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	10.20-10.40	Development of an Epileptic Seizure Prediction Algorithm Based on R-R Intervals With Temporal Convolutional Networks	Rikumo Ode; Koichi Fujiwara; Miho Miyajima; Toshitaka Yamakawa; Manabu Kano; Taketoshi Maehara
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	9.40-10.00	Unsupervised Disentanglement of Timbral, Pitch, and Variation Features From Musical Instrument Sounds With Random Perturbation	Keitaro Tanaka; Yoshiaki Bando; Kazuyoshi Yoshii; Shigeo Morishima
	10.00-10.20	Estimation of Transfer Coefficients and Signals of Sound-To-Light Conversion Device Blinky Under Saturation	Kosuke Nishida; Natsuki Ueno; Yuma Kinoshita; Nobutaka Ono
	10.20-10.40	Design and Evaluation of Instrument Sound Identification Difficulty for the Deaf and Hard-Of Hearing	Shiho Akaki; Rumi Hiraga; Keiichi Yasu; Keiji Tabuchi; Hiroko Terasawa
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Session			Chair
WedAM1-8 (SS04: Advanced Signal Processing and Machine Learning for Audio and Speech Applications)			Shoji Makino
Date	Time	Title	Author
9 November 2022	9.00-9.20	Hyperbolic Timbre Embedding for Musical Instrument Sound Synthesis Based on Variational Autoencoders	Futa Nakashima; Tomohiko Nakamura; Norihiro Takamune; Satoru Fukayama; Hiroshi Saruwatari
	9.20-9.40	Multi-Task Adversarial Training Algorithm for Multi-Speaker Neural Text-To-Speech	Yusuke Nakai; Yuki Saito; Kenta Udagawa; Hiroshi Saruwatari
	9.40-10.00	Inverse-Free Online Independent Vector Analysis With Flexible Iterative Source Steering	Taishi Nakashima; Nobutaka Ono
	10.00-10.20	Accelerating online algorithm using geometrically constrained independent vector analysis with iterative source steering	Kana Goto; Tetsuya Ueda; Li Li; Takeshi Yamada; Shoji Makino
	10.20-10.40	A Dilated Inception Convolutional Neural Network for Gridless DOA Estimation Under Low SNR Scenarios	Zhi-Wei Tan; Yuan Liu; Andy W. H. Khong
	10.40-11.00	Efficient Low-Latency Convolution With Uniform Filter Partition and Its Evaluation on Real-Time Blind Source Separation	Yui Kuriki; Taishi Nakashima; Kouei Yamaoka; Natsuki Ueno; Yukoh Wakabayashi; Nobutaka Ono; Ryo Sato

Session			Chair
WedPM1-1 (SS05: Advanced Image and Video Processing using Deep Learning)			Chul Lee
Date	Time	Title	Author
9 November 2022	14.00-14.20	Object Segmentation Using Parametric Representation	Hochang Rhee; Hyung Il Koo; Nam Ik Cho
	14.20-14.40	Deep Color Constancy Using Multi-Band NIR	Jeong-Won Ha; Dong-keun Han; Min-Je Park; Jong-Ok Kim
	14.40-15.00	Smooth Panoramic Walkthrough for Adjacent Panoramic Viewpoints With Dense Spherical Matching Points	Kyungjune Lee; Mingyu Jang; Sanghoon Lee; Kim Taewan
	15.00-15.20	Region Adaptive Self-Attention for an Accurate Facial Emotion Recognition	Seongmin Lee; Jeonghaeng Lee; Minsik Kim; Sanghoon Lee

	15.20-15.40	Quality Enhancement of Screen Content Video Using Dual-Input CNN	Zi Yin Huang; Yue Cao; Sik-Ho Tsang; Yui-Lam Chan; Kin-Man Lam
	15.40-16.00	Underwater Image Enhancement Using Realistic Dataset With Turbidity and Color Distortion	Eunpil Park; Eunsung Jo; Jae-Young Sim

Session			Chair
WedPM1-2 (Speech, Language, and Audio 1)			Ashish Panda
Date	Time	Title	Author
9 November 2022	14.00-14.20	Neural Vocoder Feature Estimation for Dry Singing Voice Separation	Jaekwon Im; Soonbeom Choi; Sangeon Yong; Juhan Nam
	14.20-14.40	Adapting GCC-PHAT to Co-Prime Circular Microphone Arrays for Speech Direction of Arrival Estimation Using Neural Networks	Jiahong Zhao; Christian Ritz
	14.40-15.00	A Novel Approach to Structured Pruning of Neural Network for Designing Compact Audio-Visual Wake Word Spotting System	Haotian Wang; Jun Du; Hengshun Zhou; Heng Lu; Yuhang Cao
	15.00-15.20	Hierarchic Temporal Convolutional Network With Attention Fusion for Target Speaker Extraction	Zihao Chen; Wenbo Qiu; Haitao Xu; Ying Hu
	15.20-15.40	Acoustic Model Adaption Using x-Vectors for Improved Automatic Speech Recognition	Meet Soni; Aditya Raikar; Ashish Panda; Sunil Kumar Koppurapu
	15.40-16.00	Acoustic Pornography Recognition Using Convolutional Neural Networks and Bag of Refinements	Lifeng Zhou; Kaifeng Wei; Yuke Li; Yiya Hao; Weiqiang Yang; Haoqi Zhu

Session			Chair
WedPM1-3 (Deep Learning: Algorithm, Implementations, and Applications)			Jen-Tzung Chien
Date	Time	Title	Author
9 November 2022	14.00-14.20	An Optimal Vehicle Counting Framework for Non-Canonical CCTV Placements	Ng Chin Hooi; Edwin Tan Chee Pin; Chiew Yeong Shiong; Lim Mei Kuan

	14.20-14.40	Response Sentence Modification Using a Sentence Vector for a Flexible Response Generation of Retrieval-Based Dialogue Systems	Ryota Yahagi; Akinori Ito; Takashi Nose; Yuya Chiba
	14.40-15.00	End-To-End Stereo Audio Coding Using Deep Neural Networks	Wootae Lim; Inseon Jang; Seungkwon Beack; Jongmo Sung; Taejin Lee
	15.00-15.20	Neural Beamformer With Automatic Detection of Notable Sounds for Acoustic Scene Classification	Sota Ichikawa; Takeshi Yamada; Shoji Makino
	15.20-15.40	DNN-Based Frequency-Domain Permutation Solver for Multichannel Audio Source Separation	Fumiya Hasuike; Daichi Kitamura; Rui Watanabe
	15.40-16.00	Detection Method From 4K Images Using SSD300 Without Retraining	Kei Irie; Kiyoshi Nishikawa

Session			Chair
WedPM1-4 (Signal Image and Information Processing Theory and Methods)			Zhang Ke
Date	Time	Title	Author
9 November 2022	14.00-14.20	PAformer: Visually Indistinguishable Bolt Defect Recognition Based on Bolt Position and Attributes	Wenshuo Lou; Ke Zhang; Yangjie Xiao; Xiwang Guo; Jiacun Wang
	14.20-14.40	Adapted Spectrogram Transformer for Unsupervised Cross-Domain Acoustic Anomaly Detection	Gilles Van De Vyver; Zhaoyi Liu; Koustabh Dolui; Danny Hughes; Sam Michiels
	14.40-15.00	A Two-Stage Cascading Method Based on Finetuning in Semi-Supervised Domain Adaptation Semantic Segmentation	Huiying Chang; Kaixin Chen; Ming Wu
	15.00-15.20	Landmark Management in the Application of Radar SLAM	Shuai Sun; Beth Jelfs; Kamran Ghorbani; Glenn I. Matthews; Chris Gilliam
	15.20-15.40	Parameterization of Dominant Spectral Peak Trajectory for Whisper Speech Recognition	Chang Feng; Xiaolong Wu; Mingxing Xu; Thomas Fang Zheng
	15.40-16.00	Specific Emitter Identification at Different Time Based on Multi-Domain Migration	Jiaxu Liu; Jianqing Li; Jiao Wang; Hao Huang

Session			Chair
WedPM1-5 (Research Review)			Koichi Fujiwara
Date	Time	Title	Author
9 November 2022	14.00-14.20	Long-Term Prognostic Prediction of West Syndrome Based on Scalp EEG Using Convolution Neural Network Autoencoder	Tatsuki Saito; Koichi Fujiwara; Jun Natsume; Ryosuke Suzui
	14.20-14.40	Modification of RRI Data by NBEATS Model	Hongtao Chen, Koichi Fujiwara, Manabu Kano
	14.40-15.00	Transformer With Noise Divider	Mun-Hyung Lee, Seon-Woo Lee, Jung-Mu Choi, Jang-Woo Kwon
	15.00-15.20	Schizophrenia Classification Based on the Natural Language Processing Technology-A Pilot Study	Ying Hsuan Chen; Pei-Yun Lin; Tsung-Tse Ho; Yuh-Jer Chang; Ying-Hui Lai
	15.20-15.40	Signed Graph Balancing Based on Spectral Clustering	Haruki Yokota, Junya Hara, Yuichi Tanaka
	15.40-16.00	Graph Signal Sampling for Multiple Generator Functions	Junya Hara; Yuichi Tanaka

Session			Chair
WedPM1-6 (Signal Processing for Audio and Speech Applications)			Tomoyosi Akiba
Date	Time	Title	Author
9 November 2022	14.00-14.20	Semi-Supervised ASR Based on Iterative Joint Training With Discrete Speech Synthesis	Keiya Takagi; Tomoyosi Akiba; Hajime Tsukada
	14.20-14.40	Analysis of Amplitude and Frequency Perturbation in the Voice for Fake Audio Detection	Kai Li; Yao Wang; Minh Le Nguyen; Masato Akagi; Masashi Unoki
	14.40-15.00	Deep Hashing for Speaker Identification and Retrieval Based on Auditory Sparse Representation	Dung Kim Tran; Masato Akagi ; Masashi Unoki
	15.00-15.20	Divide and Conquer: A Low-Complexity Neural Network for Monophonic Speech Enhancement	Bingxiao Fang; Liang Liu
	15.20-15.40	Domain Adaptation and Language Conditioning to Improve Phonetic Posteriorgram Based Cross-Lingual Voice Conversion	Pin-Chieh Hsu; Nobuaki Minematsu; Daisuke Saito

	15.40-16.00	Von Mises Mixture Model-Based DNN for Sign Indetermination Problem in Phase Reconstruction	Nguyen Binh Thien; Yukoh Wakabayashi; Geng Yuting; Kenta Iwai; Takanobu Nishiura
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Session			Chair
WedPM1-7 (Speech, Language, and Audio 2)			Darane Horndee
Date	Time	Title	Author
9 November 2022	14.00-14.20	Speaker Representation Learning via Contrastive Loss With Maximal Speaker Separability	Zhe Li; Man Wai Mak
	14.20-14.40	Design of Discriminators in GAN-Based Unsupervised Learning of Neural Post-Processors for Suppressing Localized Spectral Distortion	Riku Ogino; Kohei Saijo; Tetsuji Ogawa
	14.40-15.00	Simultaneous Frequency Estimation for Three or More Sinusoids Based on Sinusoidal Constraint Differential Equation	Kenta Yamada, Yoshiki Masuyama, Yukoh Wakabayashi, Nobutaka Ono
	15.00-15.20	Do You Know How Humans Sound? Exploring a Qualification Test Design for Crowdsourced Evaluation of Voice Synthesis Quality	Moe Yaegashi; Susumu Saito; Teppei Nakano; Tetsuji Ogawa
	15.20-15.40	Exploring the Gender Difference on Mandarin Tone Realization in Lombard Speech	Weizhong Zhang; Jian Gong; Kai Sheng; Yuhong Sun; William Bellamy; Xiaoli Ji
	15.40-16.00		

Session			Chair
WedPM1-8 (Data Analytics and Machine Learning)			Chern Hong Lim
Date	Time	Title	Author
9 November 2022	14.00-14.20	Improving Co-SVD for Cold-Start Recommendations Using Sparsity Reduction	Low Jia Ming; Chern Hong Lim; Ian K. T. Tan
	14.20-14.40	Epoch-Wise Double Descent Triggered by Learning a Single Sample	Aoshi Kawaguchi; Hiroshi Kera; Toshihiko Yamasaki
	14.40-15.00	Current Source Localization Using Deep Prior With Depth Weighting	Hajime Yano; Rio Yamana; Ryoichi Takashima; Tetsuya Takiguchi; Seiji Nakagawa

	15.00-15.20	A Proposal for Emotion-Expressive Editor:EmoEditor by Font Changing	Yuki Shimamura; Michiharu Niimi
	15.20-15.40	Traceback Memory Reduction for Three-Sequence Alignment Algorithm With Affine Gap Models	Rui-Ting Chien; Mao-Jan Lin; Yang-Ming Yeh; Yi-Chang Lu
	15.40-16.00	Acceleration of Subspace Learning Machine via Particle Swarm Optimization and Parallel Processing	Hongyu Fu; Yijing Yang; Yuhuai Liu; Joseph Lin; Ethan Harrison; Vinod K. Mishra; C.-C. Jay Kuo

Session			Chair
WedPM2-1 (SS05: Advanced Image and Video Processing using Deep Learning)			Chul Lee
Date	Time	Title	Author
9 November 2022	16.20-16.40	Enhanced Bidirectional Motion Estimation Using Feature Refinement for HDR Imaging	An Gia Vien; Truong Thanh Nhat Mai; Seonghyun Park; Gahyeon Kim; Chul Lee
	16.40-17.00	Fast Asymmetric Bilateral Motion Estimation for Video Frame Interpolation	Jintae Kim; Junheum Park; Chang-Su Kim
	17.00-17.20	Future Object Localization in Autonomous Driving Using Ego-Centric Images and Motions	Seoyoung Jo; Jung-Kyung Lee; Je-won Kang
	17.20-17.40	Restoration of High-Frequency Components in Under Display Camera Images	Youngjin Oh; Gu Yong Park; Nam Ik Cho
	17.40-18.00	Non-Intrusive Speech Intelligibility Estimation Using Deep Learning With Speech Enhancement and Convolutional Layers	Kazushi Nakazawa; Kazuhiro Kondo
	18.00-18.20	Unified Angle Adjustment Network for Image Composition Enhancement	Jinwon Ko; Nyeong-Ho Shin; Seonho Lee; Chang-Su Kim
	18.20-18.40		

Session			Chair
WedPM2-2 (Speech, Language, and Audio 1)			Kasemsit Teeyapan
Date	Time	Title	Author
9 November 2022	16.20-16.40	Automated Audio Captioning With Epochal Difficult Captions for Curriculum Learning	Andrew Koh; Soham Tiwari; Chng Eng Siong

	16.40-17.00	Application of Deep Learning-Based Single-Channel Speech Enhancement for Frequency-Modulation Transmitted Speech	Ying Ma; Xueliang Zhang
	17.00-17.20	An Empirical Study of Training Mixture Generation Strategies on Speech Separation: Dynamic Mixing and Augmentation	Shukjae Choi; Younglo Lee; Jihwan Park; Hyung Yong Kim; Byeong-Yeol Kim; Zhong-Qiu Wang; Shinji Watanabe
	17.20-17.40	Speech Intelligibility Prediction for Hearing Aids Using an Auditory Model and Acoustic Parameters	Benita Angela Titalim; Candy Olivia Mawalim; Shogo Okada; Masashi Unoki
	17.40-18.00	Predicting Speech Fluency in Children Using Automatic Acoustic Features	Lionel Fontan; Shinyoung Kim; Verdiana De Fino; Sylvain Detey
	18.00-18.20	TC-SKNet With GridMask for Low-Complexity Classification of Acoustic Scene	Luyuan Xie; Yan Zhong; Lin Yang; Zhaoyu Yan; Zhonghai Wu; Junjie Wang
	18.20-18.40		

Session			Chair
WedPM2-3 (Deep Learning: Algorithm, Implementations, and Applications)			Masaomi Kimura
Date	Time	Title	Author
9 November 2022	16.20-16.40	Design and Control of a Muscle-Skeleton Robot Elbow Based on Reinforcement Learning	Jianyin Fan; Haoran Xu; Yuwei Du; Jing Jin; Qiang Wang
	16.40-17.00	Non-Autoregressive Speech Recognition With Error Correction Module	Yukun Qian; Xuyi Zhuang; Zehua Zhang; Lianyu Zhou; Xu Lin; Mingjiang Wan
	17.00-17.20	A Method for Adversarial Example Generation by Perturbing Selected Pixels	KAMEGAWA Tomoki; KIMURA Masaomi
	17.20-17.40	A Title Generation Method With Transformer for Journal Articles	MATSUMOTO Riku; KIMURA Masaomi
	17.40-18.00	Catastrophic Forgetting Avoidance Method for a Classification Model by Model Synthesis and Introduction of Background Data	HIRAYAMA Akari; KIMURA Masaomi
	18.00-18.20	Consistency Regularization for GAN-Based Neural Vocoders	Kotaro Onishi; Toru Nakashika

	18.20-18.40	Parallel Training of TN and ITN Models Through CycleGAN for Improved Sequence to Sequence Learning Performance	Md. Mizanur Rahaman Nayan; Mohammad Ariful Haque
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Session			Chair
WedPM2-4 (SS14:Emerging Signal Processing Technology for Medical Applications/ Biomedical Signal Processing and Systems)			Yuttapong Jiraksopakun
Date	Time	Title	Author
9 November 2022	16.20-16.40	Laparoscope Manipulating Robot (LMR) Navigation Using Deep Learning-Based Surgical Instruments Detection	Nyi Nyi Myo; Apiwat Boonkong; Daranee Hormdee; Suphachoke Sonsilphong; Amornthep Sonsilphong; Kovit Khampitak
	16.40-17.00	Human-Machine Interface Device Using Piezoelectric Sensors Based on Facial Muscle Movements for Wheelchair Control	Charoenporn Bouyam; Theerat Saichoo; Nannaphat Siribunyaphat; Yunyong Punsawad
	17.00-17.20	Obstructive Sleep Apnea Classification Using Snore Sounds Based on Deep Learning	Apichada Sillaparaya; Apichai Bhatranand; Chudanat Sudthongkhong; Kosin Chamnongthai; Yuttapong Jiraksopakun
	17.20-17.40	Heart Rate Estimation of Car Driver Using Radar Sensors and Blind Source Separation	Keito Murata; Daichi Kitamura; Ryo Saito; Daichi Ueki
	17.40-18.00	Total Variation Algorithms for PAT Image Reconstruction	Mary Anjaley Josy John; Imad Barhumi
	18.00-18.20	Visual Function and Emotional Regulation in Achromatic Color and Chromatic Color Using Low Resolution Brain Electromagnetic Tomography Analysis (LORETA)	Watchara Sroykham; Yodchanan Wongsawat
	18.20-18.40	Effect of Electrooculography on Electroencephalography Classifying Accuracy in Deep Learning and Reducing Number of Channels in Motor-Imagery Brain-Computer Interface	Musashi Ino; Yoshihiro Kono; Nobuaki Kobayashi

Session			Chair
WedPM2-5 (SS16: Emerging Techniques in Multimedia Data Analytics and Codings)			Patiwet Wuttisarnwattana/Kampol Woradit
Date	Time	Title	Author
9 November 2022	16.20-16.40	Optimal Deep Multi-Route Self-Attention for Single Image Super-Resolution	Nisawan Ngambenjavichaikul; Sovann Chen; Supavadee Aramvith
	16.40-17.00	Object Detection in Aerial Images With Attention-Based Regression Loss	Chandler Timm C. Doloriel; Rhandley D. Cajote
	17.00-17.20	Performance Analysis of JPEG XR With Deep Learning-Based Image Super-Resolution	Taingliv Min; Supavadee Aramvith
	17.20-17.40	MCSNet: Multi-Channel Sharing Network for Single Image Super-Resolution	Wazir Muhammad; Supavadee Aramvith; Watchara Ruangsang
	17.40-18.00	DCAN: Deep Consecutive Attention Network for Video Super Resolution	Talha Saleem; Sovann Chen; Supavadee Aramvith
	18.00-18.20	Wiener Filter-Based Color Attribute Quality Enhancement for Geometry-Based Point Cloud Compression	Jinrui Xing; Hui Yuan; Chen Chen; Wei Gao
	18.20-18.40	Mixed Context Techniques in the Adaptive Arithmetic Coding Process for DC Term and Lossless Image Encoding	Evan Shih; Jian-Jiun Ding

Session			Chair
WedPM2-6 (Signal Processing for Audio and Speech Applications)			Sunao Hara/Sutasinee Thovuttikul
Date	Time	Title	Author
9 November 2022	16.20-16.40	Prediction Method of Soundscape Impressions Using Environmental Sounds and Aerial Photographs	Yusuke Ono; Sunao Hara; Masanobu Abe
	16.40-17.00	Robust Speech Dereverberation Based on Adaptive Weighted Prediction Error Algorithm With Eigenvector Extraction	Yitong Chen; Wen Zhang
	17.00-17.20	Multi-Task Learning for Speech Emotion and Emotion Intensity Recognition	Pengcheng Yue; Leyuan Qu; Shukai Zheng; Taihao Li

	17.20-17.40	Karaoke Generation From Songs: Recent Trends and Opportunities	Preet Patel; Ansh Ray; Khushboo Thakkar; Kahan Sheth; Sapan H Mankad
	17.40-18.00	Multi-Branch Learning for Noisy and Reverberant Monaural Speech Separation	Chao Ma; Dongmei Li
	18.00-18.20	Significance of Quadrature and In-Phase Components for Synthetic Spoofed Speech Detection	Priyanka Gupta; Piyushkumar K. Chodingala; Hemant A. Patil
	18.20-18.40		

Session			Chair
WedPM2-7 (SS20: High Performance Intelligent Technologies for Image and Video Applications)			Jing-Ming Guo
Date	Time	Title	Author
9 November 2022	16.20-16.40	Mammography Quality Evaluation and Model Interpretation Based on CNN-Based Inframammary Fold Classification	Yi-Chong Zeng; Yu-Cheng Wu; Chen-Yen Yeh; Shu-Chi Li; Tzu-Han Chou; Yi-Wen Huang; Giu-Cheng Hsu; Hsian-He Hsu
	16.40-17.00	Hybrid Image Compression Framework Based on Single Image Training	Tien-Ying Kuo; Yu-Jen Wei; Kuan-Yu Su
	17.00-17.20	Highly Robust Action Retrieval Using View-Invariant Pose Feature and Simple Yet Effective Query Expansion Method	Noboru Yoshida; Jianquan Liu
	17.20-17.40	A Unified Compression and Watermarking Scheme for MT-BTC Images	Jing-Ming Guo; Sankarasrinivasan Seshathiri
	17.40-18.00	Fusion With Hierarchical Graphs for Multimodal Emotion Recognition	Shuyun Tang; Zhaojie Luo; Guoshun Nan; Jun Baba; Yuichiro Yoshikawa; Hiroshi Ishiguro
	18.00-18.20	Multi-Stage Superpixel-Based Segmentation Algorithm Using Fully Convolutional Networks and Discriminative Features	Pei-Chi Huang; Jian-Jiun Ding
	18.20-18.40	Deep Learning Acceleration Design Based on Low-Rank Approximation	Chang, Yi-Hsiang; Lee, Gwo Giun; Chen, Shiu-Yu

Session			Chair
WedPM2-8 (Data Analytics and Machine Learning)			Wanus Srimaharaj
Date	Time	Title	Author
9 November 2022	16.20-16.40	Internet of Behavior and Brain Response Identification for Cognitive Performance Analysis	Wanus Srimaharaj; Rounsang Chaisricharoen
	16.40-17.00	Refinement of Utterance Fluency Feature Extraction and Automated Scoring of L2 Oral Fluency With Dialogic Features	Ryuki Matsuura; Shungo Suzuki; Mao Saeki; Tetsuji Ogawa; Yoichi Matsuyama
	17.00-17.20	A Vision Transformer-Based Approach to Bearing Fault Classification via Vibration Signals	Abid Hasan Zim; Aeyan Ashraf; Aquib Iqbal; Asad Malik; Minoru Kuribayashi
	17.20-17.40	Analysis Method for Motion Factors Related to Joint Contact Forces at the Knee During Walking Using Grad-CAM	Satoshi Suwa; Koh Inoue; Ryo Matsuoka
	17.40-18.00	A Dataset and a Lightweight Object Detection Network for Thermal Image-Based Home Surveillance	Zhengqiang Shao; Longbin Yan; Jie Chen; Jingdong Chen
	18.00-18.20	SCQ: Self-Supervised Cross-Modal Quantization for Unsupervised Large-Scale Retrieval	Fuga Nakamura; Ryosuke Harakawa; Masahiro Iwahashi
	18.20-18.40		

Session			Chair
ThAM1-1 (Image Video Multimedia)			Masaaki Ikehara
Date	Time	Title	Author
10 November 2022	9.00-9.20	Single Image Raindrop Removal Using a Non-Local Operator and Feature Maps in the Frequency Domain	Shinya Ezumi; Masaaki Ikehara
	9.20-9.40	Dual-Teacher Distillation for Low-Light Image Enhancement	Jeong-Hyeok Park; Tae-Hyeon Kim; Jong-Ok Kim
	9.40-10.00	Automatic Data Augmentation Method With Improved Interpretability for Image Classification in Computer Vision Applications	Dair Ungarbayev; Osman Demirel; Muhammad Tahir Akhtar
	10.00-10.20	Learning to Sharpen Partially Blurred Image via Iterative Blurred Region Mining and Recovery	Jung Yeh; Wen-Li Wei; Duan-Yu Chen; Jen-Chun Lin

	10.20-10.40	Shape-Bias Evaluation of Pretrained Models Using Image Decomposition	Akinori Iwata; Masahiro Okuda
	10.40-11.00	Proposal of Associative Watermarking Method	Ryoto Kanegae; Masaki Kawamura

Session			Chair
ThAM1-2 (Speech, Language, and Audio 1)			Ying Hu/ Toshio Irino
Date	Time	Title	Author
10 November 2022	9.00-9.20	DMF-Net: A Decoupling-Style Multi-Band Fusion Model for Full-Band Speech Enhancement	Guochen Yu; Yuansheng Guan; Weixin Meng; Chengshi Zheng; Hui Wang; Yutian Wang
	9.20-9.40	Speak Like a Dog: Human to Non-Human Creature Voice Conversion	Kohei Suzuki; Shoki Sakamoto; Tadahiro Taniguchi; Hirokazu Kameoka
	9.40-10.00	Pre-Trained Multimodal End-To-End Network for Spoken Language Assessment Incorporating Prompts	Binghuai Lin; Liyuan Wang
	10.00-10.20	Gated Fusion of Handcrafted and Deep Features for Robust Automatic Pronunciation Assessment	Binghuai Lin; Liyuan Wang
	10.20-10.40	Effective Data Screening Technique for Crowdsourced Speech Intelligibility Experiments: Evaluation With IRM-Based Speech Enhancement	Ayako Yamamoto; Toshio Irino; Shoko Araki; Kenichi Arai; Atsunori Ogawa; Keisuke Kinoshita; Tomohiro Nakatani
	10.40-11.00		

Session			Chair
ThAM1-3 (Deep Learning: Algorithm, Implementations, and Applications)			Kasemsit Teeyapan
Date	Time	Title	Author
10 November 2022	9.00-9.20	Leveraging Pre-Trained Acoustic Feature Extractor for Affective Vocal Bursts Tasks	Bagus Tris Atmaja; Akira Sasou
	9.20-9.40	Flow-Based Variational Sequence Autoencoder	Jen-Tzung Chien; Tien-Ching Luo

	9.40-10.00	Speech Intelligibility Prediction Through Direct Estimation of Word Accuracy Using Conformer	Naoyuki Kamo; Kenichi Arai; Atsunori Ogawa; Shoko Araki; Tomohiro Nakatani; Keisuke Kinoshita; Marc Delcroix; Tsubasa Ochiai; Toshio Irino
	10.00-10.20	DNN-Rule Hybrid Dyna-Q for Sample-Efficient Task-Oriented Dialog Policy Learning	Mingxin Zhang; Takahiro Shinozaki
	10.20-10.40	MoCoVC: Non-Parallel Voice Conversion With Momentum Contrastive Representation Learning	Kotaro Onishi; Toru Nakashika
	10.40-11.00	Controllable Voice Conversion Based on Quantization of Voice Factor Scores	Takumi Isako; Kotaro Onishi; Takuya Kishida; Toru Nakashika

Session			Chair
ThAM1-4 (Biomedical Signal Processing and Systems)			Darane Hormdee
Date	Time	Title	Author
10 November 2022	9.00-9.20	Deep Adaptive Denoising Auto-Encoder Networks for ECG Noise Cancellation via Time-Frequency Domain	Amir Mohammadisrab; Poorya Aghaomidi; Jalil Mazloun; Mohammad Ali Akbarzadeh; Mahdi Orooji; Nader Mokari; Halim Yanikomeroglu
	9.20-9.40	User-Item Recommendation Approaches to Detect Genomic Variant Interactions	Emma Andrade; Nicholas Tom; Mario Banuelos
	9.40-10.00	Teager Energy Cepstral Coefficients for Classification of Dysarthric Speech Severity-Level	Aastha Kachhi; Anand Therattil; Ankur T. Patil; Hardik B. Sailor; Hemant A. Patil
	10.00-10.20	Decoding Emotional Valence from EEG in Immersive Virtual Reality	Guanxiong Pei; Bingjie Li; Taihao Li; Ruohao Xu; Jianmin Dong; Jia Jin
	10.20-10.40	Design of A Wearable System for Hypoxic Training Management Using Blood Oxygenation and Heart Rate	Takuma Kitagawa; Toshitaka Yamakawa
	10.40-11.00	MedBERT: A Pre-Trained Language Model for Biomedical Named Entity Recognition	Charangan Vasantharajan; Kyaw Zin Tun; Ho Thi-Nga;

			Sparsh Jain; Tong Rong; Chng Eng Siong
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Session			Chair
ThAM1-5 (SS21: Recent Advances and Applications in Encrypted Domain)			Simying Ong
Date	Time	Title	Author
10 November 2022	9.00-9.20	Encrypted JPEG Image Retrieval via Huffman-Code Based Self-Attention Networks	Zhixun Lu; Qihua Feng; Peiya Li
	9.20-9.40	Reversible Data Hiding in Encrypted Text Using Paillier Cryptosystem	Asad Malik; Aeyan Ashraf; Hanzhou Wu; Minoru Kuribayashi
	9.40-10.00	Scrambling-Embedding in Partially-Encrypted Images	Koi Yee Ng, Simying Ong
	10.00-10.20	Image Classification Using Vision Transformer for EtC Images	Genki HAMANO; Shoko IMAIZUMI; Hitoshi KIYA
	10.20-10.40	Image Watermarking Based on Saliency Detection and Multiple Transformations	Ahmed Khan; KokSheik Wong; Vishnu Monn Baskaran
	10.40-11.00		

Session			Chair
ThAM1-6 (SS19: Towards real-world human-centric acoustic signal processing)			Sernsack Uatrongjit
Date	Time	Title	Author
10 November 2022	9.00-9.20	A Fast Converge Spectral Modulation Sensitive Active Noise Control System	Kah-Meng Cheong; Yih Liang Shen; Tai-Shih Chi
	9.20-9.40	Multimodal Forgery Detection Using Ensemble Learning	Ammarah Hashmi; Sahibzada Adil Shahzad; Wasim Ahmad; Chia Wen Lin; Yu Tsao; Hsin-Min Wang
	9.40-10.00	Speech Enhancement-Assisted Voice Conversion in Noisy Environments	Yun-Ju Chan; Chiang-Jen Peng; Syu-Siang Wang; Hsin-Min Wang; Yu Tsao; Tai-Shih Chi

	10.00-10.20	Effect of Noise on the Perceptual Contribution of Cochlea-Scaled Entropy and Speech Level in Mandarin Sentence Understanding	Weikang Wu; Shangdi Liao; Fei Chen
	10.20-10.40	EEG-Based Auditory Attention Detection With Estimated Speech Sources Separated From an Ideal-Binary-Masking Process	Lei Wang; Fei Chen
	10.40-11.00	Automatic Step Detection of Tandem Gait Test in Patients With Vestibular Hypofunction Using Wearable Sensors	Yi-Ju Huang; Chien-Pin Liu; Kuan-Chung Ting; Chia-Yeh Hsieh; Kai-Chun Liu; Chia-Tai Chan

Session			Chair
ThAM1-7 (SS22: Recent Advances in Biometrics and Security)			Koichi Ito
Date	Time	Title	Author
10 November 2022	9.00-9.20	Continuous Authentication for Smartphones Using Face Images and Touch-Screen Operation	Shuto Kinoshita; Yuka Watanabe; Yasushi Yamazaki
	9.20-9.40	Spoofing Attack Detection in Face Recognition System Using Vision Transformer With Patch-Wise Data Augmentation	Kota Watanabe; Koichi Ito; Takafumi Aoki
	9.40-10.00	A Simple and Accurate CNN for Iris Recognition	Shokei Kawakami; Hiroya Kawai; Koichi Ito; Takafumi Aoki; Yoshiko Yasumura; Masakazu Fujio; Yosuke Kaga; Kenta Takahashi
	10.00-10.20	Eyeglass Frame Segmentation for Face Image Processing	Kanta Miura; Takamichi Miyamoto; Kazuyuki Sakurai; Koichi Ito; Takafumi Aoki
	10.20-10.40	A Fair Model is Not Fair in a Biased Environment	Yuya Sato; Soshi Maeda; Muku Akasaka; Masakatsu Nishigaki; Tetsushi Ohki
	10.40-11.00		

Session			Chair
ThAM1-8 (Other related speech processing)			Sansanee Auephanwiriyaikul
Date	Time	Title	Author
10 November 2022	9.00-9.20	Intelligibility Prediction of Enhanced Speech Using Recognition Accuracy of End-To-End ASR System	Kenichi Arai; Atsunori Ogawa; Shoko Araki; Keisuke Kinoshita; Tomohiro Nakatani; Naoyuki Kamo; Toshio Irino
	9.20-9.40	Hi, KIA: A Speech Emotion Recognition Dataset for Wake-Up Words	Taesu Kim; SeungHeon Doh; Gyunpyo Lee; Hyeongseok Jeon; Juhan Nam; Hyeon-Jeong Suk
	9.40-10.00	Improving Speech Emotion Recognition via Fine-Tuning ASR With Speaker Information	Bao Thang Ta, Tung Lam Nguyen, Dinh Son Dang, Nhat Minh Le, Van Hai Do
	10.00-10.20	3CMLF: Three-Stage Curriculum-Based Mutual Learning Framework for Audio-Text Retrieval	Yi-Wen Chao; Dongchao Yang; Rongzhi Gu; Yuexian Zou
	10.20-10.40		
	10.40-11.00		

Session			Chair
ThPM1-1 (Image Video Multimedia)			Masaki Kawamura
Date	Time	Title	Author
10 November 2022	12.30-12.50	Neural Network Based Watermarking Trained With Quantized Activation Function	Shingo Yamauchi; Masaki Kawamura
	12.50-13.10	A Multiframe Super-Resolution Pipeline for Sub-Image-Typed Light Field Data	Chien-Han Hsu; Yi-Hsien Lin; Yen-Po Lin; Yi-Chang Lu
	13.10-13.30	Restoring Edge and Color Using Weighted Near-Infrared Image and Color Transmission Maps for Robust Haze Removal	Onhi Kato; Akira Kubota
	13.30-13.50	Dense View Interpolation of 4D Light Fields for Real-Time Augmented Reality Applications	Hidemichi Yoshino; Kazuya Kodama; Takayuki Hamamoto

	13.50-14.10	Bolt Looseness Identification Using Faster R-CNN and Grid Mask Augmentation	Natchapon Panmatharit; Yuttapong Jiraksopakun; Anek Siripanichgorn; Punnarai Siricharoen
	14.10-14.30	Large-Scale Blind Face Super-Resolution via Edge Guided Frequency Aware Generative Facial Prior Networks	Xi Cheng; Wan-Chi Siu; Jian Yang

Session			Chair
ThPM1-2 (Speech, Language, and Audio 1)			Takanobu Nishiura
Date	Time	Title	Author
10 November 2022	12.30-12.50	Language-Based Audio Retrieval With Converging Tied Layers and Contrastive Loss	Andrew Koh; Chng Eng Siong
	12.50-13.10	D ² Net: A Denoising and Dereverberation Network Based on Two-Branch Encoder and Dual-Path Transformer	Liusong Wang; Wenbing Wei; Yadong Chen; Ying Hu
	13.10-13.30	Direct Speech-Reply Generation From Text-Dialogue Context	Kenichi Fujita; Yusuke Ijima; Hiroaki Sugiyama
	13.30-13.50	Sequence-Wise Optimization for Quasi-Harmonic Speech Waveform Modeling	Shaowen Chen; Tomoki Toda
	13.50-14.10	Lattice-Based Data Augmentation for Code-Switching Speech Recognition	Roland Hartanto; Kuniaki Uto; Koichi Shinoda
	14.10-14.30	Phase-Aware Audio Super-Resolution for Music Signals Using Wasserstein Generative Adversarial Network	Yanqiao Yan; Binh Thien Nguyen; Yuting Geng; Kenta Iwai; Takanobu Nishiura

Session			Chair
ThPM1-3 (Deep Learning: Algorithm, Implementations, and Applications)			Jen-Chun Lin
Date	Time	Title	Author
10 November 2022	12.30-12.50	Speech Emotion Recognition Based on the Reconstruction of Acoustic and Text Features in Latent Space	Jennifer Santoso; Rintaro Sekiguchi; Takeshi Yamada; Kenkichi Ishizuka; Taiichi Hashimoto; Shoji Makino

	12.50-13.10	A Light CNN With Split Batch Normalization for Spoofed Speech Detection Using Data Augmentation	Haojian Lin; Yang Ai; Zhenhua Ling
	13.10-13.30	On the Optimal Classifier for Affective Vocal Bursts and Stuttering Predictions Based on Pre-Trained Acoustic Embedding	Bagus Tris Atmaja; Zanjabila; Akira Sasou
	13.30-13.50	Nonlinear Residual Echo Suppression Based on Gated Dual Signal Transformation LSTM Network	Kai Xie; Ziye Yang; Jie Chen
	13.50-14.10	Adaptive End-To-End Text-To-Speech Synthesis Based on Error Correction Feedback From Humans	Kazuki Fujii; Yuki Saito; Hiroshi Saruwatari
	14.10-14.30	Adversarial Speaker-Consistency Learning Using Untranscribed Speech Data for Zero-Shot Multi-Speaker Text-To-Speech	Byoung Jin Choi; Myeonghun Jeong; Minchan Kim; Sung Hwan Mun; Nam Soo Kim

Session			Chair
ThPM1-4 (SS07: Latest Wireless Technologies for Sensing and Communications)			Osamu Takyu
Date	Time	Title	Author
10 November 2022	12.30-12.50	Performance Evaluation of FISTA With Constant Inertial Parameter	Kaito Kameda; Ryo Hayakawa; Kazunori Hayashi; Youji Iiguni
	12.50-13.10	An Approximated ADMM Based Algorithm for $\ell_1 - \ell_2$ Optimization Problem	Rui Lin; Kazunori Hayashi
	13.10-13.30	Antenna Beamforming Selection With Low Complexity and High Exploitation of White Space in Frequency Spectrum Sharing	Kizuku Kawamura; Kohei Akimoto; Osamu Takyu
	13.30-13.50	Individual Memory Driven Transformer Deep Learning Model for Multi-Cell Massive MIMO Beam Prediction	Taisei Urakami; Haohui Jia; Na Chen; Minoru Okada
	13.50-14.10	Deep Unfolding-Aided Sum-Product Algorithm for Error Correction of CRC Coded Short Message	Qilin Zhang; Shinsuke Ibi; Takumi Takahashi; Hisato Iwai
	14.10-14.30	Successive Interference Cancellation for Signal Demodulation of Multiple LPWA Systems	Shinichiro Kakuda; Takeo Fujii; Shusuke Narieda

Session			Chair
ThPM1-5 (SS08: Digital Convergence of 5G/B5G, AIoT and Security)			Kampol Woradit
Date	Time	Title	Author
10 November 2022	12.30-12.50	Evaluation of Voice Service in LEO Communication With 3GPP PUSCH Repetition Enhancement	Shou-Hong Liu; Chun-Tai Liu; Wei-Hung Chou; JenYi Pan
	12.50-13.10	Modeling of Malware Diffusion With Mobile Devices in Intermittently Connected Networks	Hideyoshi Miura; Shoya Abukawa; Tomotaka Kimura; Kouji Hirata
	13.10-13.30	Software Defined Radio Access Network Sharing by Multi-Operator Core Networks	Wen-Ping Lai; Wen-Ru Chen; Ming-Jay Lai; Hong-Lun Lai; Chia-Ying Lin; Po-Chen Tseng
	13.30-13.50	Machine Learning Based End-To-End Constellation Training for Communication Systems	Po-Chiang Lin
	13.50-14.10	Flow-Based DDoS Detection Using Deep Neural Network With Radial Basis Function Neural Network	Ting-Chung Leung; Lee Chung-Nan
	14.10-14.30	Implement a Continuous Learning Model to Detect Different Types of DDoS Attacks With Hierarchical Temporal Memory	Hung Manh Nguyen; Yu-Kuen Lai

Session			Chair
ThPM1-6 (SS23: Selected Papers from APSIPA Workshop in Hanoi, Vietnam)			Nguyen Linh Trung
Date	Time	Title	Author
10 November 2022	12.30-12.50	Dynamic Hand Gesture Recognition From Egocentric Videos Based on SlowFast Architecture	Ha-Dang Ho, Hong-Quan Nguyen, Thuy-Binh Nguyen, Sinh-Thuong Vu, Thi-Lan Le
	12.50-13.10	Deep Learning-Based Signal Detection for Dual-Mode Index Modulation 3D-OFDM	Dang-Y Hoang, Tien-Hoa Nguyen, Vu-Duc Ngo, Trung Tan Nguyen†, Nguyen Cong Luong, Thien Van Luong
	13.10-13.30	A Comparison of Feature Selection and Feature Extraction in Network Intrusion Detection Systems	Tuan-Cuong Vuong, Hung Tran, Mai Xuan Trang, Vu-Duc Ngo, Thien Van Luong

	13.30-13.50	Deep Neural Network-Based Detector for Single-Carrier Index Modulation NOMA	Toan Gian, Vu-Duc Ngo,Tien-Hoa Nguyen, Trung tan Nguyen, Thien Van Luong
	13.50-14.10	Vibration Measurement Using Spatial Shifting Coherent Digital Holography	Long Hai Ngo; Quang Duc Pham
	14.10-14.30	Robust Online Tucker Dictionary Learning From Multidimensional Data Streams	Le Trung Thanh; Tran Trong Duy; Karim Abed-Meraim; Nguyen Linh Trung; Adel Hafiane

Session			Chair
ThPM1-7 (SS06: Adversarial Attacks and Defense)			Minoru Kuribayashi
Date	Time	Title	Author
10 November 2022	12.30-12.50	StyleGAN Encoder-Based Attack for Block Scrambled Face Images	AprilPyone MaungMaung; Hitoshi Kiya
	12.50-13.10	On the Adversarial Transferability of ConvMixer Models	Ryota Iijima; Miki Tanaka; Isao Echizen; Hitoshi Kiya
	13.10-13.30	Detection and Correction of Adversarial Examples Based on JPEG-Compression-Derived Distortion	Kenta Tsunomori; Yuma Yamasaki; Minoru Kuribayashi; Nobuo Funabiki; Isao Echizen
	13.30-13.50	Survey on Vision Based Fake News Detection and Its Impact Analysis	Mehul S Raval; Mohendra Roy; Minoru Kuribayashi
	13.50-14.10	Defense Against Adversarial Examples Using Beneficial Noise	Param Raval; Harin Khakhi; Minoru Kuribayashi; Mehul S. Raval
	14.10-14.30	Privacy Protection Against Automated Tracking System Using Adversarial Patch	Hiroto Takiwaki; Minoru Kuribayashi; Nobuo Funabiki; Mehul Shirishchandra Raval

Session			Chair
ThPM1-8 (Industrial Forum "New era opened by AI-based image processing")			Jangwoo Kwon
Date	Time	Title	Author
10 November 2022	12.30-14.30	Towards Best Possible Deep Learning Acceleration on the Edge – A Compression-Compilation Co-Design Framework	Yanzhi Wang, Northeastern University, Chairman and former CEO of CoCoPIE Inc., USA
	12.30-14.30	Empowering Future Pathology with Artificial Intelligence	Shuhao Wang, Co-founder and CTO of Thorough Future, China

Session			Chair
ThPM2-1 (Image Video Multimedia)			Nam Ik Cho
Date	Time	Title	Author
10 November 2022	15.00-15.20	Syllable Analysis Data Augmentation for Khmer Ancient Palm Leaf Recognition	Nimol Thuon; Jun Du; Jianshu Zhang
	15.20-15.40	Multi-Class Vehicle Counting System for Multi-View Traffic Videos	Wichukorn Kuntintara; Kanokphan Lertniphonphan; Punnarai Siricharoen
	15.40-16.00	Table Structure Recognition Based on Grid Shape Graph	Eunji Lee; Junhyeong Kwon; Haeyoon Yang; Jaewoo Park; Soonyoung Lee; Hyung Il Koo; Nam Ik Cho
	16.00-16.20	Feature Distillation Network for Multi-Band NIR Colorization	Tae-Sung Park; Tae-Hyeon Kim; Jong-Ok Kim
	16.20-16.40	Blur Detection for Surveillance Camera System	Yikun Pan, Sik-Ho Tsang, Yui-Lam Chan, Daniel P.K. Lun
	16.40-17.00	Lip Sync Matters: A Novel Multimodal Forgery Detector	Sahibzada Adil Shahzad; Ammarah Hashmi; Sarwar Khan; Yan-Tsung Peng; Yu Tsao; Hsin-Min Wang

Session			Chair
ThPM2-2 (Speech, Language, and Audio 1)			Kittichai Wantanajittikul
Date	Time	Title	Author
10 November 2022	15.00-15.20	Frame-Level Matching Scheme Using Posteriorgram Probability Distance of Spoken Data to Improve Search Accuracy of Spoken Term Detection	Reo Minakawa; Kazunori Kojima; Shi-wook Lee; Yoshiaki Itoh
	15.20-15.40	Empirical Study Incorporating Linguistic Knowledge on Filled Pauses for Personalized Spontaneous Speech Synthesis	Yuta Matsunaga; Takaaki Saeki; Shinnosuke Takamichi; Hiroshi Saruwatari
	15.40-16.00	Using Perceptual Quality Features in the Design of the Loss Function for Speech Enhancement	Nicholas Eng; Yusuke Hioka; Catherine I Watson
	16.00-16.20	Correlation Loss for MOS Prediction of Synthetic Speech	Beibei Hu; Qiang Li
	16.20-16.40	Back-Translation-Style Data Augmentation for Mandarin Chinese Polyphone Disambiguation	Chunyu Qiang; Peng Yang; Hao Che; Jinba Xiao; Xiaorui Wang; Zhongyuan Wang
	16.40-17.00	Classification of Short Audio Acoustic Scenes Based on Data Augmentation Methods	Xuan Zhang; Yunfei Shao; Junjie Xu; Yong Ma; Wei-Qiang Zhang

Session			Chair
ThPM2-3 (Deep Learning: Algorithm, Implementations, and Applications)			Kasemsit Teeyapan
Date	Time	Title	Author
10 November 2022	15.00-15.20	Improving Unsupervised Anomalous Sound Detection Performance of Autoencoder and Its Variant With Pretrained Deep Belief Network	Yufeng Deng; Jia Liu; Wei-Qiang Zhang
	15.20-15.40	ASGAN-VC: One-Shot Voice Conversion With Additional Style Embedding and Generative Adversarial Networks	Wei-Cheng Li; Tzer-Jen Wei
	15.40-16.00	Fusing Multiple Bandwidth Spectrograms for Improving Speech Enhancement	Hao Shi; Yuchun Shu; Longbiao Wang; Jianwu Dang; Tatsuya Kawahara
	16.00-16.20	End-To-End Two-Dimensional Sound Source Localization With Ad-Hoc Microphone Arrays	Yijun Gong; Shupeil Liu; Xiao-Lei Zhang

	16.20-16.40	Exploring Speaker Age Estimation on Different Self-Supervised Learning Models	Tuan Duc Truong; Tran The Anh; Eng-Siong Chng
	16.40-17.00	Mandarin Singing Voice Synthesis With Denoising Diffusion Probabilistic Wasserstein GAN	Yin-Ping Cho; Yu Tsao; Hsin-Min Wang; Yi-Wen Liu

Session			Chair
ThPM2-4 (SS18: Metaverse: Future of Internet)			Navadon Khunlertgit
Date	Time	Title	Author
10 November 2022	15.00-15.20	Physiological Study on the Effect of Game Events in Response to Player's Laughter	Mikito Fukuda; Yoshiko Arimoto
	15.20-15.40	Development of a Virtual Telecommunication System Research Laboratory	Siwanart Jearavongtakul; Imran Saeed Mirza; Lunchakorn Wuttisittikulkij; Pruk Sasithong; Suebphong Noisri; Pisit Vanichchanunt
	15.40-16.00	Camera-Based Log System for Human Physical Distance Tracking in Classroom	Somrudee Deepaisarn; Angkoon Angkoonsawaengsuk; Charn Arunkit; Chayud Srisumarnk; Krongkan Nimmanwatthana; Nanmanas Linphrachaya; Nattapol Chiewnawintawat; Rinrada Tanthanathewin; Sivakorn Seinglek; Suphachok Buaruk; Virach Sornlertlamvanich
	16.00-16.20	Detecting Replay Attacks Using Single-Channel Audio: The Temporal Autocorrelation of Speech	Shih-Kuang Lee; Yu Tsao; Hsin-Min Wang
	16.20-16.40		
	16.40-17.00		

Session			Chair
ThPM2-5 (Wireless Communication and networking)			Poompat Saengudomlert
Date	Time	Title	Author
10 November 2022	15.00-15.20	Automatic Detection of Dimmable Pulse Position Modulation for Visible Light Communication	Poompat Saengudomlert; Karel Sterckx
	15.20-15.40	Estimation of Angular Power Spectrum Using Multikernel Adaptive Filtering	Eiji Ninomiya; Masahiro Yukawa; Renato L. G. Cavalcante; Lorenzo Miretti
	15.40-16.00	Novel Smart Sectoring and Beam Designs in mmWave Broadcast Channels	Yan-Yin He; Shang-Ho (Lawrence) Tsai; Jen-Ming Wu
	16.00-16.20	New Methods for Fast Detection for Embedded Cognitive Radio	Grégoire de Broglie; Louis Morge-Rollet; Denis Le Jeune; Frédéric Le Roy; Christian Roland; Charles Canaff; Jean-Philippe Diguët
	16.20-16.40		
	16.40-17.00		

Session			Chair
ThPM2-6 (SS23: Selected Papers from APSIPA Workshop in Hanoi, Vietnam)			Nguyen Linh Trung
Date	Time	Title	Author
10 November 2022	15.00-15.20	Needle Localization and Segmentation for Radiofrequency Ablation of Liver Tumors Under CT Image Guidance	Le Quoc Anh; Luu Manh Ha; Theo van Walsum; Adriaan Moelker; Dao Viet Hang; Pham Cam Phuong; Vu Duy Thanh
	15.20-15.40	End-To-End Visual-Guided Audio Source Separation With Enhanced Losses	Duc-Huy Pham; Quang-Anh Do; Thanh Thi-Hien Duong; Thi-Lan Le; Phi Le Nguyen
	15.40-16.00	Automated Classification of Lung Injury From X-Ray Images Using Deep Learning Network	Huy Le; Thanh-Ha Do
	16.00-16.20	AI-Based Video Analysis for Traffic Monitoring	Bui Son Tung; Phung The Ngoc; Do Duy Thanh; Nguyen Hong Thinh

	16.20-16.40	Adaptive Filtering-Based Heavy-Noise Removal in Born Iterative Method	Tran Quang-Huy; Luong Thi Theu; Nguyen Canh Minh; Duc-Nghia Tran; Duc-Tan Tran
	16.40-17.00	A Novel Deep Learning-Based Approach for Sleep Apnea Detection Using Single-Lead ECG Signals	Anh-Tu Nguyen; Thao Nguyen; Huy-Khiem Le; Huy-Hieu Pham; and Cuong Do

Session			Chair
ThPM2-7 (SS15: Advanced Sensing Technologies using Wireless Signal)			Kampol Woradit
Date	Time	Title	Author
10 November 2022	15.00-15.20	Multi-Resolution GPR Clutter Suppression Method Based on Low-Rank and Sparse Decomposition	Yanjie Cao; Xiaopeng Yang; Tian Lan
	15.20-15.40	Indoor Human Motion Recognition Method Based on Kernel-Distance Doppler Velocity Estimation and Lightweight Network	Weicheng Gao; Xiaopeng Yang; Xiaodong Qu; Jiancheng Liao; Zixiang Yin; Ding Zhang
	15.40-16.00	Mainlobe Interference Suppression Method Based on Blocking Matrix Preprocessing With Low Sidelobe Constraint	Meng Haoyu; Qu Xiaodong; Zhang Xingyu; Li Wolin; Zhang Zhengyan; Yang Xiaopeng
	16.00-16.20	Continuous Tracking of Indoor Human Targets Based on Millimeter Wave Radar	Meiqiu Jiang; Shisheng Guo; Haolan Luo; Guolong Cui
	16.20-16.40	Reconfigurable Intelligent Surfaces Aided WiFi Imaging	Ying He; Dongheng Zhang; Yan Chen
	16.40-17.00	Continuous User Authentication Using WiFi	Pengcheng Huang; Dongheng Zhang; Ruixu Geng; Yan Chen