age Estimation
Points of Interest Detection from Multiple Sensor-rich Videos in Geo-space
Recognizing Human Activities from Smartphone Sensor Signals
Decoding Auditory Saliency from FMRI Brain Imaging
Crowd Counting via Head Detection and Motion Flow Estimation
Semantic Feature Projection for Continuous Emotion Analysis
Real-time Crowd Detection Based on Gradient Magnitude Entropy Model
Face Recognition from Multiple Images per Subject
Admission Control for Wireless Adaptive HTTP Streaming: An Evidence Theory Based Approach
Matrix Completion for Cross-view Pairwise Constraint Propagation
Cross-media Hashing with Neural Networks
How Your Portrait Impresses People? Inferring Personality Impressions from Portrait Contents
Who’s Time Is it Anyway?
Jointly Discovering Fine-grained and Coarse-grained Sentiments via Topic Modeling
A Real-time Smart Assistant for Video Surveillance through Handheld Devices

10:30 – 5:30 Demos 1: Searching & Finding
Session Chair: Shu-Ching Chen, Florida International University, USA
Location: Palm 1
Fine-grained Visual Faceted Search
Real-time Query-by-Image Video Search System
Automatic Real-time Zooming and Panning on Salient Objects from a Panoramic Video
Event Detection in Broadcasting Video for Halfpipe Sports
Wally: A Scalable Distributed Automated Video Surveillance System with Rich Search Functionalities
Deep Search with Attribute-aware Deep Network
Virtual Director Adapting Visual Presentation to Conversation Context in Group Videoconferencing – an Interactive Demo
SmartVisio: Interactive Sketch Recognition with Natural Correction and Editing
10:30 – 5:30 Industrial Exhibit
Location: Palm 1

10:30 – 5:30 Art Exhibit
Location: Hibiscus/Iris/Poinsettia/Quince/Kahili/Lily
List of exhibits is available on p. 20 of this program

12:00 – 2:00 Lunch Break
Women in SIGMM lunch (by invitation) – Location: Covington Mill Restaurant
ACM TOMM Meeting (by invitation) – Location: Edelweiss

2:00 – 3:30 Research Panel 1: Looking for Emotional & Social Signals in Multimedia: Where Art Thou?
Location: Palm 2
Moderators: Hatice Gunes, Queen Mary University of London, UK
Hayley Hung, Delft University of Technology, Netherlands

Panelists: Elisabeth Andre, University of Augsburg, Germany
Dick Bulterman, FXPAL, USA
Alex Hauptmann, CMU, USA
Rainer Lienhart, University of Augsburg, Germany
Nicu Sebe, University of Trento, Italy

Oral 1: Multimedia Art & Entertainment
Session Chair: Teresa Chambel, University of Lisbon, Portugal
Location: Palm 3
Analysis/Synthesis Approaches for Creatively Processing Video Signals
Javier Villegas, Angus Graeme Forbes
Exploring Principles-of-Art Features for Image Emotion Recognition  
Sicheng Zhao, Yue Gao, Xiaolei Jiang, Hongxun Yao, Tat-Seng Chua, Xiaoshuai Sun

From Writing to Painting: A Kinect-based Cross-modal Chinese Painting Generation System  
Jiajia Li, Grace Ngai, Stephen C.F. Chan, Kien A. Hua, Hong Va Leong, Alvin Chan

Gibber: Abstractions for Creative Multimedia Programming  
Charles Roberts, Matthew Wright, JoAnn Kuchera-Morin, Tobias Höllerer

Oral 2: Action, Activity, and Event Recognition  
Session Chair: Xiang-Sheng Hua, Microsoft, USA  
Location: Palm 4  
Multiple Features but Few Labels? A Symbiotic Solution Exemplified for Video Analysis  
Zhigang Ma, Yi Yang, Nicu Sebe, Alexander G. Hauptmann

Latent Tensor Transfer Learning for RGB-D Action Recognition  
Chengcheng Jia, Yu Kong, Zhengming Ding, Yun Raymond Fu

3D Human Activity Recognition with Reconfigurable Convolutional Neural Networks  
Keze Wang, Xiaolong Wang, Liang Lin, Meng Wang, Wangmeng Zuo

Dynamic Background Learning through Deep Auto-encoder Networks  
Pei Xu, Mao Ye, Xue Li, Qihe Liu, Yi Yang, Jian Ding

Open Source Software Competition – Session 1  
Session Chair: Andreas Girgensohn, FXPAL  
Location: Palm 5
libLDB: A Library for Extracting Ultrafast and Distinctive Binary Feature Description
Xin Yang, Chong Huang, Tim Cheng

Caffe: Convolutional Architecture for Fast Feature Embedding
Yangqing Jia, Evan Shelhamer, Jeff Donahue, Sergey Karayev, Jonathan Long, Ross Girshick, Sergio Guadarrama, Trevor Darrell

Menpo: A Comprehensive Platform for Parametric Image Alignment and Visual Deformable Models
Joan Alabort-i-Medina, Epameinondas Antonakos, James Booth, Patrick Snape, Stefanos Zafeiriou

3:30 – 4:00 Break

4:00 - 5:30 Oral 3: Music, Speech and Audio
Session Chair: Cynthia Liem, Delft University of Technology, Netherlands
Location: Palm 3
Music Emotion Recognition by Multi-label Multi-layer Multi-instance Multi-view Learning
Bin Wu, Erheng Zhong, Andrew Horner, Qiang Yang

Song Recommendation for Social Singing Community
Kuang Mao, Ju Fan, Lidan Shou, Gang Chen, Mohan Kankanhalli

“Sheldon Speaking, Bonjour!” – Leveraging Multilingual Tracks for (Weakly) Supervised Speaker Identification
Hervé Bredin, Anindya Roy, Nicolas Pécheux, Alexandre Allauzen

What’s Making That Sound?
Kai Li, Jun Ye, Kien A. Hua
Oral 4: Deep Learning for Multimedia  
Session Chair: Apostol Natsev, Google, Inc., USA  
Location: Palm 4  
Deep Learning for Content-based Image Retrieval: A Comprehensive Study  
Ji Wan, Dayong Wang, Steven Chu Hong Hoi, Pengcheng Wu, Jianke Zhu, Yongdong Zhang, Jintao Li

Exploring Inter-feature and Inter-class Relationships with Deep Neural Networks for Video Classification  
Zuxuan Wu, Yu-Gang Jiang, Jun Wang, Jian Pu, Xiangyang Xue

Error-driven Incremental Learning in Deep Convolutional Neural Network for Large-scale Image Classification  
Tianjun Xiao, Jiaxing Zhang, Kuiyuan Yang, Yuxin Peng, Zheng Zhang

Start from Scratch: Towards Automatically Identifying, Modeling, and Naming Visual Attributes  
Hanwang Zhang, Yang Yang, Huanbo Luan, Shuicheng Yang, Tat-Seng Chua

Open Source Software Competition – Session 2  
Session Chair: Lynn Wilcox, FXPAL, USA  
Location: Palm 5  
VideoLat – An Extensible Tool for Multimedia Delay Measurements  
Jack Jansen

The Yael Library  
Matthijs Douze, Hervé Jégou

Loki+Lire: A Framework to Create Web-based Multimedia Search Engines  
Giuseppe Becchi, Marco Bertini, Lorenzo Cioni, Alberto Del Bimbo, Andrea Ferracani, Daniele Pezzatini,  
Mathias Lux
Wednesday November 5: Conference Day 2

8:30am  SIGMM Award Presentation and Talk
Technical Achievement Award, Rising Star Award, and Best Thesis Award

Talk: Klara Nahrstedt, University of Illinois at Urbana-Champaign
Back and to the Future: Quality Provisioning for Multimedia Content Delivery
Location: Palm

10:00 – 10:30  Break
Setup for posters, demo, industrial exhibit in Palm 1
Setup for art exhibit in Hibiscus/Iris/Poinsettia/Quince/Kahili/Lily

10:30 – 12:00  Grand Challenge Presentations
Session Chair: Cha Zhang, Microsoft Research, USA
Location: Palm 2-5
What are the Fashion Trends in New York?
Shintami C. Hidayati, Kai-Lung Hua, Wen-Huang Cheng, Shih-Wei Sun

Discovering the City by Mining Diverse and Multimodal Data Streams
Yin-Hsi Kuo, Yan-Ying Chen, Bor-Chun Chen, Wen-Yu Lee, Chun-Che Wu, Chia-Hung Lin, Yu-Lin Hou,
Wen-Feng Cheng, Yi-Chih Tsai, Chung-Yen Hung, Liang-Chi Hsieh, Winston Hsu

New Yorker Melange: Interactive Brew of Personalized Venue Recommendations
Jan Zahálka, Stevan Rudinac, Marcel Worring
ATLAS: Automatic Temporal Segmentation and Annotation of Lecture Videos Based on Modelling Transition Time
Rajiv Ratn Shah, Yi Yu, Anwar Dilawar Shaikh, Suhua Tang, Roger Zimmerman

Predicting Viewer Perceived Emotions in Animated GIFs
Brendan Jou, Subhabrata Bhattacharya, Shih-Fu Chang

Context-based Photography Learning Using Crowdsourced Images and Social Media
Yogesh Singh Rawat, Mohan S. Kankanhalli

Virtual Portraitist: Aesthetic Evaluation of Selfies Based on Angle
Mei-Chen Yeh, Hsiao-Wei Lin

Cross Modal Deep Model and Gaussian Process Based Model for MSR-Bing Challenge
Jian Wang, Cuicui Kang, Yonghao He, Shiming Xiang, Chunhong Pan

Bag-of-Words Based Deep Neural Network for Image Retrieval
Yalong Bai, Wei Yu, Tianjun Xiao, Chang Xu, Kuiyuan Yang, Tiejunn Zhao, Wei-Ying Ma

Click-through-based Subspace Learning for Image Search
Yingwei Pan, Ting Yao, Xinmei Tian, Houqiang Li, Chong-Wah Ngo

MMSJ Meeting (by invitation)
Location: Edelweiss
10:30 – 5:30 Posters 2
Session Chair: Roy Villafane, Andrews University, USA
Duc Tran, University of Massachusetts at Boston, USA
Location: Palm 1
Presentations: 3:30pm
Modeling the Interest-forgetting Curve for Music Recommendation
Learning to Assess Image Retargeting
Efficient Image Retargeting via Adaptive Pixel Fusion
Learning Compact Face Representation: Packing a Face into an int32
Person Search in a Scene by Jointly Modeling People Commonness and Person Uniqueness
Object Tracking using Reformative Transductive Learning with Sample Variational Correspondence
Multimodal Dynamic Networks for Gesture Recognition
Event Detection Based on Twitter Enthusiasm Degree for Generating a Sports Highlight Video
Boosting Cross-media Retrieval via Visual-auditory Feature Analysis and Relevance Feedback
Transfer in Photography Composition
Eyes Whisper Depression
Just Browsing? Understanding User Journeys in Online TV
Inductive Transfer Deep Hashing for Image Retrieval
What Can We Learn about Motion Videos from Still Images?
Modeling Attributes from Category-Attribute Proportions
Exploiting Correlation Consensus: Towards Subspace Clustering for Multi-modal Data
Learning Multimodal Neural Network with Ranking Examples
Supervised Discriminative Hashing for Compact Binary Codes
Personalized Visual Vocabulary Adaption for Social Image Retrieval
Co-saliency Detection via Base Reconstruction
Automatic Facial Image Annotation and Retrieval by Integrating Voice Label and Visual Appearance
Query-Adaptive Hash Code Ranking for Fast Nearest Neighbor Search
Systematic Assessment of the Video Recording Position for User-Generated Event Videos
BAP: Bimodal Attribute Prediction for Zero-Shot Image Categorization
Building a Self-learning Eye Gaze Model from User Interaction Data
Toward an Estimation of User Tagging Credibility for Social Image Retrieval
Affective Image Retrieval via Multi-Graph Learning
Recognizing Thousands of Legal Entities through Instance-based Visual Classification
Automatic Fine-grained Hyperlinking of Videos Within a Closed Collection Using Scene Segmentation
Automatic Maya Hieroglyph Retrieval Using Shape and Context Information
A Dataset and Taxonomy for Urban Sound Research
Instructive Video Retrieval Based on Hybrid Ranking and Attribute Learning
A Real-time Smart Display Detection System
Pose Maker: A Pose Recommendation System for Person in the Landscape Photographing
Representing Musical Patterns via the Rhythmic Style Histogram Feature
Mobile Photo Album Management with Multiscale Timeline
Interactive Audio Web Development Workflow
What Strikes the Strings of Your Heart?
Fusing Music and Video Modalities Using Multi-timescale Shared Representations
Twitter-driven YouTube Views: Beyond Individual Influencers

10:30 – 5:30 Demos 2: Senses and Sensors
Session Chair: Stefan Göbel, Technische Universität Darmstadt, Germany
Location: Palm 1
Taste+: Digitally Enhancing Taste Sensations of Food and Beverages
Reverbalize: A Crowdsourced Reverberation Controller
SynthAssist: An Audio Synthesizer Programmed with Vocal Imitation
Eat As Much As You Can: A Kinect-based Facial Rehabilitation Game Based on Mouth and Tongue Movements
A Multimedia E-Health Framework Towards an Interactive and Non-invasive Therapy Monitoring Environment
EventEye: Monitoring Evolving Events from Tweet Streams
3D Immersive Cardiopulmonary Resuscitation (CPR) Trainer
Taking Good Selfies on Your Phone

10:30 – 5:30  Industrial Exhibit
Location: Palm 1

10:30 – 5:30  Art Exhibit
Location: Hibisicus/Iris/Poinsettia/Quince/Kahili/Lily
List of exhibits is available on p. 20 of this program

12:00 – 2:00  Lunch Break
Doctoral Symposium lunch (by invitation) – Location: Covington Mill
MMMagazine Meeting (by invitation) – Location: Edelweiss

2:00 – 3:30  Industry Panel: Innovative Multimedia Technologies in Industrial Applications
Location: Palm 2
Chairs: Ivica Rimac, Alcatel Lucent, USA
Borko Furht, Florida Atlantic University, Director of NSF I/UCRC, USA

Panelists: Borko Furht, Florida Atlantic University, Director of NSF I/UCRC, USA
Jan Bowen, Bell Labs Alcatel-Lucent, USA
Lynn Wilcox, FX Palo Alto Laboratory, USA
David Jaramillo, IBM, USA
Yong Rui, Microsoft Research, USA
Oral 5: Multimedia HCI and QoE  
Session Chair: Judith Redi, Delft University of Technology, Netherlands  
Location: Palm 3

*Perception-guided Multimodal Feature Fusion for Photo Aesthetics Assessment*  
Luming Zhang, Yue Gao, Chao Zhang, Hanwang Zhang, Qi Tian, Roger Zimmermann

*Impact of Ultra High Definition on Visual Attention*  
Hiromi Nemoto, Phillipe Hanhart, Pavel Korshunov, Touradj Ebrahimi

*An Objective Quality of Experience (QoE) Assessment Index for Retargeted Images*  
Jiangyang Zhang, C.-C. Jay Kuo

*Acceptability-based QoE Management for User-centric Mobile Video Delivery: A Field Study Evaluation*  
We Song, Dian Tjondronegoro, Ivan Himawan

Oral 6: Multimedia Analysis and Mining  
Session Chair: Benoit Huet, Eurecom  
Location: Palm 4

*Weakly-supervised Image Parsing via Constructing Semantic Graphs and Hypergraphs*  
Wenxuan Xie, Yuxin Peng, Jianguo Xiao

*Fused One-vs-All Mid-level Features for Fine-grained Visual Categorization*  
Xiaopeng Zhang, Hongkai Xiong, Wengang Zhou, Qi Tian

*Scalable Visual Instance Mining with Threads of Features*  
Wei Zhang, Hongzhi Li, Chong-Wah Ngo, Shih-Fu Chang
Multi-modal Mutual Topic Reinforce Modeling for Cross-media Retrieval
Yanfei Wang, Fei Wu, Jun Song, Xi Li, Yueting Zhuang

Doctoral Symposium – Session 1
Session Chair: Oge Marques, Florida Atlantic University, USA
Location: Palm 5
Medical Case Retrieval
Mario Taschwer
Panelist: Xavier Giró-I-Nieto

Mobile Video Broadcasting Services – Combining Video Composition and Network Efficient Transmission
Stefan Wilk
Panelist: Laszlo Böszörményi

Music-Information Retrieval in Environments Containing Acoustic Noise
David Grunberg
Panelist: Alexander Hauptmann

3:30 – 4:00 Break, Poster 2 Presentations - Location: Palm 1
4:00 - 5:30  Oral 7: Multimedia Systems
Session Chair: Carsten Griwodz, University of Oslo, Norway
Location: Palm 3
Quality-adaptive Prefetching for Interactive Branched Video using HTTP-based Adaptive Streaming
Vengatanathan Krishnamoorthi, Niklas Carlsson, Derek Eager, Anirban Mahanti, Nahid Shahmehri

Self-Organized Inter-Destination Multimedia Synchronization for Adaptive Media Streaming
Benjamin Rainer, Christian Timmerer

Anahita: A System for 3D Video Streaming with Depth Customization
Kiana Calagari, Krzysztof Templin, Tarek Elgamal, Khaled Diab, Piotr Didyk, Wojciech Matusik, Mohamed Hafeeda

LiveRender: A Cloud Gaming System Based on Compressed Graphics Streaming
Li Lin, Xiaofei Liao, Guang Tan, Hai Jin, Xiaobin Yang, Wei Zhang, Bo Li

Oral 8: Emotional and Social Signals in Multimedia
Session Chair: Hayley Hung, Delft University of Technology, Netherlands
Location: Palm 4
We Are Not All Equal: Personalizing Models for Facial Expression Analysis with Transductive Parameter Transfer
Enver Sangineto, Gloria Zen, Elisa Ricci, Nicu Sebe

Object-based Visual Sentiment Concept Analysis and Application
Tao Chen, Felix X. Yu, Jaiwei Chen, Yin Cui, Yan-Ying Chen, Shih-Fu Chang
An Event Driven Fusion Approach for Enjoyment Recognition in Real-time
Florian Lingenfelser, Johannes Wagner, Elisabeth André, Gary McKeown, Will Curran

Correlating Speaker Gestures in Political Debates with Audience Engagement Measured via EEG
John R. Zhang, Jason Sherwin, Jacek Dmochowski, Paul Sajda, John R. Kender

Doctoral Symposium – Session 2
Session Chair: Laszlo Bőszörményi, University of Klagenfurt, Austria
Location: Palm 5
Local Selection of Features for Image Search and Annotation
Jichao Sun
Panelist: Arnold Smeulders

Segmentation and Indexing of Endoscopic Videos
Manfred Jurgen Primus
Panelists: Wallapak Tavanapong and Oge Marques

Learning Recognition of Semantically Relevant Video Segments from Endoscopy Videos Contributed and Edited in a Private School Network
Desara Xhura
Panelist: Vincent Charvillat

Multimodal Alignment of Videos
Mario Guggenberger
Panelist: Hayley Hung

6:30  Conference Banquet and TOMM NG Award Presentation
6:30 – 10:00, Palm 2, 3, 4, 5
Thursday November 6: Conference Day 3

8:30am  Keynote: Rosalind Picard, MIT  
*Affective Media and Wearables: Surprising Findings*  
Location: Palm

10:00 – 10:30  Break  
Setup for posters, demo, industrial exhibit in Palm 1  
Setup for art exhibit in Hibiscus/Iris/Poinsettia/Quince/Areca/Veranda

10:30 – 12:00  High-Risk High-Return Presentations  
Session Chair: Rainer Lienhart, Augsburg University, Germany  
Location: Palm 2  
*How ‘How’ Reflects What’s What: Content-based Exploitation of How Users Frame Social Images*  
Michael Riegler, Martha Larson, Mathias Lux, Christoph Kofler

*A Group Testing Framework for Similarity Search in High-dimensional Spaces*  
Miaojing Shi, Teddy Furon, Hervé Jégou

*Object Segmentation in Images Using EEG Signals*  
Eva Mohedano, Graham Healy, Kevin McGuinness, Xavier Giro Nieto, Noel O’Connor, Alan Smeaton

*Help Save the Planet: Please Do Adjust Your Picture*  
Oche Ejembi, Saleem N. Bhatti
Oral 9: Multimedia Applications  
Session Chair: Touradj Ebrahimi, EPFL  
Location: Palm 3  
Media Experience of Complementary Information and Tweets on a Second Screen  
Kenta Kusumoto, Teemu Kinnunen, Jari Kätsyri, Heikki Lindroos, Pirkko Oittinen

Interactive Line Drawing Recognition and Vectorization with Commodity Camera  
Pradeep Kumar Jayaraman, Chi-Wing Fu

RAPID: Rating Pictorial Aesthetics using Deep Learning  
Xin Lu, Zhe Lin, Hailin Jin, Jianchao Yang, James Z. Wang

Fashion Parsing with Video Context  
Si Liu, Xiaodan Liang, Luoqi Liu, Ke Lu, Liang Lin, Shuicheng Yan

JMM Meeting (by invitation)  
Location: Edelweiss

10:30 – 5:30  
Posters 3  
Session Chair: Duc Tran, University of Massachusetts at Boston, USA  
Roy Villafane, Andrews University, USA  
Location: Palm 1  
Presentations: 3:30pm  
Representing and Recognizing Motion Trajectories: A Tube and Droplet Approach  
Multi-modal Language Models for Lecture Video Retrieval  
Food Detection and Recognition Using Convolutional Neural Network  
Locality Preserving Discriminative Hashing
Augmented Image Retrieval Using Multi-order Object Layout with Attributes
The Stack-of-Rings Interface for Large-scale Image Browsing on Mobile Touch Devices
Automatic Personality and Interaction Style Recognition from Facebook Profile Pictures
Automatic Image Cropping Using Visual Composition, Boundary Simplicity and Content Preservation Models
Mask Assisted Object Coding with Deep Learning for Object Retrieval in Surveillance Videos
Estimate Gaze Density by Incorporating Emotion
Trajectory Based Jump Pattern Recognition in Broadcast Volleyball Videos
Fast Instance Search Based on Approximate Bichromatic Reverse Nearest Neighbor Search
A Robust Panel Extraction Method for Manga
RIFF: Retina-inspired Invariant Fast Feature Descriptor
Stevens’ Power Law in 3D Tele-immersion
Multi-view Multi-task Feature Extraction for Web Image Classification
Image Re-ranking with an Alternative Optimization
Automatic Removal of Visual Stop-words
Automatic Image Synthesis from Keywords Using Scene Context
Face-based Automatic Personality Perception
Facial Attribute Space Compression by Latent Human Topic Discovery
Emotional Analysis of Music: A Comparison of Methods
Clothing Retrieval Based on Local Similarity with Multiple Images
Convolutional Network Features for Scene Recognition
Perceived Audio Quality for Streaming Stereo Music
Discriminating Native from Non-native Speech Using Fusion of Visual Cues
A Framework of Mobile Visual Search Based on the Weighted Matching of Dominant Descriptor
Efficient Cross-domain Image Retrieval by Multi-level Matching and Spatial Verification for Structural Similarity
Learning Like a Toddler: Watching Television Series to Learn Vocabulary from Images and Audio
Cuteness Recognition and Localization in the Photos of Animals
A 3D Fingertips Detecting and Tracking Algorithm Based on the Sliding Window Temporal Dropout of Changes Approach to Convolutional Learning of Spatio-temporal Features Real-time HDR Panorama Video
Dynamic Resource Management in Cloud-based Distributed Virtual Environments Interactive 3D Animation Creation and Viewing System Based on Motion Graph and a Pose Estimation Method
Color Transfer Based on Spatial Structure for Telepresence Human Computer Interface for Quadriplegic People Based on Face Position / Gesture Detection A Multi-touch DJ Interface with Remote Audience Feedback

10:30 – 5:30 Demos 3: Systems
Session Chair: Carsten Griwodz, Simula Research Laboratory, Norway
Location: Palm 1
WeMash: An Online System for Web Video Mashup
FreeViewer: An Intelligent Director for 3D Tele-immersion System
MiSCon: A Hot Plugging Tool for Real-time Motion-based System Control
CeleLabel: An Interactive System for Annotating Celebrities in Web Videos
FoodCam-256: A Large-scale Real-time Mobile Food Recognition System Employing High-dimensional Features and Compression of Classifier Weights
HDM Viewing Spherical Video Streaming System
Jiku Director 2.0: A Mobile Video Mashup System with Zoom and Pan Using Motion Maps
ClockDrift: A Mobile Application for Measuring Drift in Multimedia Devices

10:30 – 5:30 Industrial Exhibit
Location: Palm 1
10:30 – 5:30  Art Exhibit  
Location: Hibiscus/Iris/Poinsettia/Quince/Kahili/Lily  
List of exhibits is available on p. 20 of this program

12:00 – 2:00  Lunch Break  
SIGMM Business Meeting (open to all, lunch provided) – Location: Palm 2

2:00 – 3:30  Research Panel 2: The Future of Audio Multimedia  
Location: Palm 2  
Moderator: Michael Mandel, the Ohio State University, USA  
Panelists: Paris Smaragdis, University of Illinois, Urbana-Champaign  
Gerald Friedland, International Computer Science Institute  
Josh McDermott, MIT  
Youngmoo Kim, Drexel University  
Dan Ellis, Columbia University

Oral 10: Privacy, Health, and Well-being  
Session Chairs: Jenny Benois-Pineau, University of Bordeaux, France  
Wallapak Tavanapong, Iowa State University, USA  
Location: Palm 3  
*Daily Stress Recognition from Mobile Phone Data, Weather Conditions and Individual Traits*  
Andrey Bogomolov, Bruno Lepri, Michela Ferron, Fabio Pianesi, Alex (Sandy) Pentland

*Validating an iOS-based Rhythmic Auditory Cueing Evaluation (iRACE) for Parkinson’s Disease*  
Shenggao Zhu, Robert J. Ellis, Gottfried Schlaug, Yee Sien Ng, Ye Wang
Towards Efficient Privacy-preserving Image Feature Extraction in Cloud Computing
Zhan Qin, Jingbo Yan, Kui Ren, Chang Wen Chen, Cong Wang

User-level Psychological Stress Detection from Social Media Using Deep Neural Network
Huijie Lin, Jia Jia, Quan Guo, Yuanyuan Xue, Qi Li, Jie Huang, Lianhong Cai, Ling Feng

Oral 11: Multimedia Search and Indexing
Session Chair: Qi Tian, University of Texas, San Antonio, USA
Location: Palm 4
Optimized Distances for Binary Code Ranking
Jianfeng Wang, Heng Tao Shen, Shuicheng Yan, Nenghai Yu, Shipeng Li, Jingdong Wang

Iterative Multi-view Hashing for Cross Media Indexing
Yao Hu, Zhongming Jin, Hongyi Ren, Deng Cai, Xiaofei He

Rescue Tail Queries: Learning to Image Search Re-rank via Click-wise Multimodal Fusion
Xiaopeng Yang, Tao Mei, Yongdong Zhang

Easy Samples First: Self-paced Reranking for Zero-example Multimedia Search
Lu Jiang, Deyu Meng, Teruko Mitamura, Alexander G. Hauptmann

Exchange Meeting (by invitation)
Location: Palm 5

3:30 – 4:00 Break, Poster 2 Presentations - Location: Palm 1
4:00 - 5:30 Oral 12: Social Media and Crowd
Session Chair: Lexing Xie, Australian National University
Location: Palm 3
Mining Cross-network Association for YouTube Video Promotion
Ming Yan, Jitao Sang, Changsheng Xu

One of a Kind: User Profiling by Social Curation
Xue Geng, Hanwang Zhang, Yang Yang

3D Interest Maps from Simultaneous Video Recordings
Axel Carlier, Lilian Calvet, Duong Trung Dung Nguyen, Wei Tsang Ooi, Pierre Gurdjos, Vincent Charvillat

Crowdsourcing a Reverberation Descriptor Map
Prem Seetharaman, Bryan Pardo

Oral 13: Multimedia Recommendations
Session Chair: Shuicheng Yan, National University of Singapore, Singapore
Location: Palm 4
What Videos Are Similar with You? Learning a Common Attributed Representation for Video Recommendation
Peng Cui, Zhiyu Wang, Zhou Su

ADVISOR – Personalized Video Soundtrack Recommendation by Late Fusion with Heuristic Rankings
Rajiv Ratn Shah, Yi Yu, Roger Zimmermann

Social Embedding Image Distance Learning
Shaowei Liu, Peng Cui, Wenwu Zhu, Shiqiang Yang, Qi Tian
Improving Content-based and Hybrid Music Recommendation Using Deep Learning
Xinxi Wang, Ye Wang

5:30 – 6:00 Closing Session (including Best Demo Award announcement)
Location: Palm 2
Friday November 7: Workshops

Breaks at 10:00 and 3:30, Lunch from 12:00 – 2:00, except where noted on the individual workshop programs

HuEvent 2014: Human Centered Event Understanding from Multimedia
8:30-5:30
Location: Palm 3

8:30 – 10:00  Joint Keynote Address (with ISSM 2014): Ramesh Jain, University of California, Irvine, USA
Objective Story Telling
Location: Palm 5

10:30 – 12:00  Entity Centric Feature Pooling for Complex Event Detection
Ishani Chakraborty, Hui Cheng, Omar Javed

Skeleton-augmented Human Action Understanding by Learning with Progressively Refined Data
Shih-En Wei, Nick C. Tang, Yen-yu Lin, Ming-Fang Weng, Hong-Yuan Mark Liao

Using Minute-by-Minute Match Report for Semantic Event Annotation in Soccer Video
Zengkai Wang, Junqing Yu

Event Understanding in Endoscopic Surgery Videos
Mario Guggenberger, Michael Riegler, Mathias Lux, Pål Halvorsen

2:00 – 3:00  Concept-based Image Clustering and Summarization for Event-related Image Collections
Christina Papiannopoulou, Vasileios Mezaris
Sentiment Flow for Video Interestingness Prediction  
Sejong Yoon, Vladimir Pavlovic

User Emotion Sensing in Search Process Based on Chromatic Sensation  
Tomoko Kajiyama, Shin’ichi Satoh

Investigating Human Factors in Forgery Detection  
Parag Shridhar Chandakkar, Baoxin Li

3:30 – 5:30  
On the Personalization of Event-based Systems  
Opher Etzion, Fabiana Forunier

ACM International Workshop on Serious Games  
8:30 – 5:30  
Location: Palm 4

8:30 – 10:00  
Keynote Address: Tom Baranowski, Baylor College, USA  
The Five Most Important Research Issues in Effective Game for Health Design (from a Behavioral Scientist’s Perspective)

10:30 – 12:00  
Serious Games Development as a Vehicle for Teaching Entertainment Technology and Interdisciplinary Teamwork: Perspectives and Pitfalls  
Ralf Dörner, Ulrike Spierling

Matching Game Mechanics and Human Computation Tasks in Games with a Purpose  
Luca Galli
A Method for Simulating Players in a Collaborative Multiplayer Serious Game
Viktor Wendel, Johannes Alef, Stefan Göbel, Ralf Steinmetz

Learning Analytics and Serious Games: Trends and Considerations
Laila Shoukry, Stefan Göbel, Ralf Steinmetz

2:00 – 3:30
A Natural and Immersive Virtual Interface for the Surgical Safety Checklist Training
Andrea Ferracani, Daniele Pezzatini, Alberto Del Bimbo

Serious Games in Neurohabilitation: A Systematic Review of Recent Evidence
Josef Wiemeyer

Serious Game Development: Case Study of the 2013 CDC Games for Health Game Jam
Jon A. Preston

4:00 – 5:30
Lessons Learned from Testing a Children’s Educational Game through Web Deployment
Michael G. Christel, Scott M. Stevens, Bryan S. Maher, Matthew Champer, Samantha Collier, Ricardo Merchan Benavides, Sean Brice

Study-Town – A Game for Cultural Awareness
Jennifer Bohn, Maximilian Eibl, Arne Berger, Stefanie Müller

What Makes Games Challenging? Considerations on How to Determine the “Challenge” Posed by an Exergame for Balance Training
Sandro Hardy, Angelika Kern, Tim Dutz, Christoph Weber, Stefan Göbel, Ralf Steinmetz
ISMM 2014: 1st International Workshop on Internet-scale Multimedia Management
8:30-5:30
Location: Palm 5

8:30 – 10:00 Joint Keynote Address (with HuEvent 2014): Ramesh Jain, University of California, Irvine, USA
Objective Story Telling

Keynote Address: Xian-Sheng Hua, Microsoft Research, USA
Pushing Image Recognition in the Real-world: Towards Recognizing Millions of Entities

10:30 - 12:00 Large-scale Aerial Image Categorization by Multi-task Discriminative Topologies Discovery
Yingjie Xia, Luming Zhang, Suhua Tang

Exploiting Digital Photos and Their Metadata for Social Storytelling from Online Social Networks
Mukesh Kumar Saini, Fatimah Al-Zamzami, Abdulmotaleb El Saddik

Social Popularity Score: Predicting Numbers of Views, Comments, and Favorites of Social Photos Using Annotations
Toshihiko Yamasaki, Shumpei Sano, Kiyoharu Aizawa

2:00 – 3:30 Bridging the User Intention Gap: An Intelligent and Interactive Multidimensional Music Search Engine
Shenggao Zhu, Jingli Cai, Jiangang Zhang, Zhonghua Li, Ju-Chiang Wang, Ye Wang

Genre-based Analysis of Social Media Data on Music Listening Behavior: Are Fans of Classical Music Really Averse to Social Media?
Markus Schedl, Marko Tkalcic
#nowplaying Music Data Set: Extracting Listening Behavior from Twitter
Eva Zangerie, Martin Pichl, Wolfgang Gassler, Günther Specht

4:00 – 5:30 Poster Session

Student Performance Evaluation of Multimodal Learning via a Vector Space Model
Subhasree Basu, Yi Yu, Roger Zimmerman

Empirical Observation of User Activities: Check-ins, Venue Photos and Tips in Foursquare
Yi Yu, Suhua Tang, Roger Zimmerman, Kiyoharu Aizawa

The Influence of Audio Quality on the Popularity of Music Videos: A YouTube Case Study
Michael Schoeffler, Jürgen Herre

Monitoring of User Generated Video Broadcasting Services
Denny Stohr, Stefan Wilk, Wolfgang Effelsberg

Automatic Video Intro and Outro Detection on Internet Television
Maryam N. Arani, Xiao-Ping Zhang

A Secure P2P Architecture for Video Distribution
Francisco de Asís Lopez-Fuentes, Carlos Alberto Orta-Cruz
AVEC 2014: The 4th International Audio/Visual Emotion Challenge & Workshop
8:30-5:30
Location: Fuschia

8:30 – 10:00  Keynote Address & Introduction
Speech Modeling for Depression Detection
Julien Epps, University of New South Wales, Australia

AVEC 2014 – 3D Dimensional Affect and Depression Recognition Challenge
Michel Valstar, Bjorn Schuller, Kirsty Smith, Timur Almaev, Florian Eyben, Jarek Krajewski, Roddy Cowie

10:30 – 12:00  Multi-scale Temporal Modeling for Dimensional Emotion Recognition in Video
Linlin Chao, Jianhua Tao, Minghao Yang, Ya Li, Zhengqi Wen

Ensemble CCA for Continuous Emotion Prediction
Heysem Kaya, Fazilet Çilli, Albert Ali Salah

Building a Database of Political Speech: Does Culture Matter in Charisma Annotations?
Ailbhe Cullen, Andrew Hines, Naomi Harte

Multimodal Prediction of Affective Dimensions and Depression in Human-computer Interactions
Rahul Gupta, Nikolaos Malandrakis, Bo Xiao, Tanaya Guha, Maarten Van Segbroeck, Matthew Black, Alexandros Potamianos, Shrikanth Narayanan

Inferring Depression and Affect from Application Dependent Meta Knowledge
Markus KSchele, Martin Schels, Friedhelm Schwenker
2:00 – 3:30  
**Fusing Affective Dimensions and Audio-visual Features from Segmented Video for Depression Recognition**
Humberto Pérez Espinosa, Hugo Jair Escalante, Luis Villaseñor-Pineda, Manuel Montes-y-Gomez, David Pinto-Avedaño, Veronica Reyez-Meza

**Model Fusion for Multimodal Depression Classification and Level Detection**
Mohammed Senoussaoui, Milton Sarria-Paja, João F. Santos, Tiago H. Falk

**Vocal and Facial Biomarkers of Depression Based on Motor Incoordination and Timing**
James R. Williamson, Thomas F. Quatieri, Brian S. Helfer, Gregory Ciccarelli, Daryush D. Mehta

4:00 – 5:30  
**Automatic Depression Scale Prediction Using Facial Expression Dynamics and Regression**
Asim Jan, Hongying Meng, Yona Falinie A. Gaus, Fan Zhang, Saeed Turabzadeh

**Emotion Recognition and Depression Diagnosis by Acoustic and Visual Features: A Multimodal Approach**
Maxim Sidorov, Wolfgang Minker

**Depression Estimation Using Audiovisual Features and Fisher Vector Encoding**
Varun Jain, James L. Crowley, Augustin Lux, Anind K. Dey

**The SRI AVEC-2014 Evaluation System**
Vikramjit Mitra, Elizabeth Shriberg, Mitchell McLaren, Andrewas Kathol, Colleen Richey, Dimitra Vergyri, Martin Graciarena
WCPR 2014: Workshop on Computational Personality Recognition
8:30 – 12:00
Location: Gardenia

8:30 – 10:00  A Multivariate Regression Approach to Personality Impression Recognition of Vloggers
Golnoosh Farnadi, Shanu Sushmita, Geetha Sitaraman, Nhat Ton, Martine De Cock, Sergio Davalos

Evaluating Content-independent Features for Personality Recognition
Ben Verhoeven, Juan Soler Company, Walter Daelemans

Feature Analysis for Computational Personality Recognition Using YouTube Personality Data Set
Chandrima Sarkar, Sumit Bhatia, Arvind Agarwal, Juan Li

Predicting Personality Traits Using Multimodal Information
Firoj Alam, Giuseppe Riccardi

10:30 – 12:00  The Impact of Affective Verbal Content on Predicting Personality Impressions in YouTube Videos
Sonja Gievska, Kiril Koroveshovski

Look! Who’s Talking? Personality Projection Across Different Social Contexts
Scott Nowson, Alastair J. Gill
ImmersiveME 2014: 2nd International ACM Workshop on Immersive Media Experiences
8:30 – 5:30
Location: Hibiscus

8:30  Welcome Address

8:45  Session 1: Perceptual Immersion
   Development of a Simple and Low-cost Olfactory Display for Immersive Media Experiences
   Nicolas S. Herrera, Ryan P. McMahan

   The Sensation of Taste in the Future of Immersive Media
   Nimesha Ranasinghe, Kuan-Yi Lee, Gajan Suthokumar, Ellen Yi-Luen Do

   ENF Signal Induced by Power Grid: A New Modality for Video Synchronization
   Hui Su, Adi Hajj-Ahmad, Chau-Wai Wong, Ravi Garg, Min Wu

10:30  Session 2: Enabling Technologies & Applications
   On-display Spatial Audio for Multiple Applications on Large Displays
   Sachin Deshpande

   Integration of a Precise Indoor Position Tracking Algorithm with an HMD-based Virtual Reality System
   Jongkyu Shin, Gwangseok An, Kyogu Lee

11:00  Keynote Address: Christopher Stapleton, Real World Laboratory, USA
   Immersion, Imagination & Innovation: Media Immersion Matching the Power of the Imagination to Innovate the Future
2:00  Session 3: Immersion & Effect
Transforming Lives through Story Immersion
Christopher Stapleton, Janet Whiteside, Jim Davies, Dana Mott, Jennifer Vick

Sensory Fiction: A Design Fiction of Emotional Computation
Felix Heibeck, Alexis Hope, Julie Legault

GACE: Gesture and Appearance Cutout Embedding for Gaming Applications
Tam V. Nguyen, Jose Sepulveda, Yong He Tan

Mindful: A Platform for Large-scale Affective Field Research
Guy Feigenblat, Jonathan Herzig, Michal Shmueli-Scheuer, David Konopnicki

4:00  Discussions & Demos - Immersive Media: The Road Around and Ahead

EMASC 2014: 1st International ACM Emerging Multimedia Applications and Services for Smart Cities
2:00 – 5:30
Location: Gardenia

2:00 – 3:30  Keynote: Charles E. Hughes, University of Central Florida, USA
*Human Surrogates: Remote Presence for Collaboration and Education in Smart Cities*

SAIS: *Smartphone Augmented Infrastructure Sensing for Public Safety and Sustainability in Smart Cities*
Chen-Chih Liao, Ting-Fang Hou, Ting-Yi Lin, Yi-Jun Cheng, Aiman Erbad, Cheng-Hsin Hsu, Nalini Venkatasubramania
A Cloud-assisted Internet of Things Framework for Pervasive Healthcare in Smart City Environment
Mohammad Mehedi Hassan, Hanouf Saad Albakr, Hmood Aldossari

Reducing Traffic Congestion Using Geo-fence Technology: Application for Emergency Car
Shirin Noei, Hugo Santana, Arman Sargolzaei, Mohammadreza Noei

4:00 – 5:30 Invited Talk: Ben A. Amaba, IBM, USA
Industrial and Business Systems for Smart Cities

Detection and Visualization of Emotions in an Affect-aware City
Benjamin Guthier, Rajwa Alharthi, Rana Abaalkhail, Abdalmotaleb El Saddik

Multi-device Interaction for Content Sharing
Valentina Conotter, Guido Grassel, Francesco De Natale

An Intuitive Touch Screen Interface for Car Remote Control
Michael Moski, Pradeep K. Atrey

MAED 2014: Regular and Data Challenge Workshop on Multimedia Analysis for Ecological Data
8:30 – 5:30
Location: Iris

8:30 – 10:00 Keynote Address, Professor Mubarak Shah, University of Central Florida, USA
Detection and Tracking in Crowds

10:30 – 12:00 Fish Species Identification in Real-life Underwater Images
Simone Palazzo, Francesca Murabito
Fish Species Recognition from Video Using SVM Classifier
Katy Blanc, Diane Lingrand

Mountain Peak Identification in Visual Content Based on Coarse Digital Elevation Models
Roman Fedorov, Piero Fraternali, Marco Tagliasacchi

2:00 – 3:30
Toward Knowledge Driven Visual Recognition
Jia Deng, University of Michigan, USA

4:00 – 5:30
Crowd-sourcing Applied to Photograph-based Automatic Habitat Classification
Mercedes Torres Torres, Guoping Qiu

A Typical Day Based Approach to Detrend Solar Radiation Time Series
Luigi Fortuna, Silvia Nunnari, Antonio Gallo

Are Multimedia Identification Tools Biodiversity-friendly?
Alexis Joly, Hervé Goëau, Pierre Bonnet, Concetto Spampinato, Hervé Glotin, Andreas Rauber, Willem-Pier Vellinga, Robert Fisher, Henning Müller

SAM 2014: 3rd International Workshop on Socially-Aware Multimedia
8:30 – 5:30
Location: Poinsettia

8:50 - 9:00: Welcome
9:00 - 10:00: Paper presentations
Cyber Bullying Detection Using Social and Textual Features
Qianjia Huang, Vivek Singh and Pradeep Atrey

Recovering Social Interaction Spatial Structure from Multiple First-person Views
Tian Gan, Yongkang Wong, Bappaditya Mandal, Vijay Chandrasekhar, Liyuan Li, Joo Hwee Lim and Mohan Kankanhalli

The Influence of Interactivity Patterns on the Quality of Experience in Multi-party Video-mediated Conversations under Symmetric Delay Conditions
Marwin Schmitt, Simon Gunkel, Pablo Cesar and Dick Bulterman

10:30 - 11:00: Invited Talk: Tat-Seng Chua, National University of Singapore, Singapore
The Multimedia Challenges in Social Media Analytics

11:00 - 12:00: Keynote Talk: Karrie Karahalios, University of Illinois at Urbana-Champaign, USA
Visualizing Coordinated Communicative Behavior

14:00 - 14:30: Invited Talk: Munmun De Choudhury, Georgia Tech, USA
Role of Social Media in Tackling Challenges in Mental Health

14:30 - 15:00: Invited Talk: Aisling Kelliher, Carnegie Mellon University, USA
Critically Aware Multimedia

15:00 - 15:30: Invited Talk: Ramesh Jain, University of California, Irvine, USA
The Social in Multimedia

15:30 - 16:00: Coffee Break
16:00 - 17:00: Keynote Talk: Mor Naaman, Cornell Tech and Seen.co, USA
Attention Rank: Using Social Media to Create Content in the New Information Landscape

PIVP 2014: 1st International Workshop on Perception Inspired Video Processing
9:00 – 5:30
Location: Quince

8:30 - 9:00 Opening Remarks

9:00 - 10:00 Keynote: Paul Sajda, Columbia University, USA
Neural Correlates of Spatiotemporal Event Recognition: Application to Brain-computer Interfaces for Video Exploitation

10:30 - 12:00 Compressed-domain Correlates of Fixations in Video
Sayed Hossein Khatoonabadi, Ivan V. Bajic, Yufeng Shan

Classifying Perceptual Experience of Tone-mapped High Dynamic Range Videos through EEG
Seong-Eun Moon, Jong-Seok Lee

A Neurobiologically-inspired Stochastic Framework for Video Search and Analysis
Ricky J. Sethi

Attention Retargeting by Color Manipulation in Images
Victor A. Mateescu, Ivan V. Bajic

Geometrical Cues in Visual Saliency Models for Active Object Recognition in Egocentric Videos
Vincent Buso, Jenny Benoist-Pineau, Jean-Phillipe Domenger
2:00 - 3:30  Interactive Demos
Can Subliminal Flicker Guide Attention in Natural Images
Victor A. Mateescu, Ivan V. Bajic

Studying the Perceived Quality Variation over Time for Video Quality Assessment
Juan Vicente Talens-Noguera, Hantao Liu

Automatic Pronunciation Assistance on Video
Maria Pantoja

Effect of Subliminal Cueing on In-attentional Blindness
Deepti Pappusetty, Hari Kalva

Object vs. Objectless Motion
Matthew S. Seifert, Howard S. Hock

4:00 - 5:00  Interactive Panel

5:00 - 5:30  Concluding remarks

GeoMM 2014: 3rd ACM Multimedia Workshop on Geotagging and Its Applications in Multimedia
8:30 – 12:00
Location: Lanai

8:30 - 9:05  Keynote Talk: Martha Larson, Delft University of Technology, Netherlands
Geo-location Estimation for Social Multimedia: Towards New Notions of Geo-relevance
9:05 - 9:35  Keynote Talk: David Ayman Shamma, YAHOO!
*Place Recognition in Diverse Social Image Collection*

9:35 - 9:45  Spotlight presentation of accepted papers

*Collaborative Recommendation of Photo-taking Geolocations*
Thomas Phan, Jiayu Zhou, Shiyu Chang, Junling Hu, Juhan Lee

*User Profiling for Urban Computing: Enriching Social Network Trace Data*
Andrea Ferracani, Daniele Pezzatini, Alberto Del Bimbo

*Inferring Home Location from User’s Photo Collections Based on Visual Content and Mobility Patterns*
Danning Zheng, Tianran Hu, Quanzeng You, Henry Kautz, Jiebo Luo

*The Placing Task: A Large-scale Geo-estimation Challenge for Social Media Videos and Images*
Jaeyoung Choi, Bart Thomee, Gerald Friedland, Liangliang Cao, Karl Ni, Damian Borth, Benjamin Elizalde, Luke Gottlieb, Carmen Carrano, Roger Pearce, Doug Poland

*Social Media-based Profiling of Business Locations*
Francine Chen, Dhiraj Joshi, Yasuhide Miura, Tomoko Ohkuma

*Capture-time Classification of Mobile Sunset Photos Leveraging Strong Spatiotemporal Cues*
Ali Almajed, Matthew Boutell

9:45 - 11:00  Poster Presentations
11:00 - 11:30 Keynote talk: David Crandall, Indiana University, USA
*Place Recognition in Diverse Social Image Collections*

11:30 - 12:00 Keynote Talk: Mubarak Shah, University of Central Florida, USA
*Visual Geo-location and Location-aware Image Understanding*

**CrowdMM 2014: International Workshop on Crowdsourcing for Multimedia**

8:30 – 5:30
**Location: Magnolia**

8:30 – 10:00 Keynote: Nhatri Nguyen, Weblabcenter, Inc. – Texas, USA

*Crowdsourcing Challenges from Platform Provider’s Point of View*

10:30 – 12:00

**A Protocol for Cross-validating Large Crowdsourced Data: The Case of the LIRIS-ACCEDE Affective Video Dataset**
Yoann Baveye, Christel Chamaret, Emmanuel Dellandréa

*Modeling Image Appeal Based on Crowd Preferences for Automated Person-centric Collage Creation*
Vassilios Vonikakis, Ramanathan Subramanian, Jonas Arnfred, Stefan Winkler

**A Multi-task Learning Framework for Time-continuous Emotion Estimation from Crowd Annotations**
Mojtaba Khomami Abadi, Azad Abad, Ramanathan Subramanian, Negar Rostamzadeh, Elisa Ricci, Jagannadan Varadarajan, Nicu Sebe

**Crowdsourcing for Rating Image Aesthetic Appeal: Better a Paid or a Volunteer Crowd?**
Judith Redi, Isabel Povoa
2:00 – 3:30

*Development and Validation of Extrinsic Motivation Scale for Crowdsourcing Micro-task Platforms*
Babak Naderi, Ina Wechsung, Tim Polzehl, Sebastian Möller

*Users Tagging Visual Moments: Timed Tags in Social Video*
Peng Xu, Martha Larson

*Crowd-based Semantic Event Detection and Video Annotation for Sports Videos*
Fabio Sulser, Ivan Giangreco, Heiko Schuldt

*Getting by with a Little Help from the Crowd: Practical Approaches to Social Image Labeling*
Babak Loni, Jonathon Hare, Mihai Georgescu, Michael Riegler, Xiaofei Zhu, Mohamed Morchid, Richard Dufour, Martha Larson

*Microworkers Crowdsourcing Approach, Challenges and Solutions*
Nhatvi Nguyen

4:00 – 5:30

*Poster Session*

*Is that a Jaguar? Segmenting Ancient Maya Glyphs via Crowdsourcing*
Gulcan Can, Jean-Marc Odobez, Daniel Gatica-Perez

*Making Use of Semantic Concept Detection for Modelling Human Preferences in Visual Summarization*
Stevan Rudinac, Marcel Worring

*A Crowdsourcing Procedure for the Discovery of Non-obvious Attributes of Social Images*
Mark Melenhorst, María Menéndez Blanco, Martha Larson
A Crowdsourced Data Set of Edited Images Online
Valentina Conotter, Duc-Tien Dang-Nguyen, Michael Riegler, Guilia Boato, Martha Larson

Click’n’Cut: Crowdsourced Interactive Segmentation with Object Candidates
Axel Carlier, Vincent Charvillat, Amaia Salvador, Xavier Giro-i-Nieto, Oge Marques
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