

## MIPR 2022 Program Details (Pacific Time GMT-07)

### August 2 (Tuesday)

August 2	Session: Keynote 1 Session Chair: Yong Rui (Lenovo Group)
6:50 ~ 7:00	Welcome from conference chair
7:00 ~ 8:00	Keynote Speaker: Jian Pei (Simon Fraser University)  Title: Towards Trustworthy Data Science: Interpretability, Fairness and Marketplaces

August 2	Session: Innovation Forum 1 - Hardware and Software Acceleration for AI Applications Moderator: Xin Chen (Intel)
8:10 ~ 10:10	Speakers: Cong Xu (Hewlett Packard Labs) Bin Ren (William & Mary University) Lingzhi Liu (Kuaishou Technology) Jian Zhang (SambaNova Systems)

August 2	Session 1: Learning and Classification Session Chair: Chih-Fan Hsu (Inventec Inc.)
10:20 ~ 10:40	Feature Compression for Rate Constrained Object Detection on the Edge  Zhongzheng Yuan (New York University)*; Samyak K Rawlekar (New York University); Siddharth Garg (New York University); Elza Erkip (New York University); Yao Wang (New York University)
10:40 ~ 11:00	CAPT: Contrastive Pre-Training based Semi-Supervised Open-Set Learning  ZHUOYI WANG (University of Texas at Dallas)*; Yibo Hu ( University of Texas at Dallas); Latifur Khan (The university of Texas at Dallas); Kevin Hamlen (University of Texas at Dallas); Bhavani Thuraisingham (The University of Texas at Dallas)
11:00 ~ 11:20	A Robust Collaborative Learning Framework Using Data Digests and Synonyms to Represent Absent Clients  Chih-Fan Hsu (Inventec Crop.)*; Ming-Ching Chang (University at Albany - SUNY); Wei-Chao Chen (Inventec Corp.)
11:20 ~ 11:40	AgileGCN  Qisheng He (Wayne State University)*; Soumyanil Banerjee (Wayne State University); Loren Schwiebert (Wayne State University); Ming Dong (Wayne State University)
11:40 ~ 12:00	Aerial Image Classification through Thin Lenseless Camera

	Chris Henry (University of Missouri-Kansas City)*; Birendra Kathariya (University of Missouri-Kansas City); M. Salman Asif (University of California, Riverside); Zhu Li (University of Missouri-Kansas City); George York (US Air Force Academy)
12:00 ~ 12:20	SimpleView++: Neighborhood Views for Point Cloud Classification  Shivanand Venkanna Sheshappanavar (University of Delaware)*; Chandra Kambhamettu (University of Delaware)

August 2	Session 2: Learning and Content Analysis Session Chair: Tsung-Wei Huang(Dolby Labs)
10:20 ~ 10:40	Learning Rotational Invariant Dictionary for Sparse Coding based Key-point Detection  Phuoc-Thanh Hong (Ryerson)*; Ling Guan (Ryerson University)
10:40 ~ 11:00	Video Origin Camera Identification using Ensemble CNNs of Positional Patches  Maryna Veksler (Florida International University)*; Ramazan Aygun (Kennesaw State University); Kemal Akkaya (Florida International University); S.S. Iyengar (Florida International University)
11:00 ~ 11:20	Interpretable Learning-Based Multi-Modal Hashing Analysis for Multi-View Feature Representation Learning  Lei Gao (Ryerson University)*; Ling Guan (Ryerson University)
11:20 ~ 11:40	Improving Angular Estimation Using a Deep CNN Network in 6D Pose Estimation  Ju Wang (Virginia State University)*; Wei-Bang Chen (Virginia State University)
11:40 ~ 12:00	Sparse Tensor-based Point Cloud Attribute Compression  Jianqiang Wang (Nanjing University); Zhan Ma (Nanjing University)*
12:00 ~ 12:20	Break

August 2	Session 3: Video Coding, Robotics Session Chair: Neeraj Gadgil (Ittiam Systems)
12:30 ~ 12:50	Machine-Learning Based High Efficiency Rate Control for AV1  Yi Chen (City University of Hong Kong); Yunhao Mao (City University of Hong Kong); Shiqi Wang (City University of Hong Kong); Xianguo Zhang (Tencent); Sam Kwong (City Univeristy of Hong Kong)*
12:50 ~ 13:10	Recursive Randomized Tree Coding of Speech  Jerry Gibson (UC Santa Barbara ECE)*; Hoontaek Oh (UC Santa Barbara ECE)
13:10 ~ 13:30	Information-Seeking in Localization and Mission Planning of Multi-Agent Systems  Kyriakos Lite (University of Klagenfurt); Bernhard Rinner (Klagenfurt University)*
13:30 ~ 13:50	Fast VVC Intra Coding by Skipping Redundant Coding Block Structures and Unnecessary Directional Partition

	Ziheng Zhang ( Nanjing University of Science and Technology); Changhong Fu (Nanjing University of Science and Technology)*; Kai Xie ( Nanjing University of Science and Technology); Hong Hong (Nanjing University of Science and Technology); Guan-Ming Su (Dolby Labs)
13:50 ~ 14:10	Evolution of AVIF Encoder: Speed and Memory Optimizations  Ranjit Kumar Tulabandu (Ittiam Systems Pvt Ltd); Jayasanker Jayaprakash (Ittiam Systems Pvt Ltd); Sanampudi Venkata (Ittiam Systems Pvt Ltd); Cherma Rajan A (Ittiam Systems Pvt Ltd); Neeraj Gadgil (Ittiam Systems Pvt Ltd)*; Frank Galligan (Google LLC); Wan-Teh Chang (Google LLC)
14:10 ~ 14:30	Learning to Predict on Octree for Scalable Point Cloud Geometry Coding  Yixiang Mao (New York University)*; Yueyu Hu (New York University); Yao Wang (New York University)

August 2	Session 4: New Applications Session Chair: Yi Wei (Samsung Research)
12:30 ~ 12:50	Enabling Automatic Cinematography with Reinforcement Learning  zixiao yu (Michigan State University)*; Chenyu Yu (Rensselaer Polytechnic Institute); Haohong Wang (TCL Research America, USA); Jian Ren (Michigan State University)
12:50 ~ 13:10	Spatially Isotropic 3D Volumetric Reconstruction of Live Biological Cells with Multi-View Geometry  Yang Lei (HP)*; Viktor Shkolnikov (HP); Daisy Xin (HP)
13:10 ~ 13:30	GARGI: Selecting Gaze-Aware Representative Group Image from a Live Photo  Omkar Kulkarni (University at Albany, SUNY)*; Shashank Arora (University at Albany, SUNY); Pradeep K. Atrey (University at Albany, SUNY)
13:30 ~ 13:50	Creative Improvised Interaction with Generative Musical Systems  Shlomo Dubnov (UC San Diego)*; Gerard Assayag (); Vignesh Gokul (University of California San Diego)
13:50 ~ 14:10	Real-Time Super-Resolution for Real-World Images on Mobile Devices  Jie Cai (InnoPeak Technology, Inc.)*; Zibo Meng (Innopeak Technology Inc.); Jiaming Ding (Innopeak Technology); Chiuman Ho (OPPO US R&D)
14:10 ~ 14:30	Break

August 2	Session 5: Learning and Classification Session Chair: Ping Liu (Institute of High Performance Computing, A*STAR)
14:40 ~ 15:00	RE2L: A Real-World Dataset for Outdoor Low-Light Image Enhancement

	Yuxin Lin (Nanyang Technological University); Jian Li (Nanyang Technological University Singapore); Lanqing Guo (Nanyang Technological University); Bihan Wen (Nanyang Technological University)*
15:00 ~ 15:20	MOAC: Multi-level Perception Optimizer Based on Dual Augmented Cost for Structure-from-Motion  Peixi Wu (School of Electronic and Computer Engineering, Peking University Shenzhen Graduate School); Ge Li (SECE, Shenzhen Graduate School, Peking University); Thomas H Li (Advanced Institute of Information Technology, Peking University)*
15:20 ~ 15:40	D2-UTransformer: Deep Modulated Dual-UTransformer for Multiple Description Image Enhancement  Congying Cao (Taiyuan University of Science and Technology); Lijun Zhao (Taiyuan University of Science and Technology)*; Jinjing Zhang (North University of China); Xinlu Wang (Taiyuan University of Science and Technology); Anhong Wang (Taiyuan University of Science and Technology)
15:40 ~ 16:00	Attentive Graph Neural Networks for Few-Shot Learning  Hao Cheng (Nanyang Technological University); Joey Tianyi Zhou (Institute of High Performance Computing, A*STAR); Wee Peng Tay (Nanyang Technological University); Bihan Wen (Nanyang Technological University)*
16:00 ~ 16:20	Image Enhancement for Dichromats Using Image Pyramid Based on Saturation  Daisuke Miyazaki (Hiroshima City University)*; Hodaka Tanida (Hiroshima City University)
16:20 ~ 16:40	Surface Normal Estimation of Thin Transparent Objects from Polarization of Transmitted Light  Akihito Watanabe (Hiroshima City University); Daisuke Miyazaki (Hiroshima City University)*

August 2	Session 6: Learning and Content Analysis Session Chair: Fityanul Akhyar (Telkom University)
14:40 ~ 15:00	Skipped-Connection Transformer for Image Captioning  Louliangshan Lou (University of Chinese Academy of Sciences); Ke Lu (University of Chinese Academy of Sciences); Jian Xue (University of Chinese Academy of Sciences)*
15:00 ~ 15:20	CRNet: Collaborative Refinement Network for Self-Supervised Video Object Segmentation  Dexiang Hong (University of Chinese Academy of Sciences ); Guorong Li (University of Chinese Academy of Sciences)*; Bineng Zhong (Guangxi Normal University); Zhenjun Han (University of Chinese Academy of Sciences); Li Su (University of Chinese Academy of Sciences); Qingming Huang (University of Chinese Academy of Sciences)

15:20 ~ 15:40	Disparity-Guided Light Field Video Synthesis with Temporal Consistency Chin-Chia Yang (National Taiwan University)*; Yi-Chou Chen (National Taiwan University); Shan-Ling Chen (National Taiwan University); Homer Chen (National Taiwan University)
15:40 ~ 16:00	Lightning YOLOv4 for a Surface Defect Detection System for Sawn Lumber Fityanul Akhyar (Telkom University); Ledya Novamizanti (Telkom University); Trianusa Putra (Telkom University); Elvin Nur Furqon (Nova Global Pte Ltd); Ming-Ching Chang (University at Albany - SUNY); Chih-Yang Lin (Yuan Ze University)*
16:00 ~ 16:20	Deep Unsupervised Blind Learning for Single Image Super Resolution Kuzuhiko Yamawaki (Yamaguchi University); Xian-Hua Han (Yamaguchi University)*
16:20 ~ 16:40	Action Semantic Alignment for Image Captioning Da Huo (Nagoya University)*; Marc A. Kastner (Kyoto University); Takahiro Komamizu (Nagoya University); Ichiro Ide (Nagoya University)

August 2	Session: Innovation Forum 2 - The Future of Media Compression: Deep Learning Approaches Moderator: Dong Liu (University of Science and Technology of China, China)
16:50 ~ 18:50	Speakers: Shan Liu (Tencent, USA) João Ascenso (University of Lisbon, Portugal) Jiaying Liu (Peking University, China) Zhan Ma (Nanjing University, China)

### August 3 (Wednesday)

August 3	Session: Keynote 2 Session Chair: Klara Nahrstedt (University of Illinois at Urbana-Champaign)
7:00 ~ 8:00	Keynote Speaker: Shih-Fu Chang (Columbia University)  Title: Vision + Language: Multimodal Representation Learning and Unified Transformer

August 3	Session: Innovation Forum 3 - The Future Trending of Metaverse Moderator: Shuxue Quan (Oppo)
8:10 ~ 10:10	Speakers: Ning Bi (Qualcomm) Hong Hua (University of Arizona) Chen Wang (University of Buffalo, SUNY) Yi Xu (Oppo) Martin Renschler (Qualcomm)

August 3	Session 7: Face Analysis Session Chair: Lipeng Ke (Amazon Lab126)
10:20 ~ 10:40	ExpressionHop: A Lightweight Human Facial Expression Classifier  Chengwei Wei (University of Southern California)*; Rafael L Testa (University of São Paulo); Fatima Nunes (Universidade de São Paulo); Ariane M Lima (University of São Paulo); C.-C. Jay Kuo (USC)
10:40 ~ 11:00	Evaluating Image Quality Estimators for Face Matching  Praneet Singh (Purdue University); Haoyu Chen (Purdue University); Edward Delp (Purdue University); Amy R. Reibman (Purdue University)
11:00 ~ 11:20	Detection-by-Simulation: Exposing DeepFake via Simulating Forgery using Face Reconstruction  Jiaran Zhou (Ocean University of China); Yuezun Li (Ocean University of China)
11:20 ~ 11:40	Facial Expression Recognition in the Wild: Dataset Configurations  Nathan Galea (UOM)*; Dylan Seychell (University of Malta)
11:40 ~ 12:00	A Local-Global Metric Learning Method for Facial Expression Animation  Pengcheng Gao (Peng Cheng Laboratory); Bin Huang (University of Chinese Academy of Sciences); Jiayi Lyu (University of Chinese Academy of Sciences); Haifeng Ma (University of Chinese Academy of Sciences); Jian Xue (University of Chinese Academy of Sciences)*
12:00 ~ 12:20	Open-Eye: An Open Platform to Study Human Performance on Identifying AI-Synthesized Faces  Hui Guo ( University at Albany - SUNY ) Shu Hu ( University at Buffalo ) Xin Wang ( University at Buffalo ) Ming-Ching Chang ( University at Albany - SUNY ) Siwei Lyu ( University at Buffalo )

August 3	Session 8: Person, Pose, Gait, VR Session Chair: Zibo Meng (OPPO US Research Center)
10:20 ~ 10:40	Swin-Pose: Swin Transformer Based Human Pose Estimation  Zinan Xiong (University of Massachusetts Lowell)*; Chenxi Wang (University of Massachusetts Lowell); ying li (alibaba); Yan Luo ( The University of Massachusetts Lowell); Yu Cao (University of Massachusetts Lowell)
10:40 ~ 11:00	WASSERSTEIN METRIC ATTACK ON PERSON RE-IDENTIFICATION  Astha Verma (IIIT Delhi)*; A Subramanyam (IIITD); Rajiv Ratn Shah (IIIT Delhi)
11:00 ~ 11:20	Intuitive Gait Modeling using Mimetic-Words for Gait Description and Generation

	Hiroataka Kato (Nagoya university)*; Takatsugu Hirayama (University of Human Environments); Keisuke Doman (Chukyo University); Ichiro Ide (Nagoya University); Yasutomo Kawanishi (RIKEN); Takahiro Komamizu (Nagoya University); Daisuke Deguchi (Nagoya University); Hiroshi Murase (Nagoya University)
11:20 ~ 11:40	Comparison of Virtual-Real Integration Efficiency between Light Field and Conventional Near-Eye AR Displays  Homer Chen (National Taiwan University)*; Wei-An Teng (National Taiwan University); Su-Ling Yeh (National Taiwan University)
11:40 ~ 12:00	Contextual Active Learning for Person Re-Identification  A Subramanyam (IIITD)*; Vineet Joshi (Indraprastha Institute of Information Technology Delhi (IIITD))
12:00 ~ 12:20	Personalized Prediction of Indoor Comfort using Graph Convolutional Matrix Completion  Junyi Liu (State University of New York at Buffalo)*; Esha Naidu (State University of New York at Buffalo); Jialian Wu (State University of New York at Buffalo); Shira Klaiman (State University of New York at Buffalo); Edward Steinfeld (Center for Inclusive Design and Environmental Access, University at Buffalo); Junsong Yuan ("State University of New York at Buffalo, USA")

August 3	Session 9: New Applications Session Chair: Hongkai Yu (Cleveland State University)
12:30 ~ 12:50	Image Based Food Portion Estimation With Depth Domain Adaptation  Gautham Vinod (Purdue University)*; Zeman Shao (Purdue University); Fengqing Maggie Zhu (Purdue University, USA)
12:50 ~ 13:10	Bridging Script and Animation utilizing --- A New Automatic Cinematography Model  Zixiao Yu (Michigan State University)*; Enhao Guo (Henry M. Gunn High School); Haohong Wang (TCL Research America, USA); Jian Ren (Michigan State University)
13:10 ~ 13:30	Rate-Adaptive Streaming of 360-Degree Videos with Head-Motion-Aware Viewport Margins  Mehmet Akcay (Ozyegin University); Burak Kara (Ozyegin University); Ali C. Begen (Ozyegin University)*; Saba Ahsan (Nokia); Igor Curcio (Nokia Technologies); Emre Aksu (Nokia Technologies)
13:30 ~ 13:50	Ultra-Sparse 360-Degree Camera View Synthesis for Immersive Virtual Tourism  Qian Zhou (University of Illinois at Urbana-Champaign)*; Klara Nahrstedt (University of Illinois at Urbana-Champaign)
13:50 ~ 14:10	Multi-Source Weak Supervision Fusion for Disaster Scene Recognition in Videos

	<p>Maria Presa-Reyes (Florida International University); Yudong Tao (University of Miami); Rui Ma (University of Miami); Shu-Ching Chen (Florida International University); Mei-Ling Shyu (University of Miami)</p>
14:10 ~ 14:30	<p>A Review of Personalized Health Navigation for Drivers</p> <p>Luntian Mou ( Beijing University of Technology )</p>

August 3	<p>Session 10: Security, Privacy Session Chair: Chih-Fan Hsu (Inventec Inc.)</p>
12:30 ~ 12:50	<p>License plate privacy in collaborative visual analysis of traffic scenes</p> <p>Saeed Ranjbar Alvar (Simon Fraser University); Korcan Uyanik (Simon Fraser University); Ivan Bajic (Simon Fraser University)</p>
12:50 ~ 13:10	<p>Malware and Piracy Detection in Android Applications</p> <p>Neha Kumari (University of Washington Bothell); Min Chen (University of Washington Bothell)</p>
13:10 ~ 13:30	<p>A Systematic Review of Multimodal Approaches to Online Misinformation Detection</p> <p>Haoming Guo (UC Berkeley)*; Tianyi Huang (University of California, Berkeley); Huixuan Huang (University of California, Berkeley); Mingyue Fan (University of California, Berkeley); Gerald Friedland (University of California, Berkeley)</p>
13:30 ~ 13:50	<p>FedTrust: Towards Building Secure Robust and Trustworthy Moderators for Federated Learning</p> <p>Chih-Fan Hsu (Inventec Corp.)*; Jing-Lun Huang (Inventec Corp.); Feng-Hao Liu (Florida Atlantic University); Ming-Ching Chang (University at Albany - SUNY); Wei-Chao Chen (Inventec Corp.)</p>
13:50 ~ 14:10	<p>An Overview of Recent Work in Multimedia Forensics</p> <p>Kratika Bhagtani (Purdue University); Amit Kumar Singh Yadav (Purdue University); Emily Bartusiak (Purdue University); Ziyue Xiang (Purdue University); Ruiting Shao (Purdue University); Sriram Baireddy (Purdue University); Edward Delp (Purdue University)</p>
14:10 ~ 14:30	<p>Automated Adaptive Playback for Encoder-Adjudicated Live Sports</p> <p>Tankut Akgul (Electronics and Communication Eng. Dept.); Deniz Ugur (Ozyegin University); Ali C. Begen (Ozyegin University)</p>

August 3	<p>Session 11: Image Retrieval Session Chair: János Horváth (Dolby Labs)</p>
14:40 ~ 15:00	<p>Deep Video Stream Information Analysis and Retrieval: Challenges and Opportunities</p>



	Nikolaos Passalis (Aristotle University of Thessaloniki)*; Maria Tzelepi (Aristotle University of Thessaloniki); Polychronis Charitidis (DataScouting); Stavros Doropoulos (DataScouting); Stavros Vologiannidis (International Hellenic University); ANASTASIOS TEFAS (Aristotle University of Thessaloniki)
15:00 ~ 15:20	Multimodal Semantic Consistency Detection on long form News Articles Yuwei Chen (SUNY Albany)*; Ming-Ching Chang (University at Albany - SUNY)
15:20 ~ 15:40	A Noise-robust Locality Transformer for Fine-grained Food Image Retrieval Jiajun Song (Institute of Computing Technology, Chinese Academy of Sciences)*; Weiqing Min (Institute of Computing Technology, Chinese Academy of Sciences); Yuxin Liu (Institute of Computing Technology, Chinese Academy of Sciences); Zhuo Li (ICT, China Academy of Science); Shuqiang Jiang (ICT, China Academy of Science); Yong Rui (Lenovo)
15:40 ~ 16:00	Modeling Fake News Detection Using BERT-CNN-BiLSTM Architecture Jawaher Alghamdi (The Newcastle University)*
16:00 ~ 16:20	A Highly Optimized GPU Batched Elastic-net Solver (BENS) with Application to Real-Time Keypoint Detection for Image Retrieval Zheng Guo (Ryerson University)*; Naimul Khan (Ryerson University); Ling Guan (Ryerson University); Phuoc-Thanh Hong (N/A)
16:20 ~ 16:40	Personalized Fashion Sequential Recommendation with Visual Feature Based on Conditional Hierarchical VAE Keiichi Suekane (Meiji University)*; Ryo Osawa (Meiji University); Aozora Inagaki (Meiji University); Taiga Matsui (airCloset, Inc.); Tomohiro Tanabe (airCloset, Inc.); Keita Ishikawa (airCloset, Inc.); tomohiro takagi (Meiji University)

August 3	Session 12: Action, 3D LiDAR Processing Session Chair: Dawei Du (Kitware Inc.)
14:40 ~ 15:00	Adaptive Acquisition of Airborne LiDAR Point Cloud based on Deep Reinforcement Learning Chengxuan Huang (University of California, Davis); Dalei Wu (University of Tennessee at Chattanooga)*; Yu Liang (University of Tennessee at Chattanooga)
15:00 ~ 15:20	Multiscale point feature object localization for hydrant surveying using LiDAR Gabriel Lugo Bustillo (University of Alberta)*; AMIT UPRETI (University of Alberta); Irene Cheng (University of Alberta)
15:20 ~ 15:40	Generic Action Start Detection Yuxi Zhang (Northeastern University); Ming Chen (OPPO US Research Center)*; Yikang Li (OPPO US Research Center); Jenhao Hsiao (OPPO US Research Center); Octavia Camps (Northeastern University); Chiuman Ho (OPPO US R&D)
15:40 ~ 16:00	Weakly Supervised Temporal Action Localization Through Contrastive Learning

	Cheng Yang (Harbin Institute of Technology)*; Weigang Zhang (Harbin Institute of Technology, Weihai)
16:00 ~ 16:20	Cross-Domain Knowledge Transfer for Skeleton-based Action Recognition based on Graph Convolutional Gradient Reversal Layer  Tom Liao (National Taiwan University); Jun-Cheng Chen (Academia Sinica)*; Shyh-Kang Jeng (National Taiwan University); Chunhwei Tai (National Taiwan University)
16:20 ~ 16:40	BAPO: A Large-Scale Multimodal Corpus for Ball Possession Prediction in American Football Games  Ziruo Yi (University of North Texas)*; Eduardo Blanco (Arizona State University); Heng Fan (University of North Texas); Mark Albert (University of North Texas)

August 3	Session: Innovation Forum 4 - AI for Retails, Self-Driving, AR, Advertising, and Content Creation Moderator: Zhou Ren (Wormpex AI Research)
16:50 ~ 18:50	Speakers: Luoqi Liu (Meitu Inc.) Yuning Jiang (Alibaba Inc.) Xianming Liu (Cruise) Gang Yu (Tencent Inc.)

## August 4 (Thursday)

August 4	Session: Keynote 3 Session Chair: Jay C.-C. Kuo (University of Southern California)
7:00 ~ 8:00	Keynote Speaker: Philip S. Yu (University of Illinois Chicago)  Title: On Recommendations via Deep and Broad Learning

August 4	Session: TCMC Rising Star Award Session Chair: Chengcui Zhang (The University of Alabama at Birmingham)
8:10 ~ 9:10	Speaker: Xin Wang (Tsinghua University)  Title: On Recommendations via Deep and Broad Learning

August 4	Session: Closing Ceremony and Award Session Chair: Guan-Ming Su (Dolby Labs)
9:20 ~ 10:10	

## Tutorial

August 4	Tutorial 1: Video Compression Standards & Software Optimizations
10:20 ~ 12:20	Speaker: Ranjit Kumar Tulabandu (Ittiam Systems) Cherma Rajan (Ittiam Systems) Neeraj Gadgil (Ittiam Systems) Remya Prakasan (Ittiam Systems)

August 4	Tutorial 2: High Dynamic Range Display - Perceptual Concepts and Technologies
12:30 ~ 14:30	Speaker: Timo Kunkel (Dolby Labs)

August 4	Tutorial 3: DeepFake Creation, Detection and Obstruction
14:40 ~ 16:40	Speaker: Yuezun Li (Ocean University of China) Siwei Lyu (University at Buffalo, SUNY)

## Workshop MCAUIS: Multimedia Computing for Automated Urban Intelligent Systems

August 4	MCAUIS Session 1: Welcome and Keynote Session Chair: Balasubramanian Raman (IIT Roorkee, India)
10:20 ~ 10:25	Welcome from conference chair
10:25 ~ 11:20	Keynote Speaker: Kiran B. Raja (Norwegian University of Science and Technology, Gjøvik, Norway)  Title: Biometric Template Protection and Key Generation using Elliptic Curves

August 4	MCAUIS Session 2: Main Session Chair: Pratik Narang and Jagat Sesh Challa (BITS Pilani, India)
11:25 ~ 11:50	Automatic Evaluation of Machine Generated Feedback For Text and Image Data  Pratham Goyal, Anjali Raj (Indian Institute of Technology Roorkee), Puneet Kumar, Kishore Babu Nampalle (Indian Institute of Technology Kharagpur)
11:50 ~ 12:15	Fine-tuning the Robust Temporal Feature Magnitude model for enhancing the accuracy of anomaly detection  Charan Charupalli (National Institute of Technology, Andhra Pradesh, India), Karthick Seshadri (National Institute of Technology, Andhra Pradesh, India)

12:15 ~ 12:40	An Efficient Multi-Functional Deep Learning Model for Effective Medical Image Classification Using Skin Lesion Database  Kishore Babu Nampalle (Indian Institute of Technology Roorkee, India), Balasubramanian Raman (Indian Institute of Technology Roorkee, India)
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### Workshop MAWA: Multimedia for Agriculture and Water Applications

August 4	MAWA Session 1: Session Chair: Mukesh Saini (IIT Ropar)
10:20 ~ 11:20	Keynote: Prof. Dhananjay Singh, Hankuk University of Foreign Studies, South Korea  Title: IoT and Agriculture
11:20 ~ 11:40	Active Genetic Learning with Evidential Uncertainty for Identifying Mushroom Toxicity  Oguz Aranay (University At Albany ); Pradeep K. Atrey (University at Albany, SUNY)
11:40 ~ 12:00	Cattle Collar: An End-to-End Multi-Model Framework for Cattle Monitoring  Garima Singhal (IIT Ropar)*; Neeraj Goel (IIT ROPAR); Priyankar Choudhary (IIT Ropar)
12:00 ~ 12:20	Cloud Removal in Satellite Imagery using Adversarial Network and RGB-optical data fusion  Sushil Ghildiyal (IIT Ropar)*; Neeraj Goel (IIT ROPAR); Mukesh Saini (IIT Ropar)