Program at a Glance

Room Don 8:00-8:30 8:30-9:30 9:30-9:50 Cont Underst 9:50-11:50 Mode Manage and Retr 11:50-12:50	Keynote (1): Rantent anding, eling, ement, rieval (I)	mesh Jair workshop	Santa Clara Break n (Donner) Coffee I Best Paper Session I	Keynote (3)	San Jose : Pradeep Dubey (I	Santa Clara Donner)
8:30–9:30 9:30-9:50 Cont Underst 9:50-11:50 Mode Manage and Retr	tent anding, eling, ement, rieval (I)		n (Donner) Coffee I Best Paper	Keynote (3) Break		Donner)
9:30-9:50 Cont Underst 9:50-11:50 Manage and Retr	tent anding, eling, ement, rieval (I)		Coffee I Best Paper	Break		Donner)
9:50-11:50 Cont Underst Mode Manage and Retr	anding, eling, ement, rieval (I)	vorkshop	Best Paper		Multimedia	
9:50-11:50 Underst Mode Manage and Retr	anding, eling, ement, rieval (I)	vorkshop		Multimedia Data	Multimedia	
11:50–12:50	1		368810111	Mining and Deep Learning	Streaming, Networking, and QoS (II)	3D Data, Graphics, and Retrieval (II)
1.100 12.00	L	unch		Lunch & TCMC and TCSEM Joint Meeting (Welcome to all attendees) <i>Donner</i>		
12:50–13:50 Key	note (2): Apostol	(Paul) Na	atsev (Donner)	Keynote (4)	: Ruzena Bajcsý (D	onner)
Cont Underst 14:00–16:00 Mode Manage and Retr	tent anding, eling, ement, and (media aming, orking, QoS (I)	Best Paper Session II	Content Understanding, Modeling, Management, and Retrieval (III)	Media Coding, Processing, and Quality Measurement (I)	Multimedia Security and Forensics
16:00–16:20	, , ,		Coffee I	Break		
Med Sema 16:20–18:00 Ontologi Persona (I	ntics, Seme les, and Ontolog alization Person	antics, gies, and	Combined Session: 1. 3D Data, Graphics Retrieval (I) 2. Mobile Multimedia Search		r and Demo Sessic Siskiyou and the Fo	
19:00–21:00	Welcome Rec	ception (S	iskiyou)		ward Ceremony (S peaker: Max Mühlh	
Time/Day		Tues	day (Dec. 13) Regis	tration 8am - 12n	oon	
Room	Donner		San Jose	Santa Clara	Sis	kiyou
8:00-8:30			Break	fast		
8:30–9:30			Keynote (5): Jan P. <i>i</i>	Allebach (Donner)		
9:30-9:50			Coffee I	Break		
Q·50-11·50	nedia and Web nterfaces		Coding, Processing, ality Measurement (II)	MTEL Workshop Industrial Progr		
11:50–12:50			Lund			
12:50–13:50 Panel: I			eep Learning, and Cedia research? (Don		ence	
14:00–16:00	Multimedia Social Network Media 0 and Qu		Coding, Processing, iality Measurement (III)	Systems and Architectures	13:30	– 17:30 Multimedia
16:00–16:20					(BAMMF)	
1. Multin 16:20–18:00 and D	2. Networking and QoS		DeMP Workshop	Gaming and Viri Reality	Bay Area	Multimedia (BAMMF)

Program Details

December 11 (Sunday)		
8:00-16:00	Registration	
8:00-8:30	Breakfast and Welcome from Conference Chair	
8:30-9:30	Keynote (1): Dr. Ramesh Jain Title: Computing Lifestyle for Controlling Health Room: Donner	
	Session Chair: Mohan Kankanhalli	
9:30-9:50	Coffee Break	
9:50-11:50	Session 1	
	Content Understanding, Modeling, Management, and Retrieval (I)	
Parallel Session 1	Room: Donner Session Chair: Min Chen	
Regular paper 33	Renata Khasanova*, EPFL; Xiaowen Dong, MIT; Pascal Frossard, EPFL	
(25 minutes)	Multi-modal image retrieval with random walk on multi-layer graphs	
Regular paper 97 (25 minutes)	Wallapak Tavanapong*, Chuanhai Zhang, Lei Qi, Adisak Sukul, David Peterson Iowa State University, USA	
(23 minutes)	Automated Coding of Political Video Ads for Political Science Research	
Regular paper 151 (25 minutes)	Yuhui Wang*, Christian Weth, Yehong Zhang, Kian Hsiang Low, Vivek Singh, Mohan Kankanhalli National University of Singapore, Singapore	
	Concept-based Hybrid Fusion of Multimodal Event Signals	
Regular paper 63 (25 minutes)	Gustavo Blanco*, Marcos V. N. Bedo, Mirela T. Cazzolato, Lucio F. D. Santos, Ana Elisa Serafim Jorge, Agma J. M. Traina, Paulo M. Azevedo-Marques, Caetano Traina Jr. Universidade de São Paulo	
	A Label-Scaled Similarity Measure for Content-Based Image Retrieval	
Short paper 59 (15 minutes)	Lucio Dutra Santos*, Luiz Olmes Carvalho, Marcos Vinicius Naves Bedo, Agma Traina, Caetano Traina Jr. USP	
,	When Similarity is Not Enough, Ask for Diversity: Grouping Elements Based on Influence	
	MIPR Workshop on Multimedia Information Processing and Retrieval	
Parallel Session 1	Room: San Jose	
	Session Chair: Mei-Ling Shyu Tzu-Hsiang Huang, Pao-Chi Chang	
MIPR-1		
(16 minutes)	LARGE-SCALE COVER SONG RETRIEVAL SYSTEM DEVELOPED USING MACHINE LEARNING APPROACHES	
MIPR-2	Hesham Farouk, Kamal A. ElDahshan, Amr Abozeid	
(16 minutes)	Context-aware joint Video Summarization and Streaming (CVSS) Approach	

MIPR-3	Ching-Hua Chuan, Elaine Chew
(16 minutes)	An Optimization-based Approach to Key Segmentation
MIPR-4	Yukhe Lavinia, Holly H. Vo, Abhishek Verma
(16 minutes)	Fusion Based Deep CNN for Improved Large-Scale Image Action Recognition
MIPR-5 (16 minutes)	Amir Mazaheri, Boqing Gong, and Mubarak Shah
	Learning a Multi-concept Video Retrieval Model with Multiple Latent Variables
MIPR-6	Ziqi Zhu, Li Zhuo, Panling Qu, Kailong Zhou, Jing Zhang
(16 minutes)	Extreme Weather Recognition using Convolutional Neural Networks
MIPR-13	Fu-Hai Frank Wu
(16 minutes)	An Evaluation Framework of Optical Music Recognition in Numbered Music Notation
	Best Paper Session I
Parallel Session 1	Room: Santa Clara
	Session Chair: Shervin Shirmohammadi
Regular paper 31	Amandianeze Nwana*, Tsuhan Chen Cornell University
(25 minutes)	QUOTE: "Querying" Users as Oracles in Tag Engines A Semi-Supervised Learning
	Approach to Personalized Image Tagging
Regular paper 48 (25 minutes)	Dekui Ma*, Dalian University of Technology; Jian Liang, National Laboratory of Pattern Recognition; Xiangwei Kong, Dalian University of Technology; Ran He, Institute of Automation, Chinese Academy of Sciences; Ying Li, Dalian University of Technology
	Discrete Cross-Modal Hashing for Efficient Multimedia Retrieval
Regular paper 112	Ryota Hinami*, The University of Tokyo; Shin'ichi Satoh, National Institute of Informatics
(25 minutes)	Audience Behavior Mining by Integrating TV Ratings with Multimedia Contents
Regular paper 153	Norio Katayama*, Hiroshi Mo*†, and Shin'ichi Satoh National Institute of Informatics, Japan
(25 minutes)	Unsupervised Estimation of Video Continuity Model from Large-Scale Video Archives and Its Application to Shot Boundary Detection
11:50-12:50	Lunch
	Keynote (2): Dr. Apostol (Paul) Natsev
12:50-13:50	Title: Teaching Machines to Watch and Listen: Video Understanding at YouTube and Google
12.30 13.30	Room: Donner
	Session Chair: Mei-Ling Shyu
14:00-16:00	Session 2
	Content Understanding, Modeling, Management, and Retrieval (II)
Parallel Session 2	Room: Donner
	Session Chair: Min Chen
Regular paper 98	Sarathkrishna Swaminathan, Wreetabrata Kar*, Viswanathan Swaminathan Adobe
(25 minutes)	Audience Validation from Demographic Mix and Insufficient Individual Data

	Denny Stohr*, Stefan Wilk, Iva Toteva, Wolfgang Effelsberg, Ralf Steinmetz
Invited paper 177 (25 minutes)	TU-Darmstadt
	Context not Content: A Novel Approach to Real-Time User-Generated Video Composition
Invited paper 179 (25 minutes)	Yu Wang, Yang Feng, Jiebo Luo*, University of Rochester
	Xiyang Zhang, Beijing Normal University
	Voting with Feet: Who are Leaving Hillary Clinton and Donald Trump?
Invited paper 185 (25 minutes)	Yong Liu*, Hao Ding, NYU
	Jia Huang, Drexel University
	Houwei Cao, New York Institute of Technology
	,
	Improving Cold Music Recommendation through Hierarchical Audio Alignment
Short paper 84	lei yang*, Samuel Cheng, Pramode K. Verma, University of Oklahoma
(15 minutes)	Shuang Wang, University of California, San Diego
,	Text Search: Towards Fast Text Localization in Scene Images
	Multimedia Streaming, Networking, and QoS (I)
Parallel Session 2	Room: San Jose
	Session Chair: Yang Lei (HP Labs)
	Yago Sanchez de la Fuente*, Dimitri Pwdborski, Cornelius Hellge, Thomas Schierl
Regular paper 152	Fraunhofer HHI
(25 minutes)	Shifted IDR Representations for Low Delay Live DASH Streaming using HEVC Tiles
	TRIKI Imen*, Elazouzi Rachid, Haddad Majed
D 1 02	University of Avignon
Regular paper 83	
(25 minutes)	Anticipating Resource Management and QoE for Mobile Video Streaming under Imperfect
	Prediction
Invited paper 176	Zheng Lu*, Sangeeta Ramakrishnan, Xiaoqing Zhu
(25 minutes)	Cisco Systems
(20 111111111111)	Exploiting Video Quality Information in Rate Adaptation for HTTP-based Video Streaming
C1 4 120	Mohammad Hosseini*, Adobe Research, UIUC
Short paper 138	Viswanathan Swaminathan, Adobe
(15 minutes)	Adaptive 360 VR Video Streaming: Divide and Conquer!
	Rintaro Harada*, Shintaro Saika, Masaru Takeuchi, Kenji Kanai, Waseda University
	Yasutaka Matsuo, NHK
Poster paper 38	Jiro Katto, Waseda University
(15 minutes)	Quality Evaluations of 8K/60P UHDTV Retransmission for a Broadcasting and
	Communication Integrated Platform
	Best Paper Session II
Parallel Session 2	
	Room: Santa Clara Session Chair: Shervin Shirmohammadi
Regular paper 118 (25 minutes)	Stefano D'Aronco*, EPFL
	Laura Toni, UCL
	Pascal Frossard, EPFL
(23 minutes)	
	Price-based Controller for Quality-Fair HTTP Adaptive Streaming Ryan Janzen*, Steve Mann
Regular paper 91 (25 minutes)	University of Toronto
	Feedback Control System for Exposure Optimization in High-Dynamic-Range Multimedia

	Sensing
Regular paper 40 (25 minutes)	Lingchao Kong*, Rui Dai University of Cincinnati
	Temporal-Fluctuation-Reduced Video Encoding for Object Detection in Wireless Surveillance Systems
16:00-16:20	Coffee Break
16:20-18:00	Session 3
Parallel Session 3	Media semantics, ontologies, and personalization (I) Room: Donner Session Chair: Tong Zhang (Intel)
Regular paper 95 (25 minutes)	Marcio Moreno*, Rafael Brandao, Renato Cerqueira IBM Extending hypermedia conceptual models to suport hyperknowledge specifications
Invited paper 187 (25 minutes)	Wenjie Zhu, Yiling Xu*, Shanghai Jiao Tong University Zhu Li, University of Missouri-Kansas city Light Reference Video Quality Estimation with Embedding of Compact Features
Short paper 116 (15 minutes)	Shuanglu Dai*, Xingzhong Xu, Bitian Jiang, Hong Man Stevens Institute of Technology Multiscale Sentiment Classification Using Canonical Correlation Analysis on Riemannian Manifolds
Short paper 143 (15 minutes)	Marcio Moreno*, Rafael Brandao, Juliana Jansen Ferreira, Ana Fucs, Renato Cerqueira IBM Towards a Conceptual Model for Cognitive-Intensive Practices
Parallel Session 3	Media semantics, ontologies, and personalization (II) Room: San Jose Session Chair: Xiaofan Lin (A9)
Invited paper 184 (25 minutes)	Panchanathan Sethuraman*, Shayok Chakrabotry, Troy McDaniel, Matt Bunch Arizona State University Noel O'Connor, Suzanne Little, Kevin McGuinness, Mark Marsden Dublin City University
Invited paper 188 (25 minutes)	Smart Stadium for Smarter Living: Enriching the Fan Experience Tarek Elgamal*, Klara Nahrstedt, Shannon Chen University of Illinois at Urbana-Champaign
Invited paper 183 (25 minutes)	Physical Relationship Description for Cyber-Physical Multi-Modal Sensory Environments Dick Bulterman*, Vrije Universiteit and CWI Deep Tweaking: Thoughts on Measuring Audience Engagement
Short paper 121	Ryosuke Shigenaka*, Yukihiro Tsuboshita, Noriji Kato Fuji Xerox Co. Ltd.
(15 minutes)	Content-Aware Multi-Task Neural Networks for User Gender Inference based on Social Media Images

	3D Data, Graphics, and Retrieval (I) and Mobile Multimedia Search
Parallel Session 3	Room: Santa Clara
	Session Chair: Rui Shen (VIPShop)
Short paper 106	Takahiro Hayashi*, Masaru Hirose, Keisuke Suzuki, Niigata University
	Koji Abe, Kinki University
(15 minutes)	Similarity Retrieval of 3D Models with Query by Clay Sketch
C1 120	Faisal Ahmed*, Padma Polash Paul, Marina Gavrilova
Short paper 120	University of Calgary
(15 minutes)	Adaptive Pooling of the Most Relevant Spatio-Temporal Features for Action Recognition
	Mahdi Salarian*, Rashid Ansari
Short paper 74	University of Illinois at Chicago
(15 minutes)	Improved Image Retrieval for Efficient Localization in Urban Areas Using Location
	Uncertainty Data
Cl 0.2	Hamzah AlGhamdi*, Abdulmotaleb EI Saddik
Short paper 82 (15 minutes)	University of Ottawa
(13 minutes)	E-Tourism: Mobile Dynamic Trip Planner
C1 122	Mahdi Salarian*, Nick Iliev, Rashid Ansari
Short paper 132 (15 minutes)	University Of Illinois
(13 minutes)	Accurate Image based Localization by applying SFM and Coordinate System Registration
G1	Lukas Beck, Heiko Schuldt*
Short paper 141	University of Basel, Switzerland
(15 minutes)	City-Stories: A Spatio-Temporal Mobile Multimedia Search System
19:00-21:00	Welcome Reception (Siskiyou)

	December 12 (Monday)
8:00-16:00	Registration
8:00-8:30	Breakfast and Welcome from Conference Chair
8:30-9:30	Keynote (3): Dr. Pradeep Dubey Title: The Quest for The Ultimate Learning Machine Room: Donner Session Chair: Tong Zhang (Intel)
9:30-9:50	Coffee Break
9:50-11:50	Session 4
Parallel Session 4	Multimedia Data Mining and Deep Learning Room: Donner Session Chair: Min Chen
Regular paper 44 (25 minutes)	Rene Dias, Dibio Borges* University of Brasilia Recognizing Plant Species in the Wild: deep learning results and a new database
Regular paper 150 (25 minutes)	Samira Pouyanfar, Shu-Ching Chen* Florida International University Semantic Event Detection Using Ensemble Deep Learning
Regular paper 154 (25 minutes)	Holly H. Vo, Abhishek Verma* California State University, Fullerton New Deep Neural Nets for Fine-Grained Diabetic Retinopathy Recognition on Hybrid Color Space
Regular paper 126 (25 minutes)	Jingwen Liu*, Yanlei Gu, Shunsuke Kamijo The University of Tokyo Joint Customer Pose and Orientation Estimation using Deep Neural Network from Surveillance Camera
Short paper 18 (15 minutes)	Junnan Li*, Wong Yongkang, Mohan Kankanhalli National University of Singapore, Singapore Multi-stream Deep Learning Framework for Automated Presentation Assessment
Parallel Session 4	Multimedia Streaming, Networking, and QoS (II) Room: San Jose Session Chair: Yang Lei (HP Labs)
Regular paper 42 (25 minutes)	Mahdi Hemmati*, University of Ottawa Bill McCormick, Huawei Technologies Canada Shervin Shirmohammadi, University of Ottawa, Canada Fair and Efficient Bandwidth Allocation for Video Flows Using Sigmoidal Programming

	Ashkan Sobhani*, Abdulsalam Yassine, Shervin Shirmohammadi
Regular paper 128 (25 minutes)	University of Ottawa, Canada
	QoE-Driven Optimization for DASH Service in Wireless Networks
Regular paper 180 (25 minutes)	Abinesh Ramakrishnan, Cedric Westphal*, Huawei
	Jonnahtan Saltarin, University of Bern
	Adaptive Video Streaming over CCN with Network Coding for Seamless Mobility
Short paper 64 (15 minutes)	Mohammad Alsmirat*, Jordan University of Science and Technology
	Nabil Sarhan, Wayne State University
	Cross-Layer Optimization for Automated Video Surveillance
	3D Data, Graphics, and Retrieval (II)
Parallel Session 4	Room: Santa Clara
	Session Chair: Guanming Su (Dolby)
Regular paper 56	Ramakrishnan Mukundan* University of Cantoshury New Zeeland
(25 minutes)	University of Canterbury, New Zealand
,	Reconstruction of High Resolution 3D Meshes of Lung Geometry from HRCT Contours
Regular paper 100	David Gonzalez-Aguirre*, Javier Felip, Shahrokh Shahidzadeh Intel Labs
(25 minutes)	
	Infinite-Resolution 3D Modeling from a Single Image for Free-Form Revolution Objects
	Chengwu Liang*, Enqing Chen, Lin Qi, Zhengzhou University Ling Guan, Ryerson University
Regular paper 69	
(25 minutes)	3D Action Recognition Using Depth-based Feature and Locality-constrained Affine
	Subspace Coding SeungJin Lim*, Merrimack College
Short paper 21	
(15 minutes)	A Visualization Primitive for Multiway Relationships
Q1	Nasim Hajari, Irene Cheng, Anup Basu* University of Alberta
Short paper 101 (15 minutes)	
(13 minutes)	Robust Human Animation Skeleton Extraction using Compatibility and Correctness Constraints
11.50.10.50	Lunch & TCMC and TCSEM Joint Meeting
11:50-12:50	(Welcome to all attendees, Room: Donner)
	Keynote (4): Ruzena Bajcsy
	Title: Development of Kinematic and Dynamic Models for Individual using System Estimation and Identification Techniques
12:50-13:50	•
	Room: Donner
	Session Chair: Chengcui Zhang (University of Alabama at Birmingham)
14:00-16:00	Session 5
	Content Understanding, Modeling, Management, and Retrieval (III)
Parallel Session 5	Room: Donner
	Session Chair: Mark Claypool
Regular paper 12	Daniel Rotman*, Dror Porat, Gal Ashour
(25 minutes)	IBM
	Robust and Efficient Video Scene Detection Using Optimal Sequential Grouping

Regular paper 119 (25 minutes)	Yilin Yan, Mei-Ling Shyu* Miami University, USA
	Enhancing Rare Class Mining in Multimedia Big Data by Concept Correlation
Short paper 73 (15 minutes)	Caio Duarte Diniz Monteiro*, Christy Maria Mathew, Frank Shipman, Ricardo Gutierrez-Osuna
	Texas A&M University
	Detecting and Identifying Sign Languages through Visual Features
Short paper 54	Lei Gao*, Ling Guan, Ryerson University Lin Qi, Enqing Chen, Zhengzhou University
(15 minutes)	A Novel Discriminative Framework Integrating Kernel Entropy Component Analysis and Discriminative Multiple Canonical Correlation for Information Fusion
	Media Coding, Processing, and Quality Measurement (I)
Parallel Session 5	Room: San Jose
	Session Chair: Xiaoqing Zhu
Regular paper 75	Kashyap Kammachi Sreedhar*, Alireza Aminlou, Miska Hannuksela, Nokia Technologies Moncef Gabbouj, TUT, Tampere, Finland
(25 minutes)	Standard-compliant Multiview Video Coding and Streaming for Virtual Reality Applications
	Mohammad Kazemi*, University of Isfahan, Iran
Regular paper 157 (25 minutes)	Razib Iqbal, Missouri State University, USA Shervin Shirmohammadi, University of Ottawa
	A Selective Intra-Coding Approach for Multiple Description Video Coding
Invited paper 178 (25 minutes)	Ernestasia Siahaan*, Alan Hanjalic, Judith Redi TU Delft, Netherland
(23 minutes)	Augmenting Blind Image Quality Assessment using Image Semantics
Short paper 46	Fahd Bouzaraa*, Technical Unviersity of Munich Onay Urfalioglu, Huawei European Research Center
(15 minutes)	CNN BASED NON-LOCAL COLOR MAPPING
Short paper 148	Ryan Janzen*, Steve Mann University of Toronto
(15 minutes)	The Physical-Fourier-Amplitude Domain, and Application to Sensing Sensors
	Multimedia Security and Forensics
Parallel Session 5	Room: Santa Clara Session Chair: Chengcui Zhang
Short paper 17	CHULE YANG*, DANWEI WANG, Prarinya Siritanawan Nanyang Technological University
(15 minutes)	Organ-Based Facial Verification Using Thermal Camera
G1 · 107	Michael Wolfram, Haider Ali*, Alin Albu-Schaeffer
Short paper 107 (15 minutes)	Robotics and Mechatronics Center (RMC), German Aerospace Center (DLR)
	Visual focus of attention recognition from fixed chair sitting postures using RGB-D data Barbara Hilsenbeck*, David Münch, Ann-Kristin Grosselfinger, Wolfgang Hübner, Michael
Short naner 110	Arens
Short paper 110 (15 minutes)	Fraunhofer IOSB, Ettlingen
	Action recognition in the longwave infrared and the visible spectrum using Hough forests

Short paper 135 (15 minutes)	Sina Gholamnejad Davani, Nabil Sarhan*, Musab Al-Hadrusi Wayne State University
	A Clustering Approach for Controlling PTZ Cameras in Automated Video Surveillance
~1.00	Munif Alotaibi*, Ausif Mahmood
Short paper 109	University of Bridgeport Reduction of Gait Covariate Factors Using Feature Selection and
(15 minutes)	Sparse Dictionary Learning
	Mejren Mohammad*, Sabu Emmanuel
Short paper 23	Kuwait University
(15 minutes)	
	Improving SURF Based Copy-Move Forgery Detection Using Super Resolution
16:00-16:20	Coffee Break
16:20-18:00	Session 6
	Poster and Demo Session
Parallel Session 6	Room: (Donner and Siskiyou and the Foyer area)
	Session Chair: Shanchan Wu (HP Labs)
	Omar Alaql*, Kambiz Ghazinour, Cheng Chang Lu
Poster paper 19	Kent state university
	Classification of Image Distortions based on Features Evaluation
	Ahmad Delforouzi*, Amir Tabatabaei, Kimiaki Shirahama
Poster paper 20	University of Siegen
	Polar Object Tracking in 360-Degree Camera Images Tuoerhongjiang Yusufu*, Naifan Zhuang, Kien A. Hua
Poster paper 29	University of Central Florida
1 1	
	Relational Learning based Happiness Intensity Analysis in a Group
	Rintaro Harada*, Shintaro Saika, Masaru Takeuchi, Kenji Kanai, Waseda University
Poster paper 38	Yasutaka Matsuo, NHK Jiro Katto, Waseda University
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	Quality Evaluations of 8K/60P UHDTV Retransmission for a Broadcasting and
	Communication Integrated Platform
	Mengyan Yuan*, Enqing Chen, Zhengzhou University
Poster paper 55	Lei Gao, Ryerson University
	Posture Selection Based on Two-layer AP with Application to Human Action Recognition
	Using HMM
Dogtor namer 62	Vicky Sintunata*, Terumasa Aoki
Poster paper 62	Tohoku University
	Skeleton Extraction in Cluttered Image based on Delaunay Triangulation
.	Weixuan Chen*, Rosalind Picard
Poster paper 81	MIT Media Lab
	Predicting Perceived Emotions in Animated GIFs with 3D Convolutional Neural Networks
	Tunde Akinjala, Ruth Agada, Jie Yan*
Poster paper 92	Bowie State University
	Animating Human Movement & Gestures on an Agent using Microsoft Kinect

Poster paper 108	Xin Zhou, Northwestern Polytechnical University Guangming Shi, Xidian University
r osier paper 108	Wei Zhou*, Northwestern Polytechnical University Perceptual CU Size Decision and Fast Prediction Mode Decision Algorithm for HEVC Intra
Poster paper 114	Coding Xin Guo*, Lin Qi, Zhengzhou University Ling Guan, Ryerson University
	Semi-supervised and semi-paired graph regularized multiset canonical correlation analysis
Poster paper 115	Han Wu, Xiangwei Kong*, Hongxue Yang, Ying Li Dalian University of Technology
Poster paper 125	Sparse Feature Preservation for Relative Attribute Learning Okan çandır*, Elif karslıgil Yıldız Technical University
	Detection of the Periodicity of Human Actions for Efficient Video Summarization
Demo paper 159	Takahiro Hayashi* Niigata University
	OtoPittan: A Music Recommendation System for Making Impressive Videos
Demo paper 160	Sarang Nerkar*, Pete Scourboutakos, Ryan Janzen, Steve Mann University of Toronto
	Extrapolative Lightspace Method for HDR Video Exposure Selection
Demo paper 163	Robert Skupin*, Yago Sanchez de la Fuente, Cornelius Hellge, Thomas Schierl Fraunhofer HHI
	Tile Based HEVC Video for Head Mounted Displays Junnan Li*, Wong Yongkang, Mohan Kankanhalli
Demo paper 164	National University of Singapore, Singapore
	Demo Paper: PreSense - An Assistive Presentation Self-Quantification System
Demo paper 166	Mary Amiri*, Karun Pal Singh Malik, Hussein Al Osman, Shervin Shirmohammadi University of Ottawa, Canada
	GAME-AWARE RESOURCE MANAGER FOR HOME GATEWAYS
Demo paper 168	Rodrigo Laiola Guimaraes* IBM Research
	Rethinking Online Code Editors for Authoring Web-Based Multimedia Presentations
Demo paper 169	Mohammad Hosseini*, Viswanathan Swaminathan Adobe
	Adaptive 360 VR Video Streaming based on MPEG-DASH SRD
Demo paper 170	Lloyd Smith* Missouri State University
	A Virtual Xylophone for Music Education
Demo paper 171	Wei-Bang Chen*, Virginia State University; James Li, Virginia state University
Demo paper 171	A Fully Automated Approach for Classification of Microstructures in Thermal Barrier Coating Microscopic Images
19:00-21:00	Banquet (Siskiyou)
	Banquet Speaker: Max Mühlhäuser

December 13 (Tuesday)		
8:00-16:00	Registration	
8:00-8:30	Breakfast and Welcome from Conference Chair	
8:30-9:30	Keynote (5): Dr. Jan P. Allebach Title: Small, Medium, and Big Data: Application of Machine Learning Methods to the Solution of Real-World Imaging and Printing Problems	
	Room: Donner Session Chair: Shervin Shirmohammadi	
9:30-9:50	Coffee Break	
9:50-11:50	Session 7	
	Multimedia and Web Interfaces	
Parallel Session 7	Room: Donner Session Chair: Lei Zhang (Microsoft Research)	
Regular paper 37	HISAYUKI OHMATA*, NHK Andrew Lippman, MIT	
(25 minutes)	8K Time into Space: Web-based Interactive Storyboard with Playback for Hundreds of Videos	
Regular paper 131 (25 minutes)	Roman Hak*, Czech Technical University, Prague Tomáš Zeman, CVUT	
Regular paper 22	Improving Response Time Through Multimodal Integration Pattern Modeling Xinyao Sun, Irene Cheng, Anup Basu* University of Alberta	
(25 minutes)	SPATIO-TEMPORALLY OPTIMIZED MULTI-SENSOR MOTION FUSION	
Short paper 127 (15 minutes)	Wen-Hung Liao*, Chiu-Fang Peng National Chengchi University	
Short paper 35 (15 minutes)	Evaluation of interactive data visualization tools based on gaze and mouse tracking Pierrick Bruneau*, Mickaël Stefas, LIST, Luxembourg Johann Poignant, LIG Hervé Bredin, Claude Barras, LIMSI, France Post Hoc Interactive Applytics of Errors in the Context of a Person Discovery Took	
	Post-Hoc Interactive Analytics of Errors in the Context of a Person Discovery Task Media Coding, Processing, and Quality Measurement (II)	
Parallel Session 7	Room: San Jose Session Chair: Roger Zimmermann	
Regular paper 11	Bo-Hao Chen*, Yuan Ze University Chia-Hao Chang, Shih-Chia Huang, National Taipei University of Technology	
(25 minutes)	Denoising Using Inverse-Distance Weighting with Sparse Approximation	

Regular paper 130 (25 minutes)	Jui-Hsin Lai*, Ruichi Yu, Ching-Yung Lin IBM T.J. Watson Research Center
	Neuron Activity Extraction and Network Analysis on Mouse Brain Videos
Regular paper 134 (25 minutes)	Luis Henrique Vogado*, Universidade Federal do Piauí Rodrigo Veras, Alan Ribeiro Andrade, Flavio Araujo, Romuere Silva, Federal University of Piauí Fátima N. Medeiros, Universidade Federal do Ceará
	Unsupervised Leukemia Cells Segmentation Based on Multi-space Color Channels
Regular paper 149 (25 minutes)	Wu-chi Feng*, Ryan Feng, Paul Wyatt, Feng Liu Portland State University
	Understanding the Impact of Compression on Feature Detection and Matching in Computer Vision
Short paper 58 (15 minutes)	Saeed Shafiee Sabet*, Mahmoud R. Hashemi, Mohammad Ghanbari University of Tehran, Iran
	A Testing Apparatus for Faster and More Accurate Subjective Assessment of Quality of Experience in Cloud Gaming
	MTEL Workshop and Industrial Program
Parallel Session 7	Room: Santa Clara
	Session Chair: Florian Schimanke
Industrial paper 43	Rodrigo Ferreira*, Andrea Britto, Emilio Brazil, Renato Cerqueira, IBM Marco Ferraz, Sérgio Cersosimo, Galp Energia
(20 minutes)	Multi-scale Evaluation of Texture Features for Salt Dome Detection
Industrial paper 113 (20 minutes)	Shuichi Kurabayashi*, Hidetoshi Ishiyama, Masaru Kanai Cygames, Inc.
	Sensing-by-Overlaying: A Practical Implementation of a Multiplayer Mixed-Reality Gaming System by Integrating a Dense Point Cloud and a Real-Time Camera
Industrial paper 122 (20 minutes)	Joni Räsänen*, Marko Viitanen, Jarno Vanne, Timo Hämäläinen, Tampere University of Technology Miska Hannuksela, Vinod Malamal Vadakital, Nokia Technologies
	RTP/RTCP Reception Hint Tracks for Video Call Recording and Playback
MTEL-2	Paul E. Dickson, Chris Kondrat, W. Richards Adrion, Tim D. Richards, Ryan B. Szeto
(20 minutes)	Improved Whiteboard Processing for Lecture Capture
MTEL-3	Florian Schimanke, Robert Mertens, Oliver Vornberger, Leonard Hill
(20 minutes)	Simulating Context in Mobile Learning Games for Testing and Debugging
11:50-12:50	Lunch
12:50-13:50	Panel: Beyond the Buzz of IoT, Deep Learning, and Cloud: Do they influence future multimedia research?
	Room: Donner Session Chairs: Lei Zhang, Balakrishnan Prabhakaran Panelists: Jan Allebach (Purdue University), Gerald Friedland (UC Berkeley), Ramesh Jain (UC Irvine), Qian Lin (HP Labs), Qiong Liu (PXPAL)

13:30 – 17:30	Bay Area Multimedia Forum (BAMMF)
	Room: Siskiyou
14:00-16:00	Session 8
Parallel Session 8	Multimedia Social Network
	Room: Donner Session Chair: Samira Pouyanfar (FIU)
Regular paper 96 (25 minutes)	Teresa Bracamonte*, Aidan Hogan, Barbara Poblete University of Chile
Regular paper 26 (25 minutes)	Applying community detection methods to cluster tags in multimedia search results Martin Pichl*, Eva Zangerle and Gunther Specht University of Innsbruck
Invited paper 174	Understanding Playlist Creation on Music Streaming Platforms Jitao Sang*, Changsheng Xu, CASIA Ramesh Jain, UCI
(20 minutes)	Social Multimedia Ming: from Special to General Rajiv Shah*, NUS
Invited paper 175 (20 minutes)	Anupam Samanta, Deepak Gupta, Indian Institute of Technology Yi Yu, National Institute of Informatics Suhua Tang, The University of Electro-Communications, Japan Roger Zimmermann, NUS
	PROMPT: Personalized User Tag Recommendation for Social Media Photos Leveraging Personal and Social Contexts
Invited paper 189 (20 minutes)	Chitrakar Pradip, Chengcui Zhang*, Gary Warner, Xinpeng Liao The University of Alabama at Birmingham, USA Social Media Image Retrieval using Distilled Convolutional Neural Network for Suspicious
,	e-Crime and Terrorist Involvement Detection
	Media Coding, Processing, and Quality Measurement (III)
Parallel Session 8	Room: San Jose Session Chair: Chengcui Zhang
Invited paper 162 (25 minutes)	Yifang Yin*, Zhenguang Liu, Satyam, Roger Zimmermann National University of Singapore
Invited paper 172	Laplacian Sparse Coding of Scenes for Video Classification Mehdi Stapleton, Ivan Bajic* Simon Fraser University
(25 minutes)	Robust Domain-Filling Plumb-Line Lens Distortion Correction
Invited paper 173 (25 minutes)	Andrea Salvi, Marco Bertini*, Alberto Del Bimbo University of Florence
	Bloom Filters and Compact Hash Codes for Efficient and Distributed Image Retrieval Yasutaka Matsuo*, Shinichi Sakaida
Short paper 34 (15 minutes)	NHK
	Super-Resolution Method by Registration of Multi-Scale Components Considering Color Sampling Pattern and Frequency Spectrum Power of UHDTV Camera

Short paper 57 (15 minutes)	Ramin Ghaznavi Youvalari*, Alireza Aminlou, Miska Hannuksela, Nokia Technologies Moncef Gabbouj, TUT, Tampere, Finland
	Efficient Coding of 360-Degree Pseudo-Cylindrical Panoramic Video for Virtual Reality Applications
	Systems and Architectures
Parallel Session 8	Room: Santa Clara Session Chair: Tong Zhang
Short paper 28 (15 minutes)	Ilija Hadzic*, Martin Carroll, Hans Woithe Bell Labs, Nokia
	Low-Level Frame-Buffer Scraping for GPUs in the Cloud
Short paper 146 (15 minutes)	Xueshi Hou*, Yao Lu, Sujit Dey University of California, San Diego
(13 mmates)	A Novel Hyper-cast Approach to Enable Cloud-based Virtual Classroom Applications
Short paper 105 (15 minutes)	Jungwoo Lee, Minseok Song* INHA University
	Cache Management for Video Servers by the Combined Use of DRAM and SSD
Chartman o	Stefan Petersson*, Håkan Grahn, Blekinge Institute of Technology
Short paper 9 (15 minutes)	Jim Rasmusson, Sony Mobile Communications AB
(13 minutes)	COLOR DEMOSAICING USING STRUCTURAL INSTABILITY
16:00-16:20	Coffee Break
16:20-18:00	Session 9
	Multimedia Storage and Databases, and Networking and QoS (III)
Parallel Session 9	Room: Donner
	Session Chair: Yi Wu (Intel Labs)
Regular paper 61	Dominik Van Opdenbosch*, Eckehard Steinbach
(25 minutes)	TUM
,	AVLAD: Optimizing the VLAD image signature for specific feature descriptors
Regular paper 53	Kai Li*, Guojun Qi, Jun Ye, Tuoerhongjiang Yusuph, Kien Hua University of Central Florida
(25 minutes)	
	Supervised Ranking Hash for Semantic Similarity Search La Halta Mirrory * Algorida Alay Paralyahitza Lingfon Syn
Invited paper 190	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK
Invited paper 190 (25 minutes)	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun
(25 minutes)	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France
(25 minutes) Short paper 137	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking
(25 minutes)	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France
(25 minutes) Short paper 137	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France Frederic Font, Xavier Serra, Universitat Pompeu Fabra
(25 minutes) Short paper 137	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France Frederic Font, Xavier Serra, Universitat Pompeu Fabra Improving Audio Retrieval through Loudness Profile Categorization
(25 minutes) Short paper 137 (15 minutes)	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France Frederic Font, Xavier Serra, Universitat Pompeu Fabra Improving Audio Retrieval through Loudness Profile Categorization MuSDeMP Workshop
(25 minutes) Short paper 137 (15 minutes) Parallel Session 9	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France Frederic Font, Xavier Serra, Universitat Pompeu Fabra Improving Audio Retrieval through Loudness Profile Categorization MuSDeMP Workshop Room: San Jose Session Chair: Rodrigo Ferreira Rodrigo C M Santos, IBM/PUc-Rio
(25 minutes) Short paper 137 (15 minutes)	Is-Haka Mkwawa*, Alcardo Alex Barakabitze, Lingfen Sun University of Plymouth, UK Video Quality Management over the Software Defined Networking Sanjeel Parekh*, Technicolor R&D France Frederic Font, Xavier Serra, Universitat Pompeu Fabra Improving Audio Retrieval through Loudness Profile Categorization MuSDeMP Workshop Room: San Jose Session Chair: Rodrigo Ferreira

	Noemi Rodriguez, PUC-Rio
	Renato Cerqueira, IBM
	Cognitive Computing Systems in Reactive Multimedia Applications Developed in CÉU
MuSDeMP-3 (20 minutes)	Daniel Chevitarese, Marcelo Nery IBM
	Real-time face tracking and recognition on IBM neuromorphic chip
MuSDeMP-4 (20 minutes)	Marcio Moreno, Rafael Brandao, Renato Cerqueira IBM
	Challenges on Multimedia for Decision-Making in the Era of Cognitive Computing
MuSDeMP-5 (20 minutes)	Juliana Ferreira, Marcio Moreno, Rafael Brandao, Renato Cerqueira IBM
	Multimedia in Cognitive-Intensive Practices: a case with ATLAS.ti supporting HCI Qualitative Research
MuSDeMP-6 (20 minutes)	Bernardo Goncalves IBM
	Show me the material evidence Initial experiments on evaluating hypotheses from user-generated multimedia data
Parallel Session 9	Gaming and Virtual Reality
	Room: Santa Clara Session Chair: Steve Cho (Intel)
Regular paper 104	Mary Amiri*, Hussein Al Osman, Shervin Shirmohammadi University of Ottawa, Canada
(25 minutes)	Datacenter Traffic Shaping for Delay Reduction in Cloud Gaming
Invited paper 186	Mark Claypool* WPI
(25 minutes)	On Models for Game Input with Delay - Moving Target Selection with a Mouse
Short paper 77 (15 minutes)	Kashyap Kammachi Sreedhar*, Alireza Aminlou, Miska Hannuksela, Nokia Technologies Moncef Gabbouj, TUT, Tampere, Finland
	Viewport-adaptive Encoding and Streaming of 360-degree Video for Virtual Reality Applications
Short paper 39 (15 minutes)	Aleksandr Setkov*, Michele Gouiffes LIMSI, CNRS, Univ. Paris-Sud, Université Paris-Saclay
	Geometric compensation of dynamic video projections