MIPR 2019 Program Details

March 28

March 28	Registration Room: Champagne Foyer
8:00 ~ 18:00	Registration

March 28	Session: Keynote 1 Room: Champagne I Session Chair: Rainer Lienhart (Universitat Augsburg, Germany)
8:20 ~ 8:30	Welcome from conference chair
8:30 ~ 9:30	Keynote Speaker: John Apostolopoulos (Cisco) Title: Machine Learning for Networked Multimedia Systems

March 28	Session: Innovation Forum 1 - The Latest Advances in Computer Vision & Its Applications Room: Champagne I Moderator: Ting Yu (Google Cloud AI)
10:00 ~ 12:00	Speakers: Mei Han (PingAn Technology) Shuxue Quan (OPPO US Research) Lu Jiang (Google Cloud AI) Dashan Gao (12 Sigma Technologies)

March 28	Session: Multimedia and Vision 1 Room: Champagne II Session Chair: Fengqing Zhu (Purdue University)
10:00 ~ 10:20	Video Object Counting Dataset Onalenna J Makhura (University of Botswana); John Woods (University of Essex)
10:20 ~ 10:40	A Photo Forensics-Based Prototype to Combat Revenge Porn Manoranjan Mohanty (University of Auckland, New Zealand); Ming Zhang (The University of Auckland); Giovanni Russello (The University of Auckland)
10:40 ~ 11:00	Using Amino Acids of Images for Identifying Pornographic Images Vijay Naidu (Auckland University of Technology); Ajit Narayanan (Auckland University of Technology); Manoranjan Mohanty (University of Auckland, New Zealand)
11:00 ~ 11:20	FDDB-360: Face Detection in 360-degree Fisheye Images

	Jianglin Fu (Simon Fraser University); Saeed Ranjbar Alvar (Simon Fraser University); Ivan Bajic (Simon Fraser University); Rodney G Vaughan (Simon Fraser University)
11:20 ~ 11:40	CNN Based Touch Interaction Detection For Infant Speech Development Qingshuang Chen (PURDUE UNIVERSITY); Rana Abu-Zhaya (Purdue University); Amanda Seidl (PURDUE UNIVERSITY); Fengqing Zhu (Purdue University)
11:40 ~ 12:00	Current Picture Referencing in Versatile Video Coding Xiaozhong Xu (Tencent America); Xiang Li (Tencent America); Shan Liu (Tencent America)

March 28	Session: Multimedia Retrieval 1 Room: Champagne III Session Chair: Ramazan Aygun (The University of Alabama in Huntsville)
10:00 ~ 10:20	ES-ESens: Detection of Event Sentences based on Evaluation of the Explicitness and Significance of Information Haihua Xie (Peking University Founder IT Group); Xiaoqing Lyu (Peking University); Xuefei Chen (Peking University Founder IT Group); Jinle Tong (Peking University Founder IT Group); Zhi Tang (Peking University)
10:20 ~ 10:40	Temporal Querying of Faces in Videos Using Bitmap Index Ramazan Aygun (The University of Alabama in Huntsville); Buddha R Shrestha (The University of Alabama in Huntsville); Haeyong Chung (The University of Alabama in Huntsville)
10:40 ~ 11:00	Context-Aware 3D Visualization of the Dynamic Environment Sheikh Radiah (University Munich); Darius Burschka (Technical University Munich)
11:00 ~ 11:20	Bi-directional Re-ranking for Person Re-identification Yiqian Chang (Peking University); Yemin Shi (Peking University); Yaowei Wang (Beijing Institute of Technology); Yonghong Tian (PKU)
11:20 ~ 11:40	Thumbnail Image Selection for VOD Services Chun-Ning Tsao (National Taiwan University); Jing-Kai Lou (KKStream Limited); Homer Chen (National Taiwan University)
11:40 ~ 12:00	Color-Assisted Local Feature Pipeline for Three-Dimensional Object Retrieval Yang Lei (HP Labs); Jian Fan (HP Labs); Jerry Liu (HP Labs)

March 28	Session: Innovation Forum 2 - The Future of NLP/Audio Technology Room: Champagne I Moderator: Sunil Bharitkar (HP Labs)
13:30 ~ 15:30	Speakers: Phil Hilmes (Lab126)

	Vivek Kumar (Dolby Labs) Panayiotis G. Georgiou (University of Southern California) Kyu Jeong Han (JD AI Research)

March 28	Session: Machine Learning/Deep Learning/Data Mining 1 Room: Champagne II Session Chair: Fengqing Zhu (Purdue University)
13:30 ~ 13:50	Splicing Detection And Localization In Satellite Imagery Using Conditional GANs Emily Bartusiak (Purdue University); Sri Yarlagadda (Purdue University); David Güera (Purdue University); Paolo Bestagini (Politecnico di Milano); Stefano Tubaro (Politecnico di Milano, Italy); Fengqing Zhu (Purdue University); Edward Delp (Purdue University)
13:50 ~ 14:10	Integrated detection and tracking for ADAS using deep neural network Mingjie Liu (Inha University)
14:10 ~ 14:30	Toward Fusing Domain Knowledge with Generative Adversarial Networks to Improve Supervised Learning for Medical Diagnoses Fu-Chieh Chang (HTC Research & Healthcare); Jocelyn Chang (Johns Hopkins University); Chun-Nan Chou (HTC Research); Edward Y Chang (HTC Research & Healthcare)
14:30 ~ 14:50	Machine Learning on Biomedical Images: Interactive Learning, Transfer Learning, Class Imbalance, and Beyond Naimul Mefraz Khan (Ryerson University); Nabila Abraham (Ryerson University); Marcia Hon (Ryerson University); Ling Guan (Ryerson University)
14:50 ~ 15:10	Automatic Generation of Chinese Couplets with Attention Based Encoder-Decoder Model Shengqiong Yuan (Wuhan University of Technology); Luo Zhong (Wuhan University of Technology, China); Lin Li (Wuhan University of Technology); Rui Zhang (Wuhan University of Technology)
15:10 ~ 15:30	Adversarial learning for Content-based Image Retrieval LING HUANG (Zhejiang University of Technology); Cong Bai (Zhejiang University of Technology); Yijuan Lu (Texas State University); Shengyong Chen (Zhejiang University of Technology); Qi Tian (Huawei Noah's Ark Lab)

March 28	Session: Novel Applications 1 Room: Champagne III Session Chair: Jianquan Liu (NEC Corporation)
13:30 ~ 13:50	Detecting Speech Impairments from Temporal Visual Facial Features of Aphasia Patients

	Moritz Einfalt (University of Augsburg); Rainer Lienhart (Universitat Augsburg, Germany); Matthew Lee (FXPAL); Lyndon Kennedy (FXPAL)
13:50 ~ 14:10	LibROSA based assessment tool for Music Information Retrieval systems Preeth Raguraman (National Institute of Technology Tiruchirappalli); R. Mohan (NIT Trichy); Midhula Vijayan (National Institute of Technology, Tiruchirappalli)
14:10 ~ 14:30	Classification of Sleep Videos Using Deep Learning Jeehyun Choe (Purdue University); A. J. Schwichtenberg (Purdue University); Edward Delp (Purdue University)
14:30 ~ 14:50	A Novel Framework for 3D-2D Vertebra Matching Hanchao Yu (UIUC); Yang Fu (UIUC); Haichao Yu (UIUC); Yunchao Wei (UIUC); Xinchao Wang (Stevens Institute of Technology); Jianbo Jiao (UIUC); Matthew Bramlet (UIUC); Thenkurussi Kesavadas (UIUC); Honghui Shi (IBM Research); Zhangyang Wang (Texas A&M University); Bihan Wen (University of Illinois at Urbana-Champaign); Thomas Huang (University of Illinois at Urbana Champaign)
14:50 ~ 15:10	A Fast and Robust Re-Identification Method for Large Video Data Satoshi Yoshida (NEC corporation); Shoji Nishimura (NEC Corporation); Jianquan Liu (NEC Corporation)
15:10 ~ 15:30	On the Origin, Proliferation and Tone of Fake News Shivam Parikh (University at Albany,SUNY); Vikram Patil (University at Albany); Pradeep K. Atrey (University at Albany, SUNY)

March 28	Session: Innovation Forum 3 - Towards Autonomous Driving Room: Champagne I Moderator: Yu Huang (Singulato Inc.)
16:00 ~ 18:00	Speakers: Anurag Gangul (Plus.AI) Hao Jiang (Microsoft Cloud & AI) Junwei Bao (Innovusion) Shiyu Song (Baidu) Chang Yuan (Foresight AI)

March 28	Session: Multimedia and Vision 2 Room: Champagne II Session Chair: Jerry Gibson (UC Santa Barbara)
16:00 ~ 16:20	M3S-NIR: Multi-Modal Multi-Scale Noise-Insensitive Ranking for RGB-T Saliency Detection Zhengzheng Tu (Anhui University); Tian Xia (Anhui University); Chenglong Li (Anhui University); Yijuan Lu (Texas State University); Jin Tang (Anhui University)
16:20 ~ 16:40	Recurrent Neural Networks for Person Re-identification Revisited

	Jean-Baptiste Boin (Stanford University); Andre Araujo (Google); Bernd Girod (Stanford University)
16:40 ~ 17:00	Data-specific Adaptive Threshold for Face Recognition and Authentication Hsin-Rung Chou (Academia Sinica); Jia-Hong Lee (Academia Sinica); Yi-Ming Chan (Academia Sinica); Chu-Song Chen (Academia Sinica)
17:00 ~ 17:20	Characterization of Mutual Information Loss in Pyramidal Image Processing Structures Jerry Gibson (UC Santa Barbara ECE); Hoontaek Oh (UC Santa Barbara ECE)
17:20 ~ 17:40	Efficient Multi-Person Hierarchical 3D Pose Estimation for Autonomous Driving Renshu Gu (University of Washington); Gaoang Wang (University of Washington); Jenq-Neng Hwang (University of WA)
17:40 ~ 18:00	Person Re-identification for Estimating Bus Passenger Flow Yutaka Shimada (Saitama University); Motoki Takagi (Tokyo University of Science); Yukinobu Taniguchi (Tokyo University of Science)

March 28	Session: Content Understanding and Analytics 1 Room: Champagne III Session Chair: Anustup Chaudhury (Dolby Laboratories)
16:00 ~ 16:20	Minimum Audible Movement Angle in Virtual Auditory Environment: Effect of Stimulus Frequency Yiyuan Han (Southern University of Science and Technology); Fei Chen (Southern University of Science and Technology)
16:20 ~ 16:40	Combining Quality Metrics for improved HDR Image Quality Assessment Anustup Chaudhury (Dolby Laboratories); Scott Daly (Dolby Laboratories)
16:40 ~ 17:00	A Large-scale Analysis of Regional Tendency of Twitter Photos Using Only Image Features Tetsuya Nagano (Univ. Electro-Comm., Tokyo); Takumi Ege (Univ. Electro-Comm., Tokyo); Wataru Shimoda (The University of Electro-Communications, Tokyo); Keiji Yanai (Univ. Electro-Comm., Tokyo)
17:00 ~ 17:20	Saliency Priority Using Bottom-up Features for Static and Dynamic Scenes Without Cognitive Bias Jila Hosseinkhani (Carleton University), Chris Joslin (Carleton University)
17:20 ~ 17:40	Self-Reproducing Video Frame Interpolation Jiajun Deng (University of Science and Technology of China); Haichao Yu (UIUC); Zhangyang Wang (TAMU); Xinchao Wang (Stevens Institute of Technology); Thomas Huang (UIUC)
17:40 ~ 18:00	A Multi-label Multimodal Deep Learning Framework for Imbalanced Data Classification

	Samira Pouyanfar (Florida International University); Tianyi Wang (Florida International University); Shu-Ching Chen (Florida International University)

March 28	Session: Welcome Reception Room: Seven's Restaurant
19:00 ~ 21:00	Welcome Reception

March 29

March 29	Registration Room: Champagne Foyer
8:00 ~ 18:00	Registration

March 29	Session: Keynote 2 Room: Champagne I Session Chair: Mohan Kankanhalli (National University of Singapore Singapore)
8:30 ~ 9:30	Keynote Speaker: Danny Lange (Unity Technologies) Title: On the Road to Artificial General Intelligence

March 29	Session: Innovation Forum 4 - Next-Generation Video & Display Technology Room: Champagne I Moderator: Scott Daly (Dolby Labs)
10:00 ~ 12:00	Speakers: Mylene Farias (University of Brasília) Tao Chen (Dolby Labs) Marina Zannoli (Facebook Reality Labs) Aldo Badano (FDA) Ronan Boitard (MTT) Ben Bodner (LG Electronics)

March 29	Session: Multimedia and Vision 3 Room: Champagne II Session Chair: Changhong Fu (Nanjing University of Science and Technology)
10:00 ~ 10:20	Building-Scale Virtual Reality: Another Way to Extend Real World Katashi Nagao (Nagoya University); Menglong Yang (Nagoya University); Xu Cao (Nagoya University); Yusuke Miyakawa (Nagoya University)
10:20 ~ 10:40	Gaussian Markov Random Fields-Based Features for Volumetric Texture Segmentation

	Yasseen Almakady (University of Southampton); Sasan Mahmoodi (University of Southampton); Michael Bennett (University Hospital Southampton NHS Foundation Trust)
10:40 ~ 11:00	Blind Image Quality Prediction for Object Detection Lingchao Kong (University of Cincinnati); Ademola Ikusan (University of Cincinnati); Rui Dai (University of Cincinnati); Jingyi Zhu (University of Cincinnati)
11:00 ~ 11:20	Using Convolutional Neural Networks to Detect and Extract Retinal Blood Vessels in Fundoscopic Images Benjamin Standfield (Virginia State University); Wei-Bang Chen (Virginia State University); Yujuan Wang (State Key Laboratory of Ophthalmology, Zhongshan Ophthalmic Center, Sun Yat-sen University); Yongjin Lu (Virginia State University); Ahmed F. Abdelzaher (Virginia State University); Xiaoliang Wang (Virginia State University); Xin-Guang Yang (Henan Normal University)
11:20 ~ 11:40	Non-contact Heart Rate Monitoring for Intensive Exercise based on Singular Spectrum Analysis Kai Xie (Nanjing University of Science and Technology); Changhong Fu (Nanjing University of Science and Technology); Huaiguo Liang (Nanjing University of Science and Technology); Hong Hong (Nanjing University of Science and Technology); Xiaohua Zhu (Nanjing University of Science and Technology)
11:40 ~ 12:00 Oral presentation poster paper	Automatic Tour Video Summarization Focusing on Scene Change for Advance Touristic Experience Yuki Kanaya (Nara Institute of Science and Technology); Shogo Kawanaka (Nara Institute of Science and Technology); Hirohiko Suwa (Nara Institute of Science and Technology); Yutaka Arakawa (Nara Institute of Science and Technology); Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)

March 29	Session: Multimedia Retrieval 2 Room: Champagne III Session Chair: Yijuan Lu (Texas State University)
10:00 ~ 10:20	Supervised Deep Hashing for Cover Song Detection Zhaoqin Ye (International Computer Science Institute); Jaeyoung Choi (ICSI, TU Delft); Gerald Friedland (UC Berkeley, Lawrence Livermore National Laboratory)
10:20 ~ 10:40	Feature Enhancement in Medical Ultrasound Videos Using Multifractal and Adaptive Histogram Equalization Techniques Prerna Singh (University of Canterbury); Ramakrishnan Mukundan (University of Canterbury); Rex de (Canterbury District Health Board)
10:40 ~ 11:00	Self-Guided Hash Coding for Large-Scale Person Re-Identification Xiaobin Liu (Peking University); Shiliang Zhang (Beijing University); Ming Yang (horizon-robotics)
11:00 ~ 11:20	Stalker Retrieval on Surveillance Videos using Spatio-Temporal Coappearance

	Jianquan Liu (NEC Corporation); Ka Wai Yung (University of Pittsburgh); Shoji Nishimura (NEC Corporation); Takuya Araki (NEC)
11:20 ~ 11:40	Yet Another Framework for Tweet Entity Linking (YAFTEL) Hyoil Han (Illinois State University); Pattamon Viriyothai (Self-employed); SeungJin Lim (Merrimack College); Dominik Lameter (Illinois State University); Benjamin Mussel (Illinois State University)
11:40 ~ 12:00	Sketch/Image-Based 3D Scene Retrieval: Benchmark, Algorithm, Evaluation Juefei Yuan (University of Southern Mississippi); Hameed Abdul-Rashid (University of Southern Mississippi); Bo Li (University of Southern Mississippi); Yijuan Lu (Texas State University)

March 29	Session: Innovation Forum 5 - The Imminent Trends of Video Compression Room: Champagne I Moderator: Shan Liu (Tencent)
13:30 ~ 15:30	Speakers: Jim Bankoski (Google) Benjamin Bross (Heinrich Hertz Institute) Scott Janus (Intel) Ali Tabatabai (Sony)

March 29	Session: Machine Learning/Deep Learning/Data Mining 2 Room: Champagne II Session Chair: Yumi Iwashita (NASA Jet Propulsion Laboratory, Japan)
13:30 ~ 13:50	Soccer Video Summarization Using Deep Learning Rockson Agyeman (Yeungnam University); Rafiq Muhammad (Yeungnam University); Gyu Sang Choi (Yeungnam University)
13:50 ~ 14:10	Image-Based Estimation of Real Food Size for Accurate Food Calorie Estimation Takumi Ege (Univ. Electro-Comm., Tokyo); Yoshikazu Ando(Univ. Electro-Comm., Tokyo); Ryosuke Tanno(Univ. Electro-Comm., Tokyo); Wataru Shimoda(Univ. Electro-Comm., Tokyo); Keiji Yanai(Univ. Electro-Comm., Tokyo)
14:10 ~ 14:30	TU-Net and TDeepLab: Deep Learning-based Terrain Classification Robust to Illumination Changes, Combining Visible and Thermal Imagery Yumi Iwashita (NASA Jet Propulsion Laboratory, Japan); Kazuto Nakashima (Kyushu University); Adrian Stoica (NASA Jet Propulsion Laboratory); Ryo Kurazume (Kyushu University)
14:30 ~ 14:50	Efficient Incremental Training for Deep Convolutional Neural Networks Yudong Tao (University of Miami, USA); Yuexuan Tu (University of Miami); Mei-Ling Shyu (University of Miami)
14:50 ~ 15:10	Singing Voice Conversion With Non-Parallel Data

	Xin Chen (Snap Research, Snap Inc); Wei Chu (Snap Research, Snap Inc); Jinxi Guo (University of California, Los Angeles); Ning Xu (Snap Research, Snap Inc)
15:10 ~ 15:30	Very Long Term Field of View Prediction for 360-degree Video Streaming Chenge Li (New York University); Weixi Zhang (New York University); Yong Liu (NYU); Yao Wang (New York University)

March 29	Session: Novel Applications 2 Room: Champagne III Session Chair: Qin Wang (New York Institute of Technology - Nanjing Site)
13:30 ~ 13:50	Automated Athlete Haptic Training System for Soccer Sprinting Fedwa Lamaarti (University of Ottawa); Faisal Arafsha (University of Ottawa); Basim Hafidh (University of Ottawa); Abdulmotaleb EI Saddik (University of Ottawa)
13:50 ~ 14:10	Video-based Prediction for Header-height Control of a Combine Harvester He Liu (Purdue University); Amy Reibman (Purdue University); Aaron Ault (Purdue University); James Krogmeier (Purdue University)
14:10 ~ 14:30	Asynchronous localization of ground objects using a 2-UAV system Ju Wang (Virginia State University); Sagar Pandit (Virginia State University); Ahmed F. Abdelzaher (Virginia State University); Melissa Watts (Virginia State University)
14:30 ~ 14:50	3D Reconstruction of Tubular Structure Using Radially Deployed Projections Mahmut Unan (University of Alabama at Birmingham); Junmo An (University of Houston); Ioannis Seimenis (Democritus University of Thrace (DUTH)); Dipan Shah (Houston Methodist DeBakey Heart & Vascular Center); Nikolaos Tsekos (University of Houston)
14:50 ~ 15:10	Game Theoretical Multi-User Computation Offloading for Mobile-Edge Cloud Computing An Qin (Nanjing University of Posts and Telecommunications); Chengcheng Cai (Nanjing Tech University); Qin Wang (New York Institute of Technology - Nanjing Site); Yiyang Ni (Jiangsu Second Normal University); Hongbo Zhu (Nanjing University of Posts and Telecommunications)
15:10 ~ 15:30	Efficient and QoS-aware Drone Coordination for Simultaneous Environment Coverage Petra Mazdin (Universität Klagenfurt); Bernhard Rinner (Klagenfurt University)

March 29	Session: Innovation Forum 6 - Video for VR/AR Room: Champagne I Moderator: Haricharan Lakshman (Facebook)
16:00 ~ 18:00	Speakers:

	Adam Gaige (JauntXR) Sam Tsai (Facebook) Shlomo Dubnov (UCSD) Phil Chou (Google)

March 29	Session: Data Management 1 Room: Champagne II Session Chair: Pradeep K. Atrey (University at Albany, SUNY)
16:00 ~ 16:20	Multimedia Data Offloading in Resource-limited Multi-hop Vehicular Networks Elizabeth S Bentley (Air Force Research Laboratory); Joseph Suprenant (Air Force Research Laboratory); Stephen Reichhart (Air Force Research Laboratory)
16:20 ~ 16:40	Distributed Layer-Partitioned Training for Privacy-Preserved Deep Learning Chun-Hsien Yu (HTC Research); Chun-Nan Chou (HTC Research); Emily Chang (HTC Research)
16:40 ~ 17:00	SecureCSearch: Secure Searching in PDF over Untrusted Cloud Servers Meet Shah (GlobalFoundaries); Manoranjan Mohanty (University of Auckland, New Zealand); Pradeep K. Atrey (University at Albany, SUNY)
17:00 ~ 17:20	Threat Intelligence Sharing Community: A countermeasure against Advanced Persistent Threat Sonali Chandel (New York Institute of Technology); Mengdi Yan (New York Institute of Technology); Shaojun Chen (New York Institute of Technology); Huan Jiang (New York Institute of Technology); Tian-yi Ni (New York Institute of Technology)
17:20 ~ 17:40	FIS: Facial Information Segmentation for Video Redaction Bo Chen (University of Illinois at Urbana-Champaign); Klara Nahrstedt (University of Illinois at Urbana-Champaign)
17:40 ~ 18:00	Fine-granularity Ownership Identification of Multimedia Content Components: a Mechanism for Smart Media Streaming Luntian Mou (Beijing University of Technology); Hao Liu (Beijing University of Technology); Hao Ji (Beijing University of Technology); Tiejun Huang (Peking University); Wen Gao (Peking University)

March 29 16:00 ~ 18:00	Session: Demo and Poster paper Room: Champagne Foyer Demo Session Chair: Ramazan Aygun (The University of Alabama in Huntsville) Poster Session Chair: Hyoil Han (Illinois State University)
Demo paper	Visual Decoding of Hidden Watermark in Trained Deep Neural Network Shigeyuki Sakazawa (Osaka Institute of Technology);Emi Myodo (KDDI R&D Research); Kazuyuki Tasaka (KDDI Research, Inc.); Hiromasa Yanagihara (KDDI Research, Inc.)

Demo paper	Fingerprint generation and presentation attack detection using deep neural networks Hakil Kim (Inha University); Xuenan Cui (Inha University); Man-Gyu Kim (Inha University); Binh T. H. Nguyen (Inha University)
Demo paper	Semantic Interaction with Human Motion using Query-Based Recombinant Video Synthesis Vignesh Gokul (University of California San Diego); Ganesh Prasanna Balakrishnan (Worcester Polytechnic Institute); Tammuz Dubnov (Zuzor); Shlomo Dubnov (UC San Diego)
Demo paper	3D Convolutional Neural Network Fusion Model for Lung Nodule Detection Yejin Chen (Huiyinghuiying Inc.); wenxiu shi (Huiyihuiying Inc.); Peng Zhang (Huiying Medical Technology Co. Ltd); Wanshu Zhang (Huiying Medical Technology Co. Ltd); Zhihui Cao (Huiying Medical Technology Co. Ltd); Songzeng Fan (Australian National University)
Poster paper	Performance Comparison of Chunk/Peer Scheduling Algorithms of Peer-to-Peer Streaming Systems Nasru Minallah, (University of Engineering and Technology Peshawar); Syed Saddam Hussain Shah, (University of Engineering and Technology Peshawar); Naina Said, (University of Engineering and Technology Peshawar Pakistan); Waleed khan, (University of Engineering and Technology Peshawra Pakistan); Aysha Nayab, (University of Engineering and Technology Peshawar Pakistan)
Poster paper	Implementation of Augmented Reality Globe in Teaching-Learning Environment Hovhannes Mayilyan (YoungZone Culture Shanghai Co.Ltd)
Poster paper	Automatic Tour Video Summarization Focusing on Scene Change for Advance Touristic Experience Yuki Kanaya (Nara Institute of Science and Technology); Shogo Kawanaka (Nara Institute of Science and Technology); Hirohiko Suwa (Nara Institute of Science and Technology); Yutaka Arakawa (Nara Institute of Science and Technology); Keiichi Yasumoto (Nara Institute of Science and Technology, Japan)

March 29	Session: TCMC Information Session Room: Champagne III
16:00 ~ 18:00	TCMC Information Session

March 29	Session: Banquet Room: Champagne I
19:00 ~ 21:00	Banquet

March 30

March 30	Registration Room: Champagne Foyer
8:00 ~ 18:00	Registration

March 30	Session: Feature Talk Room: Champagne I Session Chair: Min Chen (University of Washington Bothell)
8:30 ~ 9:30	Keynote Speaker: Patrick Griffis (Dolby Laboratories) Title: HDR – From Dream to Mainstream

March 30	Session: Multimedia and Vision 4 Room: Champagne I Session Chair: Neeraj Gadgil (Dolby Laboratories)
10:00 ~ 10:20	Large-Scale Object Detection of Images from Network Cameras in Variable Ambient Lighting Conditions Caleb Tung (Purdue University); Matthew R. Kelleher (Purdue University); Ryan J. Schlueter (Purdue University); Binhan Xu (Purdue University); Yung-Hsiang Lu (Purdue University); George K. Thiruvathukal (Loyola University Chicago/Argonne National Laboratory); Yen-Kuang Chen (Intel Corporation); Yang Lu (Facebook Corporation)
10:20 ~ 10:40	Real-Time Scale-Invariant License Plate Detection Using Cascade Classifiers Elnaz Yousefi (Shahid Beheshti University); Amir Hossein Nazem Deligani (Sharif University of Technology); Jafar Jafari Amirbandi (Islamic Azad University, Science and Research Branch, Tehran); Mohsen Karimzadeh Kiskani (University of California, Santa Cruz)
10:40 ~ 11:00	Single View 3D Face Reconstruction with Landmark Updating Peng Liu (Nanjing University); Yao Yu (Nanjing University); Yu Zhou (Nanjing University); Sidan Du (Nanjing University)
11:00 ~ 11:20	Reverse Tone Mapping of High Dynamic Range Video using Gaussian Process Regression Harshad Kadu (Dolby Labs); Neeraj Gadgil (Dolby Laboratories); Guan-Ming Su (Dolby Labs)
11:20 ~ 11:40	Efficient Video Data Structure for Fabric Wicking Phenomena Studies Chau-Wai Wong (North Carolina State University)

March 30	Session: Machine Learning/Deep Learning/Data Mining 3 Room: Champagne II

	Session Chair: Yao Wang (New York University)
10:00 ~ 10:20	Image Captioning with Clause-Focused Metrics in a Multi-Modal Setting for Marketing Philipp Harzig (University of Augsburg); Dan Zecha (University of Augsburg); Rainer Lienhart (Universitat Augsburg, Germany); Carolin Kaiser (GfK Verein); René Schallner (GfK Verein)
10:20 ~ 10:40	A Variational Autoencoder Based Generative Model of Urban Human Mobility Dou Huang (The University of Tokyo); Xuan Song (The University of Tokyo); Zipei Fan (The University of Tokyo); Renhe Jiang (The University of Tokyo); Ryosuke Shibasaki (The University of Tokyo); Yu Zhang (Hong Kong University of Science and Technology); Haizhong Wang (Oregon State University); Yugo Kato (NAVITIME JAPAN Co)
10:40 ~ 11:00	Layered Image Compression using Scalable Auto-encoder Chuanmin Jia (Peking University); Zhaoyi Liu (Beijing Institute of Technology); Yao Wang (New York University); Siwei Ma (Peking University, China); Wen Gao (Peking University)
11:00 ~ 11:20	High Dimensional Latent Space Variational AutoEncoders for Fake News Detection Saad Sadiq (University of Miami); Nicolas Wagner (University of Miami); Mei-Ling Shyu (University of Miami); Daniel Feaster (University of Miami- Miller school of medicine)
11:20 ~ 11:40	Feature-level and Model-level Audiovisual Fusion for Emotion Recognition in the Wild Jie Cai (University of South Carolina); Zibo Meng (Innopeak Technology Inc.); Ahmed-Shehab Khan (University of South Carolina); Zhiyuan Li (University of South Carolina); James O'Reilly (University of South Carolina); Shizhong Han (12 sigma technologies); Ping Liu (UTS); Min Chen (University of Washington Bothell); Yan Tong (University of South Carolina)

March 30	Session: Systems and Infrastructures 1 Room: Champagne III Session Chair: Yang Lei (HP)
10:00 ~ 10:20	A Novel Remote Eye Gaze Tracking System Using Line Illumination Sources James O'Reilly (University of South Carolina); Ahmed-Shehab Khan (University of South Carolina); Zhiyuan Li (University of South Carolina); Jie Cai (University of South Carolina); Min Chen (University of Washington Bothell); Yan Tong (University of South Carolina); Xiangyu Hu (University of South Carolina)
10:20 ~ 10:40	Analysis of Palette Mode on Versatile Video Coding Yu-Chen Sun (Alibaba Group (U.S.) Inc.); Jian Lou (Alibaba Group (U.S.) Inc.); Yung-Hsuan Chao (Qualcomm Technologies Inc.); Hongtao Wang (Qualcomm

	Technologies Inc.); Vadim,Seregin (Qualcomm Technologies Inc.); Marta Karczewicz (Qualcomm Technologies Inc.)
10:40 ~ 11:00	An Extensible, Flexible, Modular Framework for Classifying Videos on YouTube Using Web and Social Media

Mohamad Hammam Alsafrjalani (University of Miami) |
| 11:00 ~ 11:20 Industrial Program paper | A Big Data Platform for Surface Enhanced Raman Spectroscopy Data with An Application on Image-based Sensor Quality Control

Yiming Zuo (HP Inc.); Rares Vernica (HP); Yang Lei (HP); Steven Barcelo (HP); Anita Rogacs (HP) |
| 11:20 ~ 11:40 Industrial Program paper | Automated Cloud Infrastructure, Continuous Integration and Continuous Delivery using Docker with Robust Container Security

Somya Garg (Ernst & Young); Satvik Garg (Jaypee University of Information Technology) |

| March 30 | Session: AIArt Workshop 1 - Visual Art Creation via AI
Room: Champagne I
Session Chair: Luntian Mou (Beijing University of Technology) |
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| 13:30 ~ 14:00 | Keynote 1: Mei Han, Ping An Technology, US Research Lab at Silicon Valley

Title: AI and Art |
| 14:00 ~ 14:20 | Garment Detectives: Discovering Clothes and Its Genre in Consumer Photos

Shintami Hidayati (SINICA); Kai-Lung Hua (NTUST); Yu Tsao (Academia Sinica); Hong-Han Shuai (National Chiao Tung University); Jiaying Liu (Peking University); Wen-Huang Cheng (EE, NCTU) |
| 14:20 ~ 14:40 | Design and Implementation of Virtual-real Interactive System for Mixed Reality

Xinxin Shi (Communication University of China); Xin Xiang (Communication University of China); Long Ye (Communication University of China) |
| 14:40 ~ 15:00 | When Green Screen Meets Panoramic Videos: An Interesting Video Combination Framework

Chenxi Feng (Communication University of China); Tianyi Feng (Communication University of China); Long Ye (Communication University of China) |
| 15:00 ~ 15:20 | A Generative Adversarial Network for AI-Aided Chair Design

Zhibo Liu (Peking University); Feng Gao (The Future Lab, Tsinghua University) ; Yizhou Wang (Peking University) |

| March 30 | Session: AIArt Workshop 2 - Audio and Other Art Creation via AI
Room: Champagne I
Session Chair: Luntian Mou (Beijing University of Technology) |
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| 16:00 ~ 16:30 | Keynote 2: Jesse Engel |

	Title: Magenta
16:30 ~ 16:50	Monophonic Singing Voice Separation Based on Deep Learning Zhao Zhang (Communication University of China)
16:50 ~ 17:10	From Knowledge Map to Mind Map: Artificial Imagination Ruixue Liu (JD AI Platform & Research); Baoyang Chen (Faculty of School of Experimental Arts; Central Academy of Fine Arts); Xiaoyu Guo (JD AI Platform & Research); Yan Dai (JD AI Platform & Research); Meng Chen (JD AI Platform & Research); Zhijie Qiu (Faculty of School of Experimental Arts; Central Academy of Fine Arts); Xiaodong He (JD AI Research)
17:10 ~ 17:30	Composer4Everyone: Automatic Music Generation with Audio Motif Aozhi Liu (Ping An Technology (Shenzhen)); Jianzong Wang (Ping An Technology (Shenzhen)); Junqing Peng (Ping An Technology (Shenzhen)); Yiwen Wang (Ping An Technology (Shenzhen)); Yaqi Mei (Ping An Technology (Shenzhen)); Xiaojing Liang (Ping An Technology (Shenzhen)); Zimin Xia (Ping An Technology (Shenzhen)); Jing Xiao (Ping An Technology (Shenzhen))
17:30 ~ 17:50	Solving Jigsaw Puzzles via Hausdorff-based Border Compatibility Huang-Chia Shih (Yuan Ze University); Jian-Liang Lu (Yuan Ze University); Chang-Hsian Ma (Yuan Ze University)

March 30	Session: FakeMM workshop 1 Room: Champagne II Session Chair: Pradeep Atrey (University at Albany, SUNY)
13:30 ~ 14:30	Keynote 1: Hany Farid, University of California, Berkeley, USA Title: Detecting Deep Fakes
14:30 ~ 14:50	Do GANs Leave Artificial Fingerprints? Francesco Marra (University Federico II of Naples, Italy); Diego Gragnaniello (University Federico II of Naples, Italy) ; Luisa Verdoliva (University Federico II of Naples, Italy); Giovanni Poggi (University Federico II of Naples, Italy)
14:50 ~ 15:10	Securing Voice-driven Interfaces against Fake (Cloned) Audio Attacks. Hafiz Malik (University of Michigan, Dearborn, USA)
15:10 ~ 15:30	Face Morphing Detection with Three-Channel Convolutional Neural Network based on Multi-Features. Yi Lu (Shanghai Jiao Tong University, China); Xinghao Jiang (Shanghai Jiao Tong University, China); Tanfeng Sun (Shanghai Jiao Tong University, China); Peisong He (Sichuan University)

March 30	Session: FakeMM workshop 2

	Room: Champagne II Session Chair: Pradeep Atrey (University at Albany, SUNY)
16:00 ~ 16:20	Towards Vulnerability Analysis of Voice-Driven Interfaces and Countermeasures for Replay Attacks. Khalid Malik (Oakland University, USA); Hafiz Malik (University of Michigan, Dearborn, USA); Roland Baumann (Oakland University, USA)
16:20 ~ 16:40	Towards Impact Scoring of Fake News. Shivam Parikh (University at Albany, State University of New York, USA); Vikram Patil (University at Albany, State University of New York, USA); Ravi Makawana (University at Albany, State University of New York, USA); Pradeep K. Atrey (University at Albany, State University of New York, USA)

March 30	Session: MMPrag Workshop 1 Room: Champagne III Session Chair: William Grosky (University of Michigan-Dearborn)
13:15 ~ 14:30	Keynote 1: Adam Pease, Infosys Foothills Research, USA Title: Conceptual Pragmatics: A Library of Logical Definitions
14:30 ~ 15:00	Robust Algorithm for Multimodal Deception Detection S. Venkatesh (Norwegian University of Science and Technology (NTNU), Norway); R. Ramachandra (NTNU, Norway); and P. Bours (NTNU, Norway)
15:00~ 15:30	Multimodal Indicators of Humor in Videos Z. Yang (Columbia University, USA); L. Ai (Columbia University, USA); and J. Hirschberg (Columbia University, USA)

March 30	Session: MMPrag Workshop 2 Room: Champagne III Session Chair: Richard Chbeir (Université de Pau et des Pays de l'Adour)
15:45 ~ 17:00	Keynote 2: Amit Sheth, KNO.E.SIS Laboratory, Wright State University, USA Title: On Exploiting Multimodal Information for Machine Intelligence and Natural Interactions – With Examples from Health Chatbots
17:00 ~ 17:30	Metaconcepts: Isolating Context in Word Embeddings P. Sutor (University of Maryland, USA); Y. Aloimonos (University of Maryland), USA; D. Summers-Stay (US Army Research Labs Adelphi, USA); and C. Fermuller, University of Maryland, USA)
17:30 ~ 18:00	Keyword Extraction Performance Analysis A. Kumbhar (University of Michigan-Dearborn (UMD), USA), M. Savargaonkar (UMD, USA), A. Nalwaya (UMD, USA), C. Bian (UMD, USA), and M. Abouelenien (UMD, USA)

March 30	Session: Keynote 3 Room: Champagne II Session Chair: Chengcui Zhang (University of Alabama)
17:00 ~ 18:00	Keynote Speaker: Ruzena Bajcsy (University of California, Berkeley) Title: Multimodal real time assessment of the driver state using, Visual, Acoustic and body motion observations