

Program Details

April 10	
7:30-17:00	Registration
7:30-8:00	Breakfast
8:00-8:15	Welcome from Conference Chair
8:15-9:15	<p>Keynote: Dr. Ramesh Jain Title: Multimedia Health: Designing Personal Navigators</p> <p>Room: Monte Carlo 1 Session Chair: Shu-Ching Chen, Florida International University</p>
9:15-9:30	Break
9:30-11:00	<p>Multimedia Retreat I (sponsored by IEEE TCMC) Panel: Grand Challenges for Multimedia Moderator: Mohan Kankanhalli <i>Open to all attendees</i></p>
11:00-11:15	Coffee Break
11:15-12:15	<p>Multimedia Retreat II (sponsored by IEEE TCMC) Panel: Common Research Themes Across Grand Challenges Moderator: Mohan Kankanhalli <i>Open to all attendees</i></p>
12:15-13:15	Lunch
13:15-14:45	<p>Multimedia Retreat III (sponsored by IEEE TCMC) Panel: Create Software Infrastructure for Multimedia, Data Collection and Analysis at Internet Scale. Moderator: Yung-Hsiang Lu <i>Open to all attendees</i></p>
14:45-15:00	Coffee Break
15:00-16:00	<p>Multimedia Retreat IV (sponsored by IEEE TCMC) Panel: Roadmap and Actions Moderator: Shu-Ching Chen <i>Open to all attendees</i></p>
16:00-16:15	Break
16:15-17:30	<p>Feature Extraction and Object Detection Room: Monte Carlo 1 Session Chair: Chengcui Zhang, The University of Alabama at Birmingham, USA</p>
Regular Paper (20 min)	<p>Vehicle detection in UAV traffic video based on convolution neural network</p> <p>Shulin Li, Weigang Zhang, Guorong Li, Li Su, Qingming Huang</p> <p>Beijing University of Posts and Telecommunications, China Harbin Institute of Technology, China Institute of Computing, Chinese Academy of Sciences, China</p>

<p>Regular Paper (20 min)</p>	<p>Comparing Visual, Textual, and Multimodal Features for Detecting Sign Language in Video Sharing Sites</p> <p>Caio Duarte Diniz Monteiro; Frank Shipman; Ricardo Gutierrez-Osuna</p> <p>Texas A&M University, USA</p>
<p>Regular Paper (20 min)</p>	<p>Integrating Visual and Textual Affective Descriptors for Sentiment Analysis of Social Media Posts</p> <p>Shuanglu Dai; Hong Man</p> <p>Stevens Institute of Technology, USA</p>
<p>Poster paper (15 min)</p>	<p>Fast Vision-based Pedestrian Traffic Light Detection</p> <p>Xue-Hua Wu; Renjie Hu; Yu-Qing Bao</p> <p>Southeast University, China Nanjing Normal University, China</p>
<p>18:00-20:00</p>	<p>Welcome Reception</p>

April 11	
7:30-17:00	Registration
7:00-8:00	Breakfast
8:00-9:00	<p>Keynote: Dr. Klara Nahrstedt Title: Multi-Camera Content Delivery Systems: Challenges and Opportunities</p> <p>Room: Monte Carlo 1 Session Chair: Mei-Ling Shyu, University of Miami</p>
9:00-9:15	Break
9:15-10:45	Parallel Sessions 1
PS11	<p>Machine Learning and Data Mining I</p> <p>Room: Monte Carlo 1 Session Chair: Junqing Yu, Huazhong University of Science and Technology, China</p>
Regular paper (20 min)	<p>Ontology-Driven Hierarchical Deep Learning for Fashion Recognition</p> <p>Zhenzhong Kuang; Jun Yu; Zhou Yu; Jianping Fan</p> <p>Hangzhou Dianzi University, China University of North Carolina at Charlotte, USA</p>
Regular paper (20 min)	<p>Deep Learning of Path-based Tree Classifiers for Large-Scale Plant Species Identification</p> <p>Haixi Zhang; Zhenzhong Kuang; Jinye Peng; Xiaoyi Feng; Jianping Fan</p> <p>Northwestern Polytechnical University, China Hangzhou Dianzi University, China Northwestern University, China University of North Carolina at Charlotte, USA</p>
Regular Paper (20 min)	<p>Deep Structured Prediction: A New Formulation for Person Re-Identification</p> <p>Xinpeng L. Liao; Chengcui Zhang; Ming Dong; Xin Chen</p> <p>The University of Alabama at Birmingham, USA Wayne State University, USA Governor State University, USA</p>
Invited paper (20 min)	<p>Do They All Look the Same? Deciphering Chinese, Japanese and Koreans by Fine-Grained Deep Learning</p> <p>Yu Wang; Jiebo Luo</p> <p>University of Rochester, USA</p>
PS12	<p>Multimedia Retrieval I</p> <p>Room: Cannes Session Chair: Ju Wang, Virginia State University</p>

Regular paper (20 min)	PharmKi: A Retrieval System of Chemical Structural Formula Based on Graph Similarity Jingwei Qu; Xiaoqing Lu; Chengcui Zhang; Penghui Sun; Bei Wang; Zhi Tang Peking Univeristy, China The University of Alabama at Birmingham, USA
Regular paper (20 min)	DeepRailway: A Deep Learning System for Forecasting Railway Traffic Tianqi Xia, Xuan Song,Zipei Fan,Hiroshi Kanasugi, QuanJun Chen, Renhe Jiang, Ryosuke Shibasaki The University of Tokyo, Japan
Invited paper (20 min)	MMH: Multi-modal Hash for Instant Mobile Video Search Wenhui Gao; Xinchun Liu; Huadong Ma; Yanan Li; Xiaoyan Gu Beijing University of Posts and Telecommunications, China Chinese Academy of Sciences, China
Invited paper (20 min)	Multimedia Retrieval that Works Ramazan Aygun, Wanda Benesova University of Alabama at Huntsville, USA Slovak University of Technology in Bratislava, Slovakia
PS13	Multimedia Systems I Room: Nice Session Chair: Hong Man (Stevens Institute of Technology, USA)
Regular paper (20 minutes)	Analyzing Real-Time Multimedia Content from Network Cameras Using CPUs and GPUs in the Cloud Ahmed S Kaseb; Bo Fu; Anup Mohan; Yung-Hsiang Lu; Amy R. Reibman; George Thiruvathukal Cairo University, Egypt Purdue University, USA Loyola University Chicago, USA
Regular paper (20 minutes)	A Novel Objective Quality Assessment Method for Perceptually-Coded Cloud Gaming Video Saeed Shafiee Sabet; Mahmoud R. Hashemi; Shervin Shirmohammadi; Mohammad Ghanbari University of Tehran, Iran University of Ottawa, USA
Regular paper (20 minutes)	Buffer Management for Synchronous and Low-Latency Playback of Multi-Stream User-Generated Content Emmanouil Potetsianakis; Jean Le Feuvre Telecom ParisTech, Fance

Regular paper (20 minutes)	Game-Aware and SDN-Assisted Bandwidth Allocation for Data Center Networks Mary Amiri; Hussein Al Osman; Shervin Shirmohammadi University of Ottawa, Canada
10:45-11:00	Coffee Break
11:00-12:30	Parallel Session 2
PS21	Machine Learning and Data Mining II Room: Monte Carlo 1 Session Chair: Min Chen, University of Washington Bothell, USA
Invited paper (20 minutes)	Personalizing a Generic ECG Heartbeat Classification for Arrhythmia Detection: A Deep Learning Approach Jake Wu; Emily Chang; Edward Y Chang HTC Research & Healthcare, Taiwan Dynamical Biomarkers Group HTC Research & Healthcare, Taiwan
Invited paper (20 minutes)	Generative Sensing: Transforming Unreliable Sensor Data for Reliable Recognition Lina Karam; Tejas Borkar; Yu Cao; Junseok Chae Arizona State University, USA
Invited paper (20 minutes)	Sequential Deep Learning for Disaster-Related Video Classification Haiman Tian; Hector Cen Zheng; Shu-Ching Chen Florida International University, USA
Invited paper (20 minutes)	Dynamic Sampling in Convolutional Neural Networks for Imbalanced Data Classification Samira Pouyanfar; Yudong Tao; Anup Mohan; Haiman Tian; Ahmed S Kaseb; Kent Gauen; Ryan Dailey; Sarah Aghajanzadeh; Yung-Hsiang Lu; Shu-Ching Chen; Mei-Ling Shyu Florida International University, USA University of Miami, USA Purdue University, USA Cairo University, Egypt
PS22	Multimedia Interfaces and Human-Computer Interactions Room: Cannes Session Chair: Chengcui Zhang, University of Alabama at Birmingham, USA
Invited paper (20 minutes)	Who is Earning? Understanding and Modeling the Virtual Gifts Behavior of Users in Live Streaming Economy

	Wei Tu; Chen Yan; Yiping Yan; Xu Ding; Lifeng Sun Tsinghua University, China
Invited paper (20 minutes)	A New TV World for Kids – When ZUI Meets Deep Learning Haohong Wang; Yaoyuan Fu; Yang Li; Guanghan Ning; Zhihai He; Mengwen Liu TCL Research America, USA University of Missouri, USA Amazon.com, Inc., USA
Invited paper (20 minutes)	Audio based Handwriting Input for Tiny Mobile Devices Tuo Yu; Haiming Jin; Klara Nahrstedt University of Illinois at Urbana-Champaign, USA
Invited paper (20 minutes)	Immersive, Social Applications for 8K Displays V. Michael Bove Massachusetts Institute of Technology, USA
PS23	Workshop: Multimodal Representation, Retrieval, and Analysis of Multimedia Content (MR2AMC) I Room: Nice Session Chair: Dr. Debanjan Mahata, University of Arkansas at Little Rock
Keynote (60 min)	Keynote: Dr. Rada Mihalcea, University of Michigan Title: Multimodal Sensing of Human Behavior
MR2AMC_1 (15 minutes)	The Impact of multi-optimizers and Data Augmentation on TensorFlow Convolutional Neural Network Performance Arwa Mohammed Taqi; Ahmed Awad; Mariofanna Milanova; Fadwa Al-Azzo University of Arkansas at Little Rock, USA
MR2AMC_2 (15 minutes)	Entity Resolution using Logistic Regression as an extension to the Rule-Based Oyster System Fumiko Kobayashi; Aziz Eram; John Talburt University of Arkansas at Little Rock, USA
12:30-13:30	Lunch
13:30-14:30	Keynote: Dr. Edward Y. Chang Title: Representation Learning on Big and Small Data Room: Monte Carlo 1

	Session Chair: Yung-Hsiang Lu, Purdue University
14:30-14:45	Coffee Break
14:45-16:15	Parallel Session 3
PS31	Special Session: Low-Power Image Recognition Room: Monte Carlo 1 Session Chair: Abdulmotaleb El Saddik (University of Ottawa, Canada)
Demo paper (15 minutes)	Lightweight Convolutional Neural Networks for Real-Time On-Road Object Detection Hakil Kim; Byunghak Yim; Bin Yang Inha University, South Korea
Invited Presentation 1 (20 minutes)	A Spatio-Temporal Computing-Enabled Spiking Neuromorphic Architecture for Low-Power Edge Devices Tao Liu (ECE, Florida International University), Yiran Chen (Duke University), Wujie Wen (Florida International University)
PS32	Machine Learning and Data Mining III Room: Cannes Session Chair: Mehmet Vurkaç, Seattle University, USA
Invited Paper (20 min)	Scalable Logo Detection and Recognition with Minimum Labeling Daniel Mas Montserrat; Qian Lin; Jan Allebach; Edward J. Delp Purdue University, USA HP
Short Paper (15 min)	Multimodal Image Captioning for Marketing Analysis Philipp Harzig; Stephan Brehm; Rainer Lienhart; Carolin Kaiser; René Schallner University of Augsburg, Germany GfK Verein, Germany
Short Paper (15 min)	Joint Estimation of Age and Gender from Unconstrained Face Images using Lightweight Multi-task CNN for Mobile Applications Jia-Hong Lee; Yi-Ming Chan, Ting-Yen Chen, Chu-Song Chen Academia Sinica, Taiwan
Short Paper (15 min)	GeoSClean: Secure Cleaning of GPS Trajectory Data using Anomaly Detection Vikram Patil; Priyanka Singh; Shivam Parikh; Pradeep K. Atrey State University of New York at Albany, USA

	Indian Institute of Technology Roorkee, India
Short Paper (15 min)	Affective Visual Question Answering Network Nelson Ruwa; Qirong Mao; Ming Dong Jiangsu University, China Wayne State University, USA
PS33 (14:45-16:25)	Workshop: Multimodal Representation, Retrieval, and Analysis of Multimedia Content (MR2AMC) II Room: Nice Session Chair: Dr. Debanjan Mahata, University of Arkansas at Little Rock
(18 minutes)	Baysian Regularization based ANN for the Design of Flexible Antenna for UWB Wireless Applications Ali Hammoodi; Fadwa Al-Azzo; Mariofanna Milanova; Haider Raad University of Arkansas, USA Xavier University, USA
(18 minutes)	Quantitative Analysis of Renal Fibrosis using a Colorimetric System Cassandra Reed; Shree Sharma; Sandra Prieto; Timothy Muldoon University of Arkansas, USA
(18 minutes)	Theme-weighted Ranking of Keywords from Text Documents using Phrase Embeddings Debanjan Mahata; John Kuriakose; Rajiv Ratn Shah; Roger Zimmermann; John Talburt University of Arkansas at Little Rock, USA InfoSys, USA Indraprastha Institute of Information Technology - Delhi, India National University of Singapore, Singapore
(18 minutes)	A Multimodal Approach to Predict Social Media Popularity Mayank Meghawat; Satyendra Yadav; Debanjan Mahata; Yifang Yin; Rajiv Ratn Shah; Roger Zimmermann National Institutes of Technology - Ahmedabad, India Delhi Technological University, India University of Arkansas at Little Rock, USA National University of Singapore, Singapore Indraprastha Institute of Information Technology - Delhi, India
(18 minutes)	Self-Attentive Feature-level Fusion for Multimodal Emotion Detection Devamanyu Hazarika; Sruthi Gorantla; Soujanya Poria; Roger Zimmermann National University of Singapore, Singapore Indian Institute of Science, India

16:15-16:30	Break
16:30-17:30	Demo and Poster Session Room: Foyer Session Chair: Ramazan Ayun (University of Alabama at Huntsville, USA)
Demo paper	Lightweight Convolutional Neural Networks for Real-Time On-Road Object Detection Hakil Kim; Byunghak Yim; Bin Yan Inha University, South Korea
Demo paper	What is going on in the world? A display platform for media understanding Delia Fernandez; Elisenda Bou; Xavier Giro-i-Nieto Polytechnic University of Catalonia, Spain Vilynx, Spain
Demo paper	A Standalone Demo for Quiz Game "Describe and Guess" Yikun Sheng; Xiaoshan Yang; Changsheng Xu HeFei University of Technology, China Chinese Academy of Sciences Institute of Automation, China
Demo paper	Extracting Typical Domain Keywords from Annual Reports of Listed Company Zhaohui Chao; Lin Li Wuhan University of Technology, China
Demo paper	Multi-types Court E-File Classification System Wei Duan; Lin Li Wuhan University of Technology, China
Poster Paper	Ownership Identification and Signaling of Multimedia Content Components Luntian Mou Beijing University of Technology, China
Poster Paper	Fast Vision-based Pedestrian Traffic Light Detection Xue-Hua Wu; Renjie Hu; Yu-Qing Bao Southeast University, China Nanjing Normal University, China
Poster Paper	Automatic Feature Subset Selection for Clustering Images using Differential Evolution Sesha Srinivas Vangipuram; Srikrishna Atluri; Eswara Reddy B

	Rayapati Venkata Ragarao and Jagarlamudi Chndramouli College of Engineeing, India Jawaharlal Nehru Technological University, India
Industrial Poster Paper	The Bring Your Own Device Trend In An Oil And Gas Sector INIABASI EPHRAIM EKPO; Habib Ullah Khan; Sheila D. Fournier-Bonilla University of Liverpool, UK Qatar University, Qatar LLUMNO LNC
Industrial Poster Paper	An Investigation into The Effect Of Implementing An Integrated It System In A Multi-Location Healthcare Diaa Eldin ELSaied; Habib Ullah Khan; Sheila D. Fournier-Bonilla Magrabi hospitals and centers Qatar University, Qatar LLUMNO LNC
18:30-20:30	Banquet and Award Ceremony

April 12	
8:00-15:00	Registration
7:30-8:00	Breakfast
8:00-9:00	<p>Keynote: Dr. Chang Wen Chen Title: Intelligent Multimedia Delivery in 5G Mobile Networks</p> <p>Room: Monte Carlo 1 Session Chair: Mei-Ling Shyu, University of Miami</p>
9:00-9:15	Break
9:15-10:45	Parallel Sessions 4
PS41	<p>Workshop: Multimedia Pragmatics: A Cross-Fertilization of Content-Based Retrieval and Natural Language Processing I (MMPrag I)</p> <p>Room: Monte Carlo 1 Session Chair: William Grosky (University of Michigan, USA)</p>
Keynote (60 min)	<p>Keynote: Dr. Mohamed Abouelenien (University of Michigan-Dearborn) Title: Understanding and Modeling Human Behavior Using a Multimodal Approach</p>
Short paper (16 min)	<p>Information Retrieval and Recommendation using Emotion from Speech Signals</p> <p>Alexander Iliev, Peter Stanchev</p> <p>University of Wisconsin-Stevens Point, USA Kettering University, USA</p>
PS42	<p>Multimedia Content Understanding and Analytics I</p> <p>Room: Cannes Session Chair: Pedro Silva (University of California, Irvine, USA)</p>
Regular paper (20 min)	<p>Understanding Human Aging Patterns from a Machine Perspective</p> <p>Shixing Chen; Ming Dong</p> <p>Wayne State University, USA</p>
Regular paper (20 min)	<p>COME for No Reference Video Quality Assessment</p> <p>Chunfeng Wang; Li Su; Weigang Zhang</p> <p>University of Chinese Academy of Sciences, China Harbin Institute of Technology, China</p>
Invited paper (20 min)	<p>Multi-Pose Learning based Head-Shoulder Re-identification</p> <p>Jia Li; Yunpeng Zhai; Yaowei Wang; Yemin Shi; Yonghong Tian</p> <p>Perking University, China</p>

	Beijing University of Posts and Telecommunications, China Beijing Institute of Technology, China
Invited paper (20 min)	Soccer Fans Sentiment Through The Eye of Big Data:The UEFA Champions League as a Case Study Samah Aloufi; Fatimah Alzamzami; Mohamad Hoda; Abdulmotaleb El Saddik University of Ottawa, Canada
PS43	Machine Learning and Data Mining IV Room: Nice Session Chair: Hsin-Yu Ha, Florida International University, USA
Invited paper (20 min)	Statistical Machine Learning vs Deep Learning in Information Fusion: Competition or Collaboration? Ling Guan; Lei Gao; Nour El Madany; Chengwu Liang Ryerson University, Canada Zhengzhou University, China
Invited paper (20 min)	Can you tell a face from a HEVC bitstream? Saeed Ranjbar Alvar; Hyomin Choi; Ivan Bajic Simon Fraser University, Canada
Regular paper (20 min)	Embedding User Behavioral Aspect in TF-IDF like Representation Ligaj Pradhan, Chengcui Zhang, Xin Chen, Steven Bethard University of Alabama at Birmingham, USA Governors State University, USA University of Arizona, USA
Poster paper (15 min)	Automatic Feature Subset Selection for Clustering Images using Differential Evolution Sesha Srinivas Vangipuram; Srikrishna Atluri; Eswara Reddy B R V R & J C College of Engineering, India JNTUA College of Engineering, India
WACI paper (15 min)	Exploring Facial Differences in European Countries Boundary by Fine-tuned Neural Networks Viet-Duy Nguyen; Minh Tran; Jiebo Luo University of Rochester, USA
10:45-11:00	Coffee Break

11:00-12:30	Parallel Sessions 5
PS51	Workshop: Multimedia Pragmatics: A Cross-Fertilization of Content-Based Retrieval and Natural Language Processing II (MMPrag II) Room: Monte Carlo 1 Session Chair: Peter Stanchev, Kettering University
(20 min)	Having the Best of Both Worlds: Exploring Coherence in Visual Explanations Malihe Alikhani (Rutgers University, USA) and Matthew Stone (Rutgers University, USA)
(20 min)	Using Thermal Images and Physiological Features to Model Human Behavior: A Survey FULL Christian Hessler (University of Michigan-Dearborn, USA) and Mohamed Abouelenien (University of Michigan-Dearborn, USA)
(20 min)	Beyond Big Data of Human Behaviors: Modeling Human Behaviors and Deep Emotions James Deng (Hong Kong Applied Science and Technology Research Institute, Hong Kong), Clement Leung (Beijing Normal University, China and Hong Kong Baptist University, Hong Kong) and Kristen Li (Hong Kong Baptist University, Hong Kong)
PS52	Multimedia Content Understanding and Analytics II Room: Cannes Session Chair: Ling Guan, Ryerson University, Canada
Invited paper (20 min)	Attribute-assisted Domain Transfer from Image to Sketch Yikun Sheng; Xiaoshan Yang; Xueliang liu; Changsheng Xu HeFei University of Technology , China Chinese Academy of Sciences Institute of Automation, China
Invited paper (20 min)	CycleGANs Based Social Image Stylization by Emotion Jie Nie; Lei Huang; Zhen Li; Meng Yuan; Zhiqiang Wei Ocean University of China, China
Short Paper (15 min)	Predictive Real-Time Beat Tracking from Music for Embedded Application Irfan Al-Hussaini; Ahmed Imtiaz Humayun; Shariful Islam Foysal; Samiul Alam; Abdullah Al Masud; Arafat Mahmud; Rakibul Islam Chowdhury; Nabil Ibtehaz; Sums Uz Zaman; Rakib Hyder; Sayeed Shafayet Chowdhury; Mohammad Ariful Haque Bangladesh University of Engineering and Technology, Bangladesh
Short paper (15 min)	MPEG CDVS Feature Trajectories for Action Recognition in Videos Radhakrishna Dasari; Chang Wen Chen State University of New York at Buffalo, USA

WACI paper (15 min)	Object-centric Scene Understanding for Image Memorability Prediction Sejong Yoon; Jongpil Kim The College of New Jersey, USA Bloomberg L.P. , USA
PS53	Multimedia Data Management Room: Cannes Session Chair: Yi-Ming Chan, Academia Sinica
Regular paper (20 min)	Client Side Secure Image Deduplication Using DICE Protocol Ashish Agarwala; Pradeep K. Atrey State University of New York at Albany, USA
Invited paper (20 min)	Comprehensive Dataset of Broadcast Soccer Videos Junqing Yu; Aiping Lei; Zikai Song; Tingting Wang; Hengyou Cai; Na Feng Huazhong University of Science & Technology, China
Poster paper (15 min)	Ownership Identification and Signaling of Multimedia Content Components Luntian Mou Beijing University of Technology, China
12:30-13:30	Lunch
13:30-14:30	Keynote: Dr. Wen Gao Title: Digital Retina: A New Feature Surveillance Device for Smart City Room: Monte Carlo 1 Session Chair: Shu-Ching Chen, Florida International University, USA
14:30-14:40	Coffee Break
14:40-16:00	Parallel Sessions 6
PS61	Multimedia Retrieval II Room: Monte Carlo 1 Session Chair: Jianquan Liu, NEC Corporation
Invited paper (20 min)	Subjective Evaluation of Vector Representation of Emotion Flow for Music Retrieval Chia-Hao Chung; Ming-I Yang; Homer Chen National Taiwan University, Taiwan
Invited paper (20 min)	A Saliency Guided Shallow Convolutional Neural Network for Traffic Signs Retrieval Jing Zhang; Xi Liang; Qi Tian ; Li Zhuo

	<p>Beijing University of Technology, China</p> <p>The University of Texas at San Antonio, USA</p>
Short paper (15 min)	<p>A Context-Aware Nonnegative Matrix Factorization Framework for Traffic Accident Risk Estimation via Heterogeneous Data</p> <p>Quanjun Chen; Xuan Song; Zipei Fan; Tianqi Xia; Harutoshi Yamada; Ryosuke Shibasaki</p> <p>The University of Tokyo, Japan</p>
Short paper (15 min)	<p>Multi-Vehicle Motion Planning with continuous Vision Pipeline in Search and Rescue</p> <p>Ju Wang; Wei-Bang Chen; Vitalis Temu</p> <p>Virginia State University, USA</p>
PS62	<p>Multimedia Systems II</p> <p>Room: Cannes</p> <p>Session Chair: Roger Zimmermann, National University of Singapore</p>
Invited paper (20 min)	<p>DUPLEX: An architecture for a Data-Universal Plane for Information EXchange</p> <p>Cedric Westphal</p> <p>University of California, Santa Cruz, USA</p>
Invited paper (20 min)	<p>Automated Objective and Subjective Evaluation of HTTP Adaptive Streaming Systems</p> <p>Christian Timmerer; Anatoliy Zabrovskiy; Ali Begen</p> <p>Alpen-Adria-Universitaet Klagenfurt, Austria</p> <p>Petrozavodsk State University, Russia</p> <p>Ozyegin University, Turkey</p>
Short paper (15 min)	<p>Determining the Necessary Frame Rate of Video Data for Object Tracking under Accuracy and Cost Constraints</p> <p>Anup Mohan; Ahmed S Kaseb; Kent Gauen; Yung-Hsiang Lu; Amy R. Reibman; Thomas Hacker</p> <p>Intel Corporation, USA</p> <p>Cairo University, Egypt</p> <p>Purdue University, USA</p>
PS63	<p>Workshop: Fake Multimedia I</p> <p>Room: Nice</p> <p>Session Chair: Pradeep Atrey, State University of New York at Albany, USA</p>
(5 min)	Welcome note

(35 min)	<p>Keynote: Lilli Levi (University of Miami) Title: Fake News and Press Delegation: A Legal Lens</p>
(20 min)	<p>A Taxonomy of Audiovisual Fake Multimedia Content Creation Technology Ali Khodabakhsh; Raghavendra Ramachandra; Christoph Busch</p> <p>Norwegian University of Science and Technology, Norway</p>
(20 min)	<p>Automatic JPEG Grid Detection with Controlled False Alarms, and Its Image Forensic Applications Tina Nikoukhah; Rafael Grompone von Gioi; Miguel Colom; Jean-Michel Morel</p> <p>French National Center for Scientific Research, France Universite Paris-Saclay, France</p>
16:00-16:10	Break
16:10-17:30	Parallel Sessions 7
PS71	<p>Novel Applications (forensics and security) Room: Monte Carlo 1 Session Chair: Ming Dong (Wayne State University, USA)</p>
Regular paper (20 min)	<p>SecMed: A secure approach for proving rightful ownership of medical images in encrypted domain over cloud Aishwary Pandey; NISHANT AGARWAL; R Balasubramanian</p> <p>Indian Institute of Technology, India University of Southern California, USA Indian Institute of Technology Roorkee, India</p>
Invited paper (20 min)	<p>Fast Compressed Domain Copy Detection with Motion Vector Imaging Yuanyuan Yang; Yixiong Zou; Yemin Shi; Qingsheng Yuan; Yaowei Wang; Yonghong Tian</p> <p>Beijing University of Posts and Telecommunications, China Peking University, China University of Chinese Academy of Sciences, China Beijing Institute of Technology, China</p>
Industrial Paper (18 min)	<p>SecureCMerge: Secure PDF Merging Over Untrusted Servers Neha Sharma; Priyanka Singh; Pradeep K. Atrey</p> <p>University at Albany, State University of New York, USA.</p>
Short Paper	Improving Malware Detection Accuracy by Extracting Icon Information

(15 min)	<p>Pedro Silva; Sepehr Akhavan Masouleh; Li Li</p> <p>University of California, Irvine, USA</p> <p>Cylance, Inc., USA</p>
PS72	<p>Multimedia and Vision</p> <p>Room: Cannes</p> <p>Session Chair: Anup Mohan (Intel)</p>
Regular paper (20 min)	<p>Power Constrained Contrast Enhancement by Joint L2,1-norm Regularized Sparse Coding for OLED Display</p> <p>En-Hung Lai; Bo-Hao Chen; Ling-Feng Shi</p> <p>Yuan Ze University, Taiwan</p>
Invited paper (20 min)	<p>A Multi-View Pedestrian Tracking Framework Based on Graph Matching</p> <p>Fanyi Duanmu; Xin Feng; Xiaoqing Zhu; Wai-tian Tan; Yao Wang</p> <p>New York University, China</p> <p>Chongqing University of Technology, China</p> <p>Cisco Systems, USA</p>
Invited paper (20 min)	<p>Robust Surface Light Field Modeling</p> <p>Wei Li; Hui Qiao</p> <p>Baidu, Inc., China</p>
Invited paper (20 min)	<p>A Novel Approach of Multiple Objects Segmentation based on Graph Cut</p> <p>Jiyang Dong; Jian Xue; Shuqiang Jiang; Ke Lu</p> <p>University of Chinese Academy of Science, China</p> <p>Institute of Computing Technology of the Chinese Academy of Sciences, China</p>
PS73	<p>Workshop: Fake Multimedia II</p> <p>Room: Nice</p> <p>Session Chair: Francesco Marra, University Federico II of Naples, Italy</p>
(20 min)	<p>Detection of GAN-Generated Fake Images over Social Networks</p> <p>Francesco Marra, Diego Gragnaniello, Davide Cozzolino, Luisa Verdoliva</p> <p>University Federico II of Naples, Italy</p>
(20 min)	<p>Automatic Detection of Demosaicing Image Artifacts and Its Use in Tampering Detection</p> <p>Quentin Bamme, Jean-Michel Morel, Rafael Grompone von Gioi</p>

	École normale supérieure Paris-Saclay, France
(20 min)	Understanding User Profiles on Social Media for Fake News Detection Kai Shu, Suhang Wang, Huan Liu Arizona State University, USA.
(20 min)	Media-Rich Fake News Detection - An Insight Shivam Parikh, Pradeep K. Atrey University at Albany, State University of New York, Albany, USA.