

Program at a glance (IEEE ISM 2018)

December 10 (Monday)					
Place Time	The Grand Ballroom 1 (13F)	The Grand Ballroom 2 (13F)	Rose 1 (Oral), Rose 2+3 (Poster) (13F)	Plum Blossom 1, 2 (13F)	
07:30 - 17:00	Registration				
08:30 - 08:40	Opening ceremony Dr. Jeffrey J. P. Tsai, President, Asia University, Taiwan		3-Day Poster Showcases (44 papers including Regular, Short, and Poster)		
08:40 - 09:30	Keynote I (AIVR) Dr. Sheng-Wei Chen Session chair: Dr. Jeffrey J. P. Tsai (shared with ISM)				
09:30 - 09:50	Coffee break				
09:50 - 10:40	Keynote II (AIVR) Dr. Vladlen Koltun Session chair: Dr. Jean-Claude Latombe (shared with ISM)				
10:40 - 10:45	Intermission				
10:45 - 12:30		Session 1: Bio-related Applications (Regular x 3 + Short x 3 = 105 min) Session chair: Dr. Naimul Khan			
12:40 - 13:40					Lunch
13:40 - 16:05		Session 2: Image, Video, and Other Applications (Regular x 5 + Short x 3 = 145 min) Session chair: Dr. Chiranjoy Chattopadhyay, Dr. Ichiro Ide			
16:05 - 16:20	Coffee break				
16:20 - 17:40		Session 3: Best paper candidates (Regular x 4 = 80 min) Session chair: Dr. Ramazan Savas Aygun			
17:40 - 18:30	Break				
18:30 - 21:00	Short talks (program reports) Session chair: Dr. Wolfgang Huerst, Dr. Jianquan Liu Reception Olympus Room I (11F)				

December 11 (Tuesday)				
Place Time	The Grand Ballroom 1 (13F)	The Grand Ballroom 2 (13F)	Rose 1 (Oral), Rose 2+3 (Poster) (13F)	Plum Blossom 1, 2 (13F)
07:30 - 17:00	Registration			
08:30 - 09:20	Keynote III (AIVR) Prof. Oussama Khatib Session chair: Dr. Artur Lugmayr (shared with ISM)		3-Day Poster Showcases (44 papers including Regular, Short, and Poster)	
09:20 - 09:50	Coffee break			
09:50 - 10:40	Keynote IV (ISM) Prof. Max Mühlhäuser Session chair: Dr. Robert Mertens (shared with AIVR)			
10:40 - 10:45	Intermission			
10:45 - 11:35	Keynote V (AIVR) Dr. Edward Y. Chang Session chair: Dr. Viswanathan Swaminathan (shared with ISM)			
11:35 - 11:40	Intermission			
11:40 - 12:40		Session 4: Deep Learning (Short x 4 = 60 min) Session chair: Dr. Ling Guan		
12:40 - 13:40				Lunch
13:40 - 16:00			Poster Core Time: 44 Papers (Regular, Short, Poster) Session chair: Dr. Jianquan Liu	
16:00 - 16:20	Coffee break			
16:20 - 18:00		Workshop: MLCSA (100 min) Session chair: Dr. Xian-Hua Han, Dr. Yongqing Sun, Dr. Yuanyuan Wang	Workshop: MR2ARMC (100 min) Session chair: Dr. Rajiv Ratn Shah (Room: Rose 1)	
18:00 - 18:30	Break			
18:30 - 21:00	Banquet & Awards Keynote VI (ISM) Prof. Dick Bulterman Session chair: Dr. Jeffrey J. P. Tsai (shared with AIVR) Olympus Room I (11F)			

December 12 (Wednesday)				
Place Time	The Grand Ballroom 1 (13F)	The Grand Ballroom 2 (13F)	Rose 1 (Oral), Rose 2+3 (Poster) (13F)	Plum Blossom 1, 2 (13F)
07:30 - 17:00	Registration			
08:30 - 09:20	Keynote VII (ISM) Prof. Kien A. Hua Session chair: Dr. Ramazan Savas Aygun (shared with AIVR)		3-Day Poster Showcases (44 papers including Regular, Short, and Poster)	
09:20 - 09:50	Coffee break			
09:50 - 10:40	Keynote VIII (AIVR) Prof. Hiroaki Ogata Session chair: Dr. Chun-Ming Chang (shared with ISM)			
10:40 - 10:45	Intermission			
10:45 - 12:35		Session 5: Video Encoding & Quality (Regular x 1 + Short x 6 = 110 min) Session chair: Dr. Chiranjoy Chattopadhyay		
12:40 - 13:40				Lunch
13:40 - 15:45		Session 6: Audio, Music, Speech (Regular x 4 + Short x 3 = 125 min) Session chair: Dr. Rajiv Ratn Shah		
15:45 - 16:00	Coffee break			
16:00 - 17:00		Workshop: STeMME (60 min) Session chair: Dr. Shi-Huang Chen	Workshop: MTEL (60 min) Session chair: Florian Schimanke (Room: Rose 1)	

Detailed Sessions (IEEE ISM 2018)

Session	PaperID	Title
Session 1: Bio-related Applications (regular: 20 min/paper; short: 15 min/paper) Session chair: Dr. Naimul Khan	34	Khoa Pho, Muhamad Kamal Mohammed Amin and Atsuo Yoshitaka: Segmentation-driven RetinaNet for Protozoa Detection. (Regular paper, 20 minutes)
	42	Tor Jan Derek Berstad, Michael Riegler, Håvard Espeland, Thomas de Lange, Pia Helen Smedsrud, Konstantin Pogorelov, Håkon Kvale Stensland and Pål Halvorsen: Tradeoffs using Binary and Multiclass Neural Network Classification for Medical Multidisease Detection. (Regular paper, 20 minutes)
	68	Yuting Yang, Peisong Shen and Chi Chen: A Robust Iris Segmentation using Fully Convolutional Network with Dilated Convolutions. (Regular paper, 20 minutes)
	18	Meghna Ayyar, Puneet Mathur, Rajiv Ratn Shah and Shree Gopal Sharma: Harnessing AI for Kidney Glomeruli Classification. (Short paper, 15 minutes)
	41	Sara Soltaninejad, Anup Basu and Irene Cheng: Automatic Classification and Monitoring of Denovo Parkinson's Disease by Learning Demographic and Clinical Feature. (Short paper, 15 minutes)
	74	Shimaa Sayed and Moataz Abdelwahab: Malignancy Classification of Lung Nodule Based on Accumulated Multi Planar Views and Canonical Correlation Analysis. (Short paper, 15 minutes)
Session 2: Image, Video, and Other Applications (regular: 20 min/paper; short: 15 min/paper) Session chair: Dr. Chiranjoy Chattopadhyay, Dr. Ichiro Ide	2	Wen Cheng Lai: Voltage Controlled Oscillator with Impedance Spectroscopy for Non-invasive Glucose Application. (Regular paper, 20 minutes)
	3	Martin Oelsch, Basak Gulecyuz and Eckehard Steinbach: MID: A novel contrast metric for the MSER detector. (Regular paper, 20 minutes)
	31	Akinori Sato, Takatsugu Hirayama, Keisuke Doman, Yasutomo Kawanishi, Ichiro Ide, Daisuke Deguchi and Hiroshi Murase: Gaze-inspired Learning for Estimating the Attractiveness of a Food Photo. (Regular paper, 20 minutes)
	38	Wen-Chih Lo, Chih-Yuan Huang and Cheng-Hsin Hsu: Edge-Assisted Rendering of 360° Videos Streamed to Head-Mounted Virtual Reality. (Regular paper, 20 minutes)
	61	Petra Budikova, Michal Batko and Pavel Zezula: Multi-modal Image Retrieval for Search-based Image Annotation with RF. (Regular paper, 20 minutes)
	32	Divya Sharma, Nitin Gupta, Chiranjoy Chattopadhyay and Sameep Mehta: REXplore: A Sketch based Interactive Explorer for Real Estates using Building Floor Plan Images. (Short paper, 15 minutes)
	73	Robert Skupin, Yago Sanchez, Lei Jiao, Cornelius Hellge and Thomas Schierl: Tile-based Rate Assignment for 360-Degree Video based on Spatio-Temporal Activity Measures. (Short paper, 15 minutes)
	76	Qi Lou, Somdeb Sarkhel, Saayan Mitra and Viswanathan Swaminathan: Content-based Effectiveness Prediction of Video Advertisements. (Short paper, 15 minutes)
Session 3: Best paper candidates (regular: 20 min/paper) Session chair: Dr. Ramazan Savas Aygun	12	Li Ren and Kien Hua: Improve Image Description via Embedded Object Structure Graph and Semantic Feature Matching. (Regular paper, 20 minutes)
	40	Mattis Jeppsson, Håvard Espeland, Tomas Kupka, Ragnar Langseth, Andreas Petlund, Peng Qiaoqiao, Chuansong Xue, Konstantin Pogorelov, Michael Riegler, Dag Johansen, Carsten Griwodz and Pål Halvorsen: Efficient Live and on-Demand Tiled HEVC 360 VR Video Streaming. (Regular paper, 20 minutes)
	56	Salah Rabba, Matthew Kyan, Gao Lei, Azhar Quddus, Ali Shahidi Zandi and Ling Guan: Discriminative Robust Gaze Estimation Using Kernel-DMCCA Fusion. (Regular paper, 20 minutes)
	57	Mariem Ben Yahia, Yannick Le Louedec, Gwendal Simon and Loutfi Nuaymi: HTTP/2-Based Streaming Solutions for Tiled Omnidirectional Videos. (Regular paper, 20 minutes)
Session 4: Deep Learning (short: 15 min/paper) Session chair: Dr. Ling Guan	29	Chun-Fu Chen, Jinwook Oh, Quanfu Fan and Marco Pistoia: SC-Conv: Sparse-Complementary Convolution for Efficient Model Utilization on CNNs. (Short paper, 15 minutes)
	63	Zheng Wu, Naimul Khan, Lei Gao and Ling Guan: Deep Reinforcement Learning with Parameterized Action Space for Object Detection. (Short paper, 15 minutes)
	64	Gabriel Mittag and Sebastian Möller: Non-Intrusive Estimation of Packet Loss Rates in Speech Communication Systems Using Convolutional Neural Networks. (Short paper, 15 minutes)
	71	Ehab Ibrahim, Emad Badry, Ahmed Abdelsalam, Ibrahim Abdalla, Mohammed Sayed and Hossam Shalaby: Neural Networks Based Fractional Pixel Motion Estimation for HEVC. (Short paper, 15 minutes)
	52	Saeed Shafiee Sabet, Steven Schmidt, Saman Zadtootaghaj, Carsten Griwodz and Sebastian Moller: Towards Applying Game Adaptation to Decrease the Impact of Delay on Quality of Experience. (Regular paper, 20 minutes)

Session 5: Video Encoding & Quality (regular: 20 min/paper; short: 15 min/paper) Session chair: Dr. Chiranjoy Chattopadhyay	7	Falk Schiffner, Vladimir Bondarenko and Sebastian Möller: Investigation of Video Quality Dimensions for Different Type of Video Content. (Short paper, 15 minutes)
	21	Christian Herglotz, David Müller, Andreas Weinlich, Frank Bauer, Michael Ortner, Marc Stamminger and André Kaup: Improving HEVC Encoding of Rendered Video Data Using True Motion Information. (Short paper, 15 minutes)
	45	Saman Zadtootaghaj, Nabajeet Barman, Steven Schmidt, Maria Martini and Sebastian Möller: NR-GVQM: A No Reference Gaming Video Quality Metric. (Short paper, 15 minutes)
	67	Santiago De-Luxán-Hernández, Heiko Schwarz, Detlev Marpe and Thomas Wiegand: Fast Line-Based Intra Prediction for Video Coding. (Short paper, 15 minutes)
	69	Yusuke Sakamoto, Shintaro Saika, Masaru Takeuchi, Tatsuya Nagashima, Zhengxue Cheng, Kenji Kanai, Jiro Katto, Kaijin Wei, Ju Zengwei and Xu Wei: Light-weight Video Coding Based on Perceptual Video Quality for Live Streaming. (Short paper, 15 minutes)
	26	Ramin Ghaznavi-Youvalari and Alireza Aminlou: Geometry-based Motion Vector Scaling for Omnidirectional Video Coding. (Short paper, 15 minutes)
Session 6: Audio, Music, Speech (regular: 20 min/paper; short: 15 min/paper) Session chair: Dr. Rajiv Ratn Shah	25	Donghuo Zeng, Yi Yu and Keizo Oyama: Audio-Visual embedding for cross-modal music video retrieval through Supervised Deep CCA. (Regular paper, 20 minutes)
	44	Daiki Tanaka and Katunobu Itou: Automatic Electronic Organ Reduction System Based on Melody Clustering Considering Melodic and Instrumental Characteristics. (Regular paper, 20 minutes)
	54	Rodolfo Miranda Pereira, Yandre Maldonado E Gomes Da Costa, Rafael de Lima Aguiar, Alceu de Souza Britto Jr, Luiz Eduardo Soares de Oliveira and Carlos Nascimento Silla Jr.: Representation Learning vs. Handcrafted Features for Music Genre Classification. (Regular paper, 20 minutes)
	66	Yaman Kumar, Rohit Jain, Khwaja Mohd. Salik, Rajiv Ratn Shah, Yifang Yin and Roger Zimmerman: MyLipper : A Personalized System for Speech Reconstruction using Multi-View Visual Feeds. (Regular paper, 20 minutes)
	43	Ryuka Nanzaka, Tsuyoshi Kitamura, Yuji Adachi, Kiyoto Tai and Tetsuya Takiguchi: Spectrum Enhancement of Singing Voice Using Deep Learning. (Short paper, 15 minutes)
	62	Yohei Fuse, Yusuke Yasumi and Tetsuya Takiguchi: Sound Recovery Considering the Vibration Direction of an Object in a Video. (Short paper, 15 minutes)
77	Rafael Zequeira Jiménez, Gabriel Mittag and Sebastian Möller: Effect of Number of Stimuli on Users Perception of Different Speech Degradations. A Crowdsourcing Case Study. (Short paper, 15 minutes)	
All accepted regular, short, and poster-only papers have to present as a poster as well. [17 (regular) + 19 (short) + 8 (poster only) = 44]		
3-Day Poster Showcases Session chair: Dr. Jianquan Liu	15	Takuya Kobayashi, Yusuke Suzuki and Akira Kubota: Audio feature extraction based on sub-band signal correlations for music genre classification.
	20	Min-Hoi Kim, Sung-Ho Chae and Jong-Seon Kim: A Burn-in Potential Region Detection Method for the OLED panel displays.
	23	Jie Xie and Mingying Zhu: Investigation of domain adaptation for acoustic frog species classification.
	27	Joni Räsänen, Marko Viitanen, Jarno Vanne and Timo Hämäläinen: Live Demonstration: Kvazzup 4K HEVC Video Call.
	35	Joose Sainio, Marko Viitanen and Jarno Vanne: Eye Controlled Region of Interest HEVC Encoding.
	46	Yi Yu, Samuel Beuret, Donghuo Zeng and Keizo Oyama: Deep Learning of Human Perception in Audio Event Classification.
	53	Florian Schniederjann, Jana Krahe, Tobias Guth, Johanna Wendel and Robert Mertens: Using Linear and Non-Linear Magnifiers in Eyetracking-Based Human Computer Interaction.
	70	Fan Liu and Zewen Li: A Text-based CAPTCHA Cracking System with Generative Adversarial Networks.
	34	Khoa Pho, Muhamad Kamal Mohammed Amin and Atsuo Yoshitaka: Segmentation-driven RetinaNet for Protozoa Detection.
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Workshop: MLCSA (20 min / paper) Session chair: Dr. Xian-Hua Han, Dr. Yongqing Sun, Dr. Yuanyuan Wang	MLCSA-02	Pin-Hsien Liu, Zhen-You Liao, Chih-Yang Lin, Cheng-Hung Chuang, Chung-Lin Huang, Yuan-Yu Tsai: Two Staged Machine Learning Network for Spine Segmentation and Recognition. (20 minutes)
	MLCSA-03	Minori Uno, Xian-Hua Han and Yen-Wei Chen: Comprehensive Study of Multiple CNNs Fusion for Fine-Grained Dog Breed Categorization. (20 minutes)
	MLCSA-04	Honoka Kakimoto, Yuanyuan Wang, Yukiko Kawai and Kazutoshi Sumiya: Extraction of Movie Trailer Biases Based on Editing Features for Trailer Generation. (20 minutes)
	MLCSA-05	Ashok Shrestha, Truong Tran, Ramazan Aygun and Marc Pusey: Mobile Scanner for Protein Crystallization Plates. (20 minutes)
	MLCSA-06	Kari Siivonen, Joose Sainio, Marko Viitanen, Jarno Vanne, Timo D. Hämäläinen: Open Framework for Error-Compensated Gaze Data Collection with Eye Tracking Glasses. (20 minutes)
Workshop: MR2AMC (20 min / paper) Session chair: Dr. Rajiv Ratn Shah	MR2AMC-01	Yue Jiang, Mun-Cheon Kang, Ming Fan, Sung-Ho Chae and Sung-Jea Ko: A Fast and Robust Algorithm for Fundamental Matrix Estimation with Applications to Visual Odometry. (20 minutes)
	MR2AMC-02	Yaman Kumar, Agniv Sharma, Abhigyan Khaund, Akash Kumar, Ponnurangam Kumaraguru, Rajiv Ratn Shah and Roger Zimmerman: IceBreaker: Solving Cold Start Problem for Video Recommendation Engines. (20 minutes)
	MR2AMC-04	Zeeshan Ahmad and Naimul Khan: Towards Improved Human Action Recognition using Convolutional Neural Networks and Multimodal Fusion of Depth and Inertial Sensor Data. (20 minutes)
	MR2AMC-05	Marcio Moreno, Wallas H. S. Dos Santos, Rodrigo C. M. Santos, Patricia Carrion and Renato Cerqueira: Supporting Multimedia Retrieval in Annotated Content using Hyperknowledge. (20 minutes)
	MR2AMC-06	Marcio Moreno, Wallas H. S. Dos Santos, Rodrigo C. M. Santos and Renato Cerqueira: Supporting Knowledge Creation through HAS: The Hyperknowledge Annotation System. (20 minutes)
Workshop: MTEL (20 min / paper) Session chair: Florian Schimanke	MTEL-03	Florian Schimanke, Robert Mertens, Bettina Sophie Huck: Player Types in Mobile Learning Games – Playing Patterns and Motivation. (20 minutes)
	MTEL-04	Hanjian Song, Lihua Tian, Chen Li: 3D Convolutional Network Based Foreground Feature Fusion. (20 minutes)
	MTEL-05	Setia Budi, Oscar Karnalim, Erico D. Handoyo, Sulaeman Santoso, Hapnes Toba, Huyen Nguyen, Vishv Malhotra: IBAtS - Image Based Attendance System: A Low Cost Solution to Record Student Attendance in a Classroom. (20 minutes)
Workshop: STeMME (20 min / paper) Session chair: Dr. Shi-Huang Chen	STeMME-010	Jun-Xiang Xu, Tzu-Ching Lin, Tsai-Ching Yu, Tzu-Chiang Tai, Pao-Chi Chang: Acoustic Scene Classification Using Reduced MobileNet Architecture. (20 minutes)
	STeMME-020	Sylvio Barbon Junior, Victor G. Turrisi da Costa, Shi-Huang Chen, Rodrigo Capobianco Guido: U-healthcare system for pre-diagnosis of Parkinson's disease from voice signal. (20 minutes)
	STeMME-030	Zhen-Yu Gu, Chang-Hong Lin, Yu-Hao Chin, and Jia-Ching Wang: Speaker Change Detection Using Model Verification. (20 minutes)
	STeMME-040	Le Dinh Nguyen, Sih-Huei Chen, Tzu-Chiang Tai, Jia-Ching Wang: Single-channel Speech Separation based on Gaussian Process Regression. (20 minutes)