IEEE 4th International Conference on Multimedia Information Processing and Retrieval (IEEE MIPR 2021)

Wed, Sep 08, 2021
9:00am - 9:30am, Sep 8
Opening Ceremony

9:30am - 10:30am, Sep 8
Keynote 1: Two Innovative Applications in Multimedia Information Processing and Retrieval
Speaker: Kien A. Hua (University of Central Florida, USA)

10:40am - 12:20pm, Sep 8
Oral Session 1
Host: Vincent Oria (New Jersey Institute of Technology, USA)

● Cross-Domain Person Re-identification with Identity-Preserving Style Transfer
Shixing Chen (Wayne State University, USA), Caojin Zhang (Wayne State University, USA), Ming Dong (Wayne State University, USA), Chengcui Zhang (The University of Alabama at Birmingham, USA) 10:40am - 11:00am, Sep 8

● Weakly-Supervised Damaged Building Localization and Assessment with Noise Regularization
Maria Presa-Reyes (Florida International University, USA), Shu-Ching Chen (Florida International University, USA) 11:00am - 11:20am, Sep 8

● A Manifold Semantic Canonical Correlation Framework for Effective Feature Fusion
Zheng Guo (Ryerson University, Canada), Lei Gao (Ryerson University, Canada), Ling Guan (Ryerson University, Canada) 11:20am - 11:40pm, Sep 8

● An Interactive Cooking Support System for Short Recipe Videos Based on User Browsing Behavior
Takuya Yonezawa (Kwansei Gakuin University), Yuanyuan Wang (Yamaguchi University), Yukiko Kawai (Kyoto Sangyo University; Osaka University), Kazutoshi Sumiya (Kwansei Gakuin University) 11:40am - 12:00pm, Sep 8
Topic Detection for Video Stream Based on Geographical Relationships and Its Interactive Viewing System
Itsuki Hashimoto (Kwansei Gakuin University), Yuanyuan Wang (Yamaguchi University), Yukiko Kawai (Kyoto Sangyo University; Osaka University), Kazutoshi Sumiya (Kwansei Gakuin University) 12:00pm - 12:20pm, Sep 8

12:30pm - 1:10pm, Sep 8
Sponsors Lunch Session 1

1:20pm - 2:20pm, Sep 8
Keynote 2
Speaker: Akio Yamada (NEC Corporation, Japan)

2:30pm - 3:50pm, Sep 8
Oral Session 2
Host: Shuqiang Jiang (Chinese Academy of Sciences, China)
- Augmented Tai-Chi Chuan Practice Tool with Pose Evaluation
  Yao-Fu Jan (National Taiwan University, Taiwan), Kuan-Wei Tseng (National Taiwan University, Taiwan), Peng-Yuan Kao (National Taiwan University, Taiwan), Yi-Ping Hung (National Taiwan University, Taiwan) 2:30pm - 2:50pm, Sep 8
- Learning-Based Tensor Decomposition with Adaptive Rank Penalty for CNNs Compression
  Deli Yu (University of Chinese Academy of Sciences, China; Chinese Academy of Sciences, China), Peipei Yang (Chinese Academy of Sciences, China; University of Chinese Academy of Sciences, China), Cheng-Lin Liu (Chinese Academy of Sciences, China; University of Chinese Academy of Sciences, China) 2:50pm - 3:10pm, Sep 8
- An Empirical Study of the Effects of Sample-Mixing Methods for Efficient Training of Generative Adversarial Networks
  Makoto Takamoto (Biometrics Research Laboratories, NEC, Japan), Yusuke Morishita (Biometrics Research Laboratories, NEC, Japan) 3:10pm - 3:30pm, Sep 8
- TLV-Bandit: Bandit Method for Collecting Topic-Related Local Tweets
  Carina Miwa Yoshimura (University of Tsukuba, Japan), Hiroyuki Kitagawa (University of Tsukuba, Japan) 3:30pm - 3:50pm, Sep 8

4:00pm - 5:30pm, Sep 8
TCMC Award Sessions 1
2019 TCMC Rising Star Award 4:00pm - 4:30pm, Sep 8
2020 TCMC Rising Star Award 4:30pm - 5:00pm, Sep 8
2021 TCMC Mid-term Career Award 5:00pm - 5:30pm, Sep 8
Poster & Demo Session 1

Host: Yoko Yamakata (The University of Tokyo, Japan), Qiang Ma (Kyoto University, Japan)

Spotlight: Poster + Demo core 5:40pm - 6:20pm

- Robust Homomorphic Video Hashing
  Priyanka Singh (Dhirubhai Ambani Institute of Information and Communication Technology, India) 6:20pm - 6:40pm

- Buy Me That Look: An Approach for Recommending Similar Fashion Products
  Abhinav Ravi (Data Sciences Myntra, India), Sandeep Repakula (Data Sciences Myntra, India), Ujjal Kr Dutta (Data Sciences Myntra, India), Maulik Parmar (Data Sciences Myntra, India) 6:20pm - 6:40pm

- Exploring the Spatial-Visual Locality of Geo-Tagged Urban Street Images
  Abdullah Alfarrarjeh (German Jordanian University, Jordan), Xiao Yang (University of Southern California, USA), Amani Abu Jabal (German Jordanian University, Jordan), Seon Ho Kim (University of Southern California, USA), Cyrus Shahabi (University of Southern California, USA) 6:20pm - 6:40pm

- Recalibration of Structured-Light RGB-D Cameras with Parametric Depth Error Correction
  Peng-Yuan Kao (National Taiwan University, Taiwan), Sheng-Wen Shih (National Chi Nan University, Taiwan), Yi-Ping Hung (National Taiwan University, Taiwan), Aye Mon Tun (National Chi Nan University, Taiwan) 6:20pm - 6:40pm

- Transformer Based Neural Network for Fine-Grained Classification of Vehicle Color
  Yingjin Wang (Beijing University of Posts and Telecommunications, China), Chuanming Wang (Beijing University of Posts and Telecommunications, China), Yuchao Zheng (Beijing University of Posts and Telecommunications, China), Huiyuan Fu (Beijing University of Posts and Telecommunications, China), Huadong Ma (Beijing University of Posts and Telecommunications, China) 6:20pm - 6:40pm

- One-Shot Example Videos Localization Network for Weakly-Supervised Temporal Action Localization
  Yushu Liu (Harbin Institute of Technology, China), Weigang Zhang (Harbin Institute of Technology, China), Guorong Li (University of Chinese Academy of Sciences, China), Li Su (University of Chinese Academy of Sciences, China), Qingming Huang (University of Chinese Academy of Sciences, China) 6:20pm - 6:40pm

- Stochastic Observation Prediction for Efficient Reinforcement Learning in Robotics
  Shisheng Wang (The University of Tokyo, Japan), Hideki Nakayama (The University of Tokyo, Japan) 6:20pm - 6:40pm

- Predicting Human Behavior Using User's Contextual Embedding by Convolution of Action Graph
  Aozora Inagaki (Meiji University, Japan), Shosuke Haji (Meiji University, Japan), Ryoko Nakamura (Meiji University, Japan), Ryo Osawa (Meiji University, Japan), Tomohiro Takagi (Meiji University, Japan), Isshu Munemasa (CyberAgent, Inc., Japan) 6:20pm - 6:40pm
• Predicting Human Behavior with Transformer Considering the Mutual Relationship between Categories and Regions
   Ryo Osawa (Meiji University, Japan), Keiichi Suekane (Meiji University, Japan), Ryoko Nakamura (Meiji University, Japan), Aozora Inagaki (Meiji University, Japan), Tomohiro Takagi (Meiji University, Japan), Isshu Munemasa (CyberAgent, Inc., Japan) 6:20pm - 6:40pm

• Practice-Oriented Real-time Person Occurrence Search System
   Satoshi Yamazaki (NEC Laboratories Singapore, Singapore), Hui Lam Ong (NEC Laboratories Singapore, Singapore), Jianquan Liu (NEC Corporation, Japan), Wei Jian Peh (NEC Laboratories Singapore, Singapore), Hong Yen Ong (NEC Laboratories Singapore, Singapore), Qinyu Huang (NEC Laboratories Singapore, Singapore), Xinlai Jiang (NEC Laboratories Singapore, Singapore) 6:20pm - 6:40pm

• Pop’n Food: 3D Food Model Estimation System from a Single Image
   Shu Naritomi (The University of Electro-Communications, Japan), Keiji Yanai (The University of Electro-Communications, Japan) 6:20pm - 6:40pm

• Are Theme Songs Usable for Anime Retrieval?
   Naoto Homma (Nihon University, Japan), Aiko Uemura (Nihon University, Japan), Tetsuro Kitahara (Nihon University, Japan) 6:20pm - 6:40pm

• Ad Hoc Search on Statistical Data Based on Categorization and Metadata Augmentation
   Taku Okamoto (Graduate School of Kyoto Sangyo University), Hisashi Miyamori (Graduate School of Kyoto Sangyo University) 6:20pm - 6:40pm

• Integrated Cloud-Based System for Endangered Language Documentation and Application
   Min Chen (University of Washington Bothell, USA), Jignasha Borad (University of Washington Bothell, USA), Mizuki Miyashita (University of Montana, USA), James Randall (University of Montana, USA) 6:20pm - 6:40pm

• Kyoto Sightseeing Map 2.0 for User-Experience Oriented Tourism
   Jing Xu (Kyoto University, Japan), Junjie Sun (Kyoto University, Japan), Taishan Li (Kyoto University, Japan), Qiang Ma (Kyoto University, Japan) 6:20pm - 6:40pm

• A Fact-Checking Assistant System for Textual Documents
   Tomoya Furuta (Gifu University, Japan), Yu Suzuki (Gifu University, Japan) 6:20pm - 6:40pm
Special Session: Multi-modal Techniques for Multimedia

- Detection of the Stacked Objects Based on Mask R-CNN
  Jun Wu (Hubei University of Technology, China), Chengtian Yu (Hubei University of Technology, China), Zhiyi Bao (Hubei University of Technology, China), Chunzhi Wang (Hubei University of Technology, China) 9:00am - 9:12am

- Socially Aware Multimodal Deep Neural Networks for Fake News Classification
  Saed Rezayi (University of Georgia, USA), Saber Soleymani (University of Georgia, USA), Hamid R. Arabnia (University of Georgia, USA), Sheng Li (University of Georgia, USA) 9:12am - 9:24am

- Clustering Trajectories via Sparse Auto-Encoders
  Xiaofeng Wu (Wuhan University of Technology, China), Rui Zhang (Wuhan University of Technology, China), Lin Li (Wuhan University of Technology, China) 9:24am - 9:36am

- Multimodal Machine Translation Enhancement by Fusing Multimodal-Attention and Fine-Grained Image Features
  Lin Li (Wuhan University of Technology, China), Turghun Tayir (Wuhan University of Technology, China) 9:36am - 9:48am

Poster & Demo Session 2

Host: Terumi Umematsu (NEC Corporation, Japan), Hideki Nakayama (The University of Tokyo, Japan)

Spotlight: Poster + Demo core 10:00am - 10:40am

- XM2A: Multi-scale Multi-head Attention with Cross Talk for Multi-variate Time Series Analysis 10:40am - 11:00am
  Yash Garg (Arizona State University, USA), K. Selçuk Candan (Arizona State University, USA) 10:40am - 11:00am

- Dynamic Local Geometry Capture in 3D Point Cloud Classification
  Shivanand Venkanna Sheshappanavar (University of Delaware, USA), Chandra Kambhamettu (University of Delaware, USA) 10:40am - 11:00am

- Identifying Maturity Rating Levels of Online Books
  Eric Brewer (Brigham Young University, USA), Yiu-Kai Ng (Brigham Young University, USA) 10:40am - 11:00am

- A Hybrid Image Segmentation Approach for Thermal Barrier Coating Quality Assessments
  Zanyah Ailsworth (Virginia State University), Wei-Bang Chen (Virginia State University), Yongjin Lu (Virginia State University), Xiaoliang Wang (Virginia State University), Melissa Tsui (Commonwealth Center for Advanced Manufacturing), Huda Al-Ghaib (Commonwealth Center for Advanced Manufacturing), Ben Zimmerman (Commonwealth Center for Advanced Manufacturing)
Center for Advanced Manufacturing) 10:40am - 11:00am

- A Novel Correntropy Analysis Method with Application to Multi-view Feature Representation
Lei Gao (Ryerson University, Canada), Ling Guan (Ryerson University, Canada) 10:40am - 11:00am

- Dynamic Topic-Enhanced Memory Networks: Time-Series Behavior Prediction Based on Changing Intrinsic Consciousnesses
Ryoko Nakamura (Meiji University, Japan), Hirofumi Sano (Meiji University, Japan), Aozora Inagaki (Meiji University, Japan), Ryo Osawa (Meiji University, Japan), Tomohiro Takagi (Meiji University, Japan), Isshu Munemasa (CyberAgent, Inc., Japan) 10:40am - 11:00am

- Multi-scale Context Interaction Learning Network for Medical Image Segmentation
WenHao Fang (Yamaguchi University, Japan), Xian-Hua Han (Yamaguchi University, Japan), Xu Qiao (ShanDong University, China), HuiYan Jiang (Northeastern University, China), Yen-Wei Chen (Ritsumeikan University, Japan) 10:40am - 11:00am

- Supplementing Omitted Named Entities in Cooking Procedural Text with Attached Images
Yixin Zhang (Kyoto University, Japan), Yoko Yamakata (The University of Tokyo, Japan), Keishi Tajima (Kyoto University, Japan) 10:40am - 11:00am

- Passenger Flow Estimation with Bipartite Matching on Bus Surveillance Cameras
Shunta Komatsu (Tokyo University of Science, Japan), Ryosuke Furuta (The University of Tokyo, Japan), Yukinobu Taniguchi (Tokyo University of Science, Japan) 10:40am - 11:00am

- A Multi-modal Dataset for Analyzing the Imageability of Concepts Across Modalities
Marc A. Kastner (National Institute of Informatics, Japan), Chihaya Matsuhira (Nagoya University, Japan), Ichiro Ide (Nagoya University, Japan), Shin’ichi Satoh (National Institute of Informatics, Japan) 10:40am - 11:00am

- Integrated Cloud-Based System for Endangered Language Documentation and Application
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- **Pop’n Food: 3D Food Model Estimation System from a Single Image**
  Shu Naritomi (The University of Electro-Communications, Japan), Keiji Yanai (The University of Electro-Communications, Japan)

- **Are Theme Songs Usable for Anime Retrieval?**
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- **Ad Hoc Search on Statistical Data Based on Categorization and Metadata Augmentation**
  Taku Okamoto (Graduate School of Kyoto Sangyo University), Hisashi Miyamori (Graduate School of Kyoto Sangyo University) 10:40am - 11:00am

11:10am - 12:10pm, Sep 9

**TCMC Award Sessions 2**

2019 TCMC Impact Award 11:10am - 11:30am
2020 TCMC Impact Award 11:30am - 11:50am
2021 TCMC Impact Award 11:50am - 12:10pm

12:20pm - 1:00pm, Sep 9

**Sponsors Lunch Session 2**

1:10pm - 2:10pm, Sep 9

**Keynote 3: Exploring Visual Sentiment: From Experimental Psychology to Computational Modeling**
Speaker: Mohan Kankanhalli (Singapore, School of Computing, National University of Singapore)

2:20pm - 3:20pm, Sep 9

**Special Session: Multimedia for RETech 2021: Innovations of Housing and Real Estate Industries**

- **Constructing a Highly Accurate Price Prediction Model in Real Estate Investment using LightGBM**
  Tianqi Li (DEVEL Co., Ltd.), Takuya Akiyama (DEVEL Co., Ltd.), Liang Wei (Tokyo Institute of Technology) 2:20pm - 2:32pm

- **Entity Resolution of Japanese Apartment Property Information Using Neural Networks**
  Youiti Kado (At Home Lab Co., Ltd., Japan), Takashi Hirokata (At Home Lab Co., Ltd., Japan), Koji Matsumura (At Home Lab Co., Ltd., Japan), Xue-Ting Wang (The University of Tokyo, Japan), Toshihiko Yamasaki (The University of Tokyo, Japan) 2:32pm - 2:44pm
● Predicting Inquiry from Potential Renters using Property Listing Information
  Takeshi So (Daito Trust Construction Co., Ltd, Japan), Yuta Arai (Reitaku University, Japan)
  2:44pm - 2:56pm

● Effect of Walkability on Rental Prices in Tokyo
  Aaron Bramson (GA Technologies, Inc., Japan; RIKEN Center for Biosystems Dynamics Research, Japan; Ghent University, Belgium), Megumi Hori (GA Technologies, Inc., Japan)
  2:56pm - 3:08pm

● Preference Analysis of Shopping Malls' Followers and Keyword Recommendation on Twitter
  Mantaro Yamada (The University of Tokyo, Japan), Xueting Wang (The University of Tokyo, Japan), Toshihiko Yamasaki (The University of Tokyo, Japan)
  3:08pm - 3:20pm

3:30pm - 4:50pm, Sep 9

**Oral Session 3**

Host: Toshihiko Yamasaki (The university of Tokyo, Japan)

- Multi-style Transfer Generative Adversarial Network for Text Images
  Honghui Yuan (The University of Electro-Communications, Japan), Keiji Yanai (The University of Electro-Communications, Japan)
  3:30pm - 3:50pm

- FPX-G: First Person Exploration for Graph
  Takahiro Komamizu (Nagoya University, Japan), Shoi Ito (Nagoya University, Japan), Yasuhiro Ogawa (Nagoya University, Japan), Katsuhiko Toyama (Nagoya University, Japan)
  3:50pm - 4:10pm

- Automated Video Labelling: Identifying Faces by Corroborative Evidence
  Andrew Brown (University of Oxford, UK), Ernesto Coto (University of Oxford, UK), Andrew Zisserman (University of Oxford, UK)
  4:10pm - 4:30pm

- Do as We Do: Multiple Person Video-to-Video Transfer
  Mickael Cormier (Karlsruhe Institute of Technology, Germany; Fraunhofer IOSB, Germany), Houraalsadat Mortazavi Moshkenan (Karlsruhe Institute of Technology, Germany), Franz Lörch (Fraunhofer IOSB, Germany), Jürgen Metzler (Fraunhofer IOSB, Germany; Fraunhofer Center for Machine Learning), Jürgen Beyerer (Fraunhofer IOSB, Germany; Karlsruhe Institute of Technology, Germany)
  4:30pm - 4:50pm

4:50pm - 5:20pm, Sep 9

**Award Ceremony & Closing**
Fri, Sep 10, 2021
8:55am - 5:30pm, Sep 10
The 3rd IEEE Workshop on Artificial Intelligence for Art Creation (AIART'21)
Webpage: https://aiart2021.github.io/

- Opening Remark
  Host: Dr. Luntian Mou 8:55am - 9:00am

- Keynote 1: Stylized Cartoon and Animation
  Host: Dr. Ling Fan
  Speaker: Ying-qing Xu (Academy of Arts & Design, Tsinghua University, China) 9:00am - 9:30am

- F1 01: AIBO - A Sicko Brainwave Opera
  Ellen Pearlman (RISEBA University/MIT) 9:30am - 9:45am

- F1 02: Layout Structure Assisted Indoor Image Generation
  Zhijie Qin (Communication University of China), Wei Zhong (Communication University of China), Fei Hu (Communication University of China), Xinyan Yang (Communication University of China), Long Ye (Communication University of China), Qin Zhang (Communication University of China) 9:45am - 10:00am

- F1 03: Violent Scene Detection of Film Videos Based on Multi-task Learning of Temporal-spatial Features
  Zhengxin Zheng (Ministry of Education), Wei Zhong (Communication University of China), Long Ye (Communication University of China), Li Fang (Communication University of China), Qin Zhang (Communication University of China) 10:00am - 10:15am

- F1 04: MUSE: Textual Attributes Guided Portrait Painting Generation
  Xiaodan Hu (University of Illinois at Urbana-Champaign), Pengfei Yu (University of Illinois at Urbana-Champaign), Kevin Knight (DiDi Labs), Heng Ji (University of Illinois at Urbana-Champaign), Bo Li (University of Illinois at Urbana-Champaign), Humphrey Shi (University of Illinois at Urbana-Champaign) 10:15am - 10:30am

- Keynote 2: Multimodal Emotion Recognition in Conversation
  Hostess: Dr. Jiaying Liu
  Speaker: Qin Jin (School of Information, Renmin University of China, China) 10:30am - 11:00am

- F2 05: Text Style Transfer With Decorative Elements
  Yuting Ma (NLPR, Institute of Automation, CAS; School of Artificial Intelligence, UCAS), Fan Tang (Jilin University), Weiming Dong (NLPR, Institute of Automation, CAS; CASIA- LLVision Joint Lab), Changsheng Xu (NLPR, Institute of Automation, CAS; CASIA- LLVision Joint Lab) 11:00am - 11:15am
F2 06: MemoMusic: A Personalized Music Recommendation Framework Based on Emotion and Memory
Luntian Mou (Beijing University of Technology), Jueying Li (University of California), Juehui Li (University of California), Feng Gao (Peking University), Ramesh Jain (University of California), Baocai Yin (Beijing University of Technology) 11:15am - 11:30am

F2 07: Respective Volumetric Heatmap Autoencoder for Multi-person 3D Pose Estimation
Minghao Wang (Communication University of China), Long Ye (Communication University of China), Fei Hu (Communication University of China), Li Fang (Communication University of China), Wei Zhong (Communication University of China), Qin Zhang (Communication University of China) 11:30am - 11:45am

F2 08: Exploring the Application of AI-Generated Artworks for the Study of Aesthetic Processing
Vanessa Utz (Simon Fraser University), Steve DiPaola (Simon Fraser University) 11:45am - 12:00pm

Keynote 3: Facial Action Unit Recognition under Non-full Annotation
Host: Dr. Wen-Huang Cheng
Speaker: Shangfei Wang (School of Computer Science and Technology, University of Science and Technology of China, China) 12:00pm - 12:30pm

Lunch 12:30pm - 2:00pm

Keynote 4: Creating Real Emotions Artificially: Music & Beyond
Host: Dr. Luntian Mou
Speaker: Björn W. Schuller (Artificial Intelligence and the Head of Glam - the Group on Language Audio & Music -at Imperial College London) 2:00pm - 2:30pm

F3 09: The Brain-Machine-Ratio Model for Designer and AI Collaboratio
Ling Fan (Tongji University), Yifang Bao (Tongji University, China), Shuyu Gong (Tongji University), Sida Yan (Tongji University), Harry Jiannan Wang (University of Delaware) 2:30pm - 2:45pm

F3 10: Rethinking of Intangible Cultural Heritage Teaching with Creative Programming in China
Peng Tan (Guangdong University of Technology), Yi Ji (Guangdong University of Technology), Yunqing Xu (School of Art and Design, Guangdong University of Technology) 2:45pm - 3:00pm

F3 11: Design and Development of an Intelligent Pet-type Quadruped Robot
Feng Gao (Peking University), Chengjia Lei (Peng Cheng Laboratory), Xingguo Long (Peng Cheng Laboratory), Jin Wang (Peng Cheng Laboratory), Peiheng Song (Qingdao New Generation Artificial Intelligence Technology Research Institute) 3:00pm - 3:15pm
• F3 12: Smart Portable Musical Simulation System Based on Unified Temperament
  Lin Gan (Tianjin University), Li Lv (Tianjin University), Cuicui Wang (Beijing Normal University), Mu Zhang (Tianjin University) 3:15pm - 3:30pm

• F3 13: Culture-inspired Multi-modal Color Palette Generation and Colorization: A Chinese Youth Subculture Case
  Yufan Li (Tongji University), Jinggang Zhuo (Tongji University), Ling Fan (Tongji University), Harry Jiannan Wang (University of Delaware) 3:30pm - 3:45pm

• Keynote 5: XAIArt: eXplainable Artificial Intelligence and the Arts
  Hostess: Dr. Zijin Li
  Speaker: Nick Bryan-Kinns (Interaction Design and Director of the EPSRC+AHRC Media and Arts Technology Centre for Doctoral Training at Queen Mary University of London) 3:45pm- 4:15pm

• F4 14: A Probabilistic and Random Method for the Generation of Bai Nationality Music Fragments
  Pengcheng Shang (China University of Geosciences), Shan. Ni (China University of Geosciences), Li. Zhou (China University of Geosciences) 4:15pm - 4:30pm

• F4 15: The JinYue Database for Huqin Music Emotion, Scene and Imagery Recognition
  Kejun Zhang (Zhejiang University, China), Xinda Wu (Zhejiang University, China), Ruiyuan Tang (Zhejiang University, China), Qiaqiao Huang (Zhejiang University, China), Changyuan Yang (International User Experience Business Unit), Hui Zhang (Zhejiang University) 4:30pm - 4:45pm

• F4 16: Distinguishing the “strong/weak” in the 60 Jingfang Tones and Their Optimal Distribution
  Gen-fang Chen (Zhejiang Conservatory of Music) 4:45pm - 5:00pm

• F4 17: Dance to Music: Generative Choreography with Music using Mixture Density Networks
  Rongfeng Li (Beijing University of Post and Telecommunication), Meng Zhao (Beijing University of Post and Telecommunication), Xianlin Zhang (Beijing University of Post and Telecommunication), Xueming Li (Beijing University of Post and Telecommunication) 5:00pm - 5:15pm

• F4 18: Music Emotion Recognition through Sparse Canonical Correlation Analysis
  Hongwei Li (Harbin Institute of Technology), Hongjian Bo (Shenzhen Academy of Aerospace Technology), Lin Ma (Harbin Institute of Technology), Lexiang Wang (Harbin Institute of Technology), Haifeng Li (Harbin Institute of Technology) 5:15pm - 5:30pm
9:00am - 11:30am, Sep 10

**Tutorial: Human-centric Media Understanding: Processing, Generation, Re-identification, and Prediction**


- Opening
  Speaker: Zheng Wang (The University of Tokyo, Japan) 9:00am - 9:10am
- Image Restoration and Generation for Human Analysis
  Speaker: Jing Xiao (Wuhan University, China) 9:10am - 9:40am
- Total Generate: Guided Generative Adversarial Networks for Generating Human Faces, Hands, Bodies and Natural Scenes
  Speaker: Hao Tang (ETH Zurich, Switzerland) 9:40am - 10:10am
- Coffee Break 10:10am - 10:30am
- New Trends of Person Re-ID System
  Speaker: Zheng Wang (The University of Tokyo, Japan) 10:30am - 11:00am
- Delving into Spatio-temporal Dependencies: Agent Behavior Forecasting in a Video Sequence
  Speaker: Yuke Li (University of California, Berkeley, USA) 11:00am - 11:30am

12:10pm - 12:50pm, Sep 10

**Sponsors Lunch Session 3 (Spacely)**

1:00pm - 3:00pm, Sep 10

**The Joint Workshop of the third IEEE Workshop on Fake Multimedia and first Workshop on Cross Modal Person Reidentification (Joint Workshops: FakeMM '21 & CM-PRID '21)**


Webpage: [http://mipr.iiitd.edu.in/](http://mipr.iiitd.edu.in/)

- Welcome Note
  Speaker: Pradeep Atrey (University at Albany, USA) 1:00pm - 1:02pm
- FakeMM 1: Detecting and Preventing Faked Mixed Reality
  Fabian Kilger (Technical University of Munich; Chair for IT Security), Alexandre Kabil (IMT Atlantique; Chair Cyber CNI), Volker Tippmann (Fraunhofer Gesellschaft; International Innovation Markets), Gudrun Klinker (Technical University of Munich; FAR Augmented Reality Research Group), Marc-Oliver Pahl (Technical University of Munich) 1:02pm - 1:22pm
FakeMM 2: An Introduction to the JPEG Fake Media Initiative
Frederik Temmermans (Vrije Universiteit Brussel; imec, Leuven, Belgium), Deepayan Bhowmik (University of Stirling), Fernando Pereira (Instituto Superior Técnico, Instituto de Telecomunicações), Touradj Ebrahimi (Multimedia Signal Processing Group, Ecole Polytechnique Fédérale de Lausanne (EPFL)) 1:22pm - 1:42pm

FakeMM 3: Detection of AI-Synthesized Speech Using Cepstral & Bispectral Statistics
Arun Kumar Singh (Indian Institute of Technology), Priyanka Singh (Dhirubhai Ambani Institute of Information and Communication Technology) 1:42pm - 2:02pm

CM-PRID 1: Hardness Prediction for More Reliable Attribute-based Person Re-identification
Lucas Florin (Fraunhofer IOSB), Andreas Specker (Karlsruhe Institute of Technology (KIT), Fraunhofer IOSB), Arne Schumann (Fraunhofer IOSB, Germany; Fraunhofer Center for Machine Learning), Jürgen Beyerer (Fraunhofer IOSB, Germany; Karlsruhe Institute of Technology (KIT) 2:02pm - 2:22pm

FakeMM Panel on Future of Fake Media
Panelists: Aviv Ovadya (Expert on the societal implications of emerging technology, Bay Area, USA), Kai Shu (Illinois Institute of Technology, USA), Touradj Ebrahimi (EPFL, Switzerland) 2:22pm - 3:00pm

3:10pm - 5:10pm, Sep 10

Tutorial: A Master’s Toolbox and Algorithms for Low-latency Live Streaming
Speaker: Ali C. Begen (Ozyegin University, Turkey)