

IEEE CyberSciTech/DASC/PICom/CBDCom 2024

Advanced Program

Day 1 (Fri)	09:30 – 17:00	Registration			
	10:00 – 11:30	Birds-of-a-Feather (BoF)			
	13:00 – 14:30	Tutorial (Golden Pavilion Room)			
	14:30 – 15:00	Coffee Break			
	15:00 – 17:00	Panel Discussion (Golden Pavilion Room)			
	18:30 – 21:00	Welcome Reception			
Day 2 (Sat)	08:00 – 17:00	Registration			
	08:30 – 09:00	Welcome Ceremony (Golden Pavilion Room)			
	09:00 – 10:20	Keynote Talks (Golden Pavilion Room)			
	10:20 – 10:40	Coffee Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech A	CyberSciTech B	CyberSciTech C	CyberSciTech D
	10:40 – 11:00	Leveraging EEG Signal for People Identification under Different Emotion States - Zhiyong Huang, Yang Meng, An Guo, Waleed Ibrahim, Jonathan Ma	Architecting a Privacy-Aware IoT-Enabled Platform for Bathing Monitoring in Beach Resort: A Case Study - Giovanni Campari, Davide Caroncello, Maria Di Ramondo, Corrado Santoro, Federico Fausto Santoro	Wii-IoT: Registering and Evaluating the Security and Resilience of Internet of Things and Connected Devices Using a Collaborative Platform - Jean Decian, Fahmi Jaafar	(Online) Representation Learning for Complex Networks - Shiyu Chen, Jun Huo
	11:00 – 11:20	Paralleling 3D/18 in Perspective Language Teaching Practices in the Age of AI: Case Studies of Chinese and Japanese Learners - Xiaolin Wu, Shuang Zhu, Jiaqi Zhou, Raymond Yao	A Comprehensive System for Indoor Assistance and User Interaction - Francesco Cavanotto, Milana Russo, Corrado Santoro, Federico Fausto Santoro, Alessio Tufano	Cybersecurity Domains: A Design Pattern for Creating Zero Trust Architectures Through Misrepresentation - Claudio Zanali, Marco Marchetti, Michele Calcegi	(Online) Intelligent Task Offloading in IoT-Driven Digital Twin Systems via Hybrid Federated and Reinforcement Learning - Shivam Goyal, Sudhakar Kumar, Sunil K. Singh, Brij B. Gupta, Varsha Arora, Kaeck Ta Chai
	11:20 – 11:40	(Online) Sequence-Integrated Radiology Report Generation Leveraging Positional Encoding for Text and Images - Yotth Pan, Kai Li, Han Zhu, Jinghui Wu, Fofie Shao, Jimmy Xie, Guanghui Sun	Estimating Performance of Application Deployment on Distributed IoT-Edge Cloud Infrastructures - Fabrizio Manzoni, Alessandro Prada, Rosa Vercellotti, Andrea Vio	Dynamic Allocation of Data Security in Wireless Sensor Networks Mohammed Zameed Ali	(Online) Advanced Evaluation of Propagation Models and Routing Protocols in Vehicular Ad-Hoc Networks - Ahmad Jassal, Samir K. Singh, Sudhakar Kumar, Kaeck Ta Chai, Brij B. Gupta
	11:40 – 12:00	(Online) A PISO-CNN-BLSTM model for predicting Leaf Area Index - Wang Dong, Zhou Guoyuan, Jinghui Xu, Jiao Eduardo Batista, Qiao Jie, Heshu He	Graph Attention Networks with LSTM for Smart Contract Vulnerability Detection - Kyungho Jang, Hyunah Ra, Hoon Jung	Benchmarking Deep Learning Algorithms for Intrusion Detection IoT Networks - Enzo Houmady, Fahmi Jaafar	(Online) SA-PISO Approach for Optimizing QoS Management in SDN Service Chains - Wen Ji, Chenhan Lin, Jiang Liu, Honggang Xu, Liangxiu Xu, Jun Hu
	12:00 – 12:30	Lunch Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech B	PICom A	EDCSIA	CyberSciTech C
	13:30 – 13:50	A Study on Adaptive Gradient Clipping Algorithms for Differential Privacy: Enhancing Cyber Security and Trust - Siman Chen, Wei Wang	A Study on Consumer Grade EEG Headsets in BCI Applications - Luigi Ricci, Paolo Zucchi, Franco Corbelli, Antonio Guarneri, Massimo Mosci, Andrea Vio	Crew Management Support Application for Operation Managers and Routing Systems Security - Yoshihiro Uchiyama, Chisato Sudo, Yoshitomo Yasutake, Hiroyuki Satomura, Kentaro Inagawa	(Online) Attack Path Extraction Based on VGAE and DBSCAN - Zi Ang Lu, Lu Chen, Yong Li, Guang Xin Guo, Teng Yan Wang
	13:50 – 14:10	Adversarial Evaluation of AI-Based Security Alert Screening Systems - Samer Melchi, Tao Bao, Takanori Takahashi, Akira Tanaka, Seiji Oishi, Cecile Cloude, Hiroshi Imai	Comprehensive Analysis of QoS Emotions Using Statistical and Visual Features - Chuan-Yi Chang, Ai-Yue Chia, Hui-Huang Chen	Hybrid IoT Programming with Data Flow Diagrams and Mruby - Kazuki Tanaka, Soda Ogura, Krishnamoorthy R	(Online) Review of Collaborative Inference in Edge Intelligence: Emphasis on DNN Partition - Ning Liu, Fei Dai, Xintao Chai, Zhen Li, Xiaodong Wu, Bi Huang
	14:10 – 14:30	Privacy-Preserving Parameter Aggregation Scheme Based on Two Layers for Federated Learning - Weiye Wang, Zhuotao Luo, Tianhui Li, Kouichi Sakurai, Chuanhui Su	Securing Cardiacography Inspired Heart Activity Monitoring Using FMCIW Radar - Waleed Ibrahim, Jonathan Ma, Mounir Ma, Yuhang Luo, Alex Ou, Yitong Qi	VR-ME: A Virtual Reality Trainer for Industrial Floor Mill - Lawrence Est Romagosa, Ethen Tabuadas, Stephanie Vallatou, Earl Ryan Alvarez, Stephen Hain, Francis Jam Alagon, Steve Clap, Annel Zerny, Cheryl Mae O Villara	(Online) Lightweight Scalable Tree Communication Pattern BFT Protocol - Jianjun Yang, Xiaodong Wang, Hui Lin
	14:30 – 14:50	Internet Security and Privacy Awareness Among College Students in the Philippines - Jim Almes-Fox, Baby Grace Liago	Subject General and Subject-Specific Emotion Recognition Across Video Stimuli Using EEG Signals - Zhiyong Huang, An Guo, Jonathan Ma	(Online) Congestion Prediction by Multitask Learning of Audiovisual Data - Iori Ide, Yuki Toyosaki, Kai Cheng, Katsuki Abe	(Online) Lightweight IoT-Oriented Verifiable Computing Scheme in Cloud Computing Circumstance - Xinlin Pei, Yuling Chen, Yun Luo, Ziding Li, Jiansi Wei
	14:50 – 15:10	Fuzzy Logic-Based Deep Reinforcement Learning Pre-Training: A Case Study in MEC Task Offloading - Jialu Zhang, Yanglin Liu, Zhenyang Du, Wuguo Dai Bao	Multitask Sequential Deep Learning for Affective Detection in People Living with Dementia - Shehroz S. Khan, Gauri Liu, Bing Yu, Kristine Newman, Alex Malladi, Andrea Ianni	(Online) Investigating the Impact of COVID-19 Pandemic on Education by Learning Analytics - Katsuki Abe, Kai Cheng	(Online) Optimized Block-CL Clustering IoT Clustering and Blockchain Sharing Strategy Using Deep Reinforcement Learning - Yanzhi Chen, Lin Hui, Lihua Wu, Xiaodong Wang
	15:10 – 15:30	Coffee Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech D	PICom B	EDCSIA/ADSN	CyberSciTech E
	15:30 – 15:50	Detecting Characteristic Points in Breathing Cycles using FMCIW Radar with Spirometer as Reference - Haotian Wang, Waleed Ibrahim, Jonathan Ma, Mounir Ma, Alex Ou	Migrating WSN Applications from Monoliths to a Modular Approach Based on the tinyDM Middleware: Scenarios and Analysis - Jakob Mik, Krzysztof Potkowiak, Przemyslaw Zelazny	Smart Parking: Detecting Vacant Spots from an Angled Viewpoint - Jan Leven Sayson, Alfa Valdehustiza, Mac Jam Maghinay, Patsy Rios Ponce, Stephanie Hain, Francis Jam Alagon, Stephanie Vallatou, Cheryl Mae Villara, Steve Clap, Annel Zerny, Earl Ryan Alvarez	(Online) Network Intrusion Detection Algorithm Based on LightGBM Model and Improved Particle Swarm Optimization - Yiran Song, Haoyang He, Zhenhua Ge, Zhenhua Lan
	15:50 – 16:10	Automotive Decision-Making in Roundabouts Using Deep Reinforcement Learning and Heuristics Rules - Hailuo Zhang, Weichen Hei, Yangyang Shi, Haoyang Feng, Jin Hu	A Computer Vision Approach for Path Planning in Mobile Robots - Federico Fausto Santoro, Corrado Santoro, Milana Russo, Claudio Ruggeri	Message Routing Protocol for DTN based on Road Network Density - Kazuma Matsubara, Naohiro Hayashibara	(Online) Improving Example Quality in Black Box Hard Label Text Adversarial Attacks - Chengyu Xu, Pengcheng Wang, Guannu Li
	16:10 – 16:30	Fake News Detection Based on Contrast Learning and Cascading Attention - Fu Li, Hui Zhang, Zhihao Liang, Shijuan Wang	Capturing Spatial Information for EEG-Based Gesture Recognition Using Graph Attention Networks - Tong Xie, Feng Wang, Jiechen Kwak, Jian Zhao, Jinhua He, Deluise Chong	Early Detection of User Domains Overlapping Through Frequency Analysis of Time-Series Data - Masaki Aida, Kazuki Nakajima, Chika Tanaka	(Online) Model Uncertainty Based Unsupervised Real-Time Drift Detection in Network Traffic Classification - Mengyu Liu, Pan Jiang, Yongchun Ye, Xianlin Chen
	16:30 – 16:50	Reducing the Influence of Individual Variability in EEG-Based Fall Detection Using Transfer Learning - Huiwen Liu, Feng Wang, Jiechen Kwak, Jian Zhao, Jinhua He, Deluise Chong	Inferring the Influence of Individual Variability in EEG-Based Fall Detection Using Transfer Learning - Huiwen Liu, Feng Wang, Jiechen Kwak, Jian Zhao, Jinhua He, Deluise Chong	Inferring Time-Driven Requesting Sequences in Segmented File Download Methods Using Parallel TCP/TCP-PT Connections for Multiple Paths - Junchi Furutani, Naoki Hiroaki	(Online) Privacy Comparison Based on Digital Decomposition for IoT Cloud Environments - Ziding Li, Yuling Chen, Yun Luo, Xintao Chai, Pei Yi, Yong Qi
	16:50 – 17:10	(Online) Multimodal-Wave Human Image Dangerous Object Detection Based on Faster R-CNN - Bi He, Yang Gao, Jing Cao, Wenping Cai, Xin Ma, Xueqin Xiao, Zhihao Lan	Enhancing Robotic Systems Through a Distributed Multi-Agent Digital Twin Environment - Federico Fausto Santoro, Corrado Santoro, Milana Russo, Giovanni Campari	Bertrand's Paradox in Virtual Hardware - A Probabilistic Analysis - Kenta Fukutami, Tsumiko Miyata, Masaki Aida, Ziding Li	(Online) Range Proof-Based Noise Filtering Mechanism for IoT Differential Privacy - Jiang Wei, Yuling Chen, Yun Luo, Ziding Li
Day 3 (Sunday, 11/7)	08:00 – 17:00	Registration			
	08:30 – 09:00	Keynote Talks (Golden Pavilion Room)			
	09:50 – 10:20	Coffee Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech F	CyberSciTech G	CyberSciTech H	CyberSciTech I
	10:20 – 10:40	Leveraging Digital Twins and Generative AI for Effective Urban Mobility Management - Marzia Carzanelli, Sara Ambrosio, Francesco De Santis, Paolo Caracciolo, Salvatore Cuomo, Francesco Petrali	CDPP: A Crowdsourcing Task Allocation Method for On-Diverse Participant Preferences - Jiarun Xu, Zhiwen Yu, Zhenyong Huang, Liao Zhi, Zhenyong Huang	(Online) Research on Virtual Resource Scheduling Algorithm Based on Multi-Objective Optimization - Cheng Zhou, Xiaojian Sun, Chen Wang, Wei Ji, Chenhan Lin	(Online) Short-term Solar Irradiance Forecasting Based on CNN-Transformer Model - Chuan Wang, Hua Wang, Jian Bi, Ke Dai
	10:40 – 11:00	Evolutionary Guidance System Using UAVs of Multiple Types of Disaster - Kazuhito Imai, Noriaki Kaniyama	Money Allocation Among ISPs Based on Cooperative Games for CDN Promotion - Masaki Ito, Noriaki Kaniyama	(Online) Model Extraction Attacks on Text-to-Image Generative Adversarial Networks - Ying Chen, Weihao Guo, Pengqian Ge, Kaiyi Ma, Zhang Yu, Qing	(Online) Address Selection for Multi-Party Conversations in Cyber-Physical-Social Systems - Xiaomeng He, Yuntong Jiang, Huijun Cai, Yinyu Liu
	11:00 – 11:20	Energy-Efficient Reliable Data Storage Service in Heterogeneous Clouds - Zhenyong Huang, Zhiwen Yu, Zhiye Huang, Erhe Yang, Jiarun Xu, Bin Guo	Assessing ChatGPT-generated Comments for Video Content Viewing in Online Learning - Jiaqi Wang, Jian Chen, Qian Ai	(Online) Unsupervised Anomaly Behavior Detection in Power Information Networks Based on Discriminative Semantic Transformation Sequences - Hui Yu, Wei Sun, Jian Liu, Peng Gao	(Online) Privacy-Preserving Anomaly Detection in Power Information Networks Based on Discriminative Semantic Transformation Sequences - Hui Yu, Wei Sun, Jian Liu, Peng Gao
	11:20 – 11:40	Automated Monitoring by Fusing Multi-Stage Image Features - Lihua Zhang, Fan He, Xun Shao	Randomly-Adaptive Semantic Communication System with Non-IRI Image Compression - Chao Wu, Cefeng Wu, Jiale Wu, Yanyan Liu, Zhenyong Du, He Si, Wuguo Dai Bao	(Online) Improving the Visual Quality of Adversarial Examples for Face Recognition Models - Yunhao Zhang, Qiannu Li, Fan Liu	(Online) IoT Intrusion Detection Using SDN Cloud-edge Collaboration and Ensemble Deep Learning - Yu Li, Sun Zhen
	11:40 – 12:00	An Automated Memory Image Forensic Scheme for Linux Systems Based on Computational Technology - Ruihan Chen, He Li, Cefeng Wu, He Si, Bin Guo	Traffic Prediction by Integrating Multi-Cycle Features and Spatio-Temporal Correlations - Luyang Nie, Benrong Huang, Lai Tu	(Online) Stealthy Adversarial Patch for Evading Object Detectors Based on Sensitivity Maps - Co Wang, Qiannu Li	(Online) PowerNet Crack Detection Based on Channel Attention Mechanism - Guo Liu, Bi Huang, Ning Liu, Xiaodong Wu, Li Tang, Fei Dai
	12:00 – 12:30	Lunch Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech J	PICom C	DASC B	CyberSciTech K
	13:30 – 13:50	Integrated Evaluation System for Intelligent Models - Xinyi Yang, Zhihao Lan	Traffic Classification for Network Slicing Using Machine Learning Techniques - Giselle Gao, Claudio Mosti de Farias, Fabiana Coimbra Delalio	Maximum Likelihood Prediction in Software Reliability Assessment - Tetsuki Dohi	(Online) A Graph Neural Network with Imbalance Aware Mechanism for Enhanced Fraud Detection - Yuhao Chen, Binbin Zhou, Zhenzhen Zhang, Jiahua Ma
	13:50 – 14:10	Deep Knowledge Tracing Model Integrating Multiple Feature Personalization Factors - Yufan Wang, Xinghui Xu, Fanfan Meng, Xin Tong	DICE: Distributed Code Generation and Execution - Kunal Ravi, Giuseppe Convello, Simrat Chakrabarti	A Novel Framework of Constructing on Water Pipeline Networks by Multi-Embedding Approach - Alvinde Muthia Rukmi, Ayi Mutharasan Shridhi, Ahmad Saikhu, and Muhammad Jafri Fransiska	(Online) Chinese Hamlet Entity Recognition in Industry Domain Based on Lexical Enhancement - Jinghui Zhao, Cuihan Li, Caiyun Liu, Zhenyong Ni, Jiaolong Ren, Zhang Yu, Qing
	14:10 – 14:30	Analysis of Business Model of Co-Creation Digital-Twin City Using Evolutionary Game - Kaito Kobori, Noriaki Kaniyama	Projected Quantum Kernel for IoT Data Analysis - Francesco D'Amico, Luca Mariani, Carlo Mastromeo, Jacopo Settimo, Andrea Vio	A Persuasive, Efficient and Private Future: Realizing Privacy-Preserving Machine Learning Through Hybrid Homomorphic Encryption - Huiya Nguyen, Minhquang Bui, Eugene Frenking, Tamasas Khan and Arindam Chakrabarti	(Online) (T)Former: Spatio-Temporal Transformer Network for Traffic Flow Prediction - Lecheng Li, Xintao Chai, Fei Dai, Shuai Wang, Yuting Zhang, Bi Huang
	14:30 – 14:50	FastGuard: Enhancing Data Privacy Integrity: Effective Facial Anonymization in Public Events - Chaitan Varshney, Ajay Chaitan, Subhrajit Bhattacharya, Subhrajit Bhattacharya, Chaitan Varshney, Ajay Chaitan, Subhrajit Bhattacharya	(Online) Prediction of Personal Exposure to PM2.5 Using a Network of Stationary and Wearable Air Quality Monitors - DK Aker	Leveraging Generative AI to Enhance Automotive Vulnerability Scoring - Seyoum Leil Mihrehan and Andrea Padighe	(Online) Dissection Analysis of Microservice Systems with Bounded Buffers - Li Yang, Bi Huang, Xintao Chai, Guo Liu, Liangxiu Xu, Fei Dai
	14:50 – 15:10	Efficient Feature Extraction Model for Surveillance Systems Using Drone Imagery - Jiahua Chen, Yuyangyue Lee, Kang-Hyun Jo	(Online) Human-Centric Based Energy and Comfort Optimization in Cognitive Buildings: A Review - Hanfahua Khan, Antonio Guarneri, Franco Corbelli, A. Stephen McLaughlin, Gianmario Spazzano	Towards cryptographic agility manifests in end-to-end encryption systems: a position paper from the perspective of crypto-consumers - Alexander Stinson and Lawrence Herwey	(Online) A Privacy-Preserving Access-Insulation Archives Utilization Framework and Implementation - Weiwei Chen, Jiarun Xu, Shuai Su, Chi Chen
	15:10 – 15:30	Coffee Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		IoT-Life	PICom D	CyberSciTech L	CyberSciTech M
	15:30 – 15:50	Analyzing the Impact of Effect Sounds on Real-World Human Emotions and Behaviors by Adding Effect Sounds to Human Actions - Xin Tong	(Online) Network-Based Analysis of Alzheimer's Disease Using ADNI-Derived Synthetic Connectomes - Camelia Comiti, Anabela Sotoca	Delay-Tolerant Computation Offloading in Vehicular Networks Based on Local Blockchain - Xin Liu, Rui Wang, Rui Xing, Dongxin Liu, Fangzhou Zhang, Lai Sun	(Online) Noise Betweenness Centrality Based Defense Strategy Against Topology Inference Threat: A Static Game Theoretical Perspective - Wenke Zhong, Yu Jiang, Qingli Yang, Chen, Zhuanran Yan, Shen Su, Zhong Tian, Tian Li
	15:50 – 16:10	Impacts of Internet of Things (IoT) Leveraging Radio Frequency Identification (RFID) and Internet Protocol (IP) on Business Continuity (BC) and Disaster Recovery (DR) - Nani Kumar Agarwal, Gurkan Singh Bhat, Chirukula Maheshwari Patel, Esai S. Rajakrishna	(Online) Design and Implementation of a Flexible Mobile Edge Middleware for Multi-Protocol Wireless Connectivity - Tatiana Reimer, Luis Eduardo Talavera Rios, Milena Cavallanti, Leonardo Luchessa, Markus Endler	(Online) Integrated Sensing and Communication for UAV Detection: A Reinforcement Learning-Based - Yu Si	(Online) An Approach to Detecting Reentrancy Vulnerabilities in Interacting Smart Contracts Using Model Checking - Xintao Chai, Bi Huang, Ning Liu, Guo Liu, Xiaodong Wu, Fei Dai
	16:10 – 16:30	A New Smart Classroom-Based User Authentication System via Signature Image Recognition Handwriting Behavior Identification - Zhenyong Du, Siyu Xiong, Bo Wu	(Online) A Deep Learning Based Digital Twin for Indoor Temperature Prediction in Smart Buildings - M. Babul Arif, M. Babul Arif, Yashraj Yu, Xueqian He, Zhou Si, Yutao Wang	(Online) A Trust Evaluation and Concept-Of-Base Approach for Dynamic API Evasion Detection - Han Liu, Baiyu Ai, Yashraj Yu, Xueqian He, Zhou Si, Yutao Wang	(Online) Enhancing Advanced Patch Effectiveness for Face Recognition Systems Using Sharpness-Aware Minimization - Wu Chengyu, Zhang Ting, Zhenhua Li, Zhenhua Lan
	16:30 – 16:50	Investigating Dependability Management of Wearable Device Data for Health and Fitness - Tao Zhou, Tianhe Hu, Hong Chen	(Online) Anomaly Identification and Classification of Network Traffic Using Optimized Machine Learning Approach - Yuhao Chen, Binbin Zhou, Zhenzhen Zhang, Jiahua Ma	Age of Information Dependent Grant-Free Communication - Yuanzhou Wang, Kai Zhang, Yitang Liu, Weilin Song, Jian Tang	(Online) Improved Multi-Objective Simulated Annealing Particle Swarm Algorithm for Sizing and Capacity Sizing of Distributed Power Supplies - Hao Bai Sun, Chuanwen Wen, Chuan Shi, Fei Lu, Qiangsheng Pei, Pengcheng Lv
	16:50 – 17:10	(Online) Analyzing Eye Movements of Drivers with Varying Levels of Experience During U-Turn Segment - Haojie Wang, Luyang Wang, Yuhua Zhu, Jian Wang, Bo Wu	(Online) Identifying Emerging Research Topics in Computer Science Using Overlapping Community Detection on Graph Neural Networks Predicted Graphs - Chaochao Zhang, Chaochao Zhang, Chaochao Zhang, Chaochao Zhang, Chaochao Zhang	Duplicate Data Elimination Optimization Strategy Based on Edge Service Management - yongjun pu, Xiaodong Xu, Liangxiu Xu	(Online) NCAA Bracket Prediction Using Machine Learning and Combinatorial Fusion Analysis - Yuanzhou Wang, Frank Heu, Jiahui Smith, Tushar Meher, Michael Schneider, Mohamed Rahouf
	17:10 – 17:30	(Online) Analyzing the Movement Behaviors of Golfers Chalk-Beating Based on Human Pose Estimation - Yu Qi, Bo Wu, Chongyuan Zhang, Siyu Xiong	(Online) A Domain Model for Urban Digital Twins - Stephan Heller	(Online) Fine-Grained Access Control for Lightweight Data Sharing of UAVs - Haojie Wang, Qichao Xu	
	19:00 – 22:00	Gala Dinner (Regency Ballroom)			
Day 4 (Friday, 11/8)	08:00 – 11:00	Registration			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech N	PICom E	CyberSciTech O	CyberSciTech P
	08:30 – 08:50	DMGDF: Enhancing Neural Network Design for Edge AI Implementation - Kuo-Yi Chang, Kun Lin Li, Ming-Hua Shou, Ezu-Hong Wang	Checking the Neural Network's Substituting Ability and Proposing Three Challenges for Human-like Substituting - Seongmin Kim, Kanghyun Jo	Improving the Adaptability of SEMD-Based Gesture Recognition Using Variational Mode Decomposition and Transfer Learning - Zhen Wu, Feng Wang, Jian Zhao, Seichi Kawata, Jinhua Shi	(Online) Deep Learning Method for Designing gEMD Segments - Jinghui Liu, Jinhua Shi, Jian Zhao, Feng Wang, Seichi Kawata
	08:50 – 09:10	DMGDF: Dynamic Objects Removal and Clustering for Object Detection - Kaitao Kim, Daeyoung Kim, Kanghyun Jo	A QoF Pose Estimation of Vehicles on the Road - Jaehyun Sung, Kanghyun Jo	Age of Information Dependent Grant-Free Communication - Yuanzhou Wang, Kai Zhang, Yitang Liu, Weilin Song, Jian Tang	(Online) Improved Multi-Objective Simulated Annealing Particle Swarm Algorithm for Sizing and Capacity Sizing of Distributed Power Supplies - Hao Bai Sun, Chuanwen Wen, Chuan Shi, Fei Lu, Qiangsheng Pei, Pengcheng Lv
	09:10 – 09:30	Low-Precision Inference for Performance Boosting of Image Classification - Minseung Kim, Jonghae Lee, Kang-Hyun Jo	Cross-Layer Performance Analysis of Delay-Doppler Domain Multi-Carrier Modulation for Vehicular Networks - Gangqiu Wang, Gailu Wang, Yanyan Liu, Zhenyong Du, Wuguo Dai Bao, He Si	Duplicate Data Elimination Optimization Strategy Based on Edge Service Management - yongjun pu, Xiaodong Xu, Liangxiu Xu	(Online) NCAA Bracket Prediction Using Machine Learning and Combinatorial Fusion Analysis - Yuanzhou Wang, Frank Heu, Jiahui Smith, Tushar Meher, Michael Schneider, Mohamed Rahouf
	09:30 – 09:50	Descriptor Feature Map for Classification - Jonghae Lee, Minseung Kim, Kanghyun Jo	Two-Stage Deep Learning for Energy-Saving Prediction in Streaming - Robert Seidler, Martin Laak, Gökdem Güllü, Stefan Arbanowski, Stephan Seidler		
	09:50 – 10:10	Coffee Break			
		Parallel Sessions (Golden Pavilion Room)	Parallel Sessions (Sapphire Room)	Parallel Sessions (Jade Room)	Parallel Sessions (Ruby Room)
		CyberSciTech O	PICom E	CyberSciTech P	CyberSciTech Q
	10:10 – 10:30	A Two-Stage Depression Recognition Model Based on Improved YOLOv5 and Spatial-Temporal CNN-Transformer Network - Jiarun Xu, Zhiwen Yu, Zhenyong Huang, Liao Zhi, Zhenyong Huang	Improving the Adaptability of SEMD-Based Gesture Recognition Using Variational Mode Decomposition and Transfer Learning - Zhen Wu, Feng Wang, Jian Zhao, Seichi Kawata, Jinhua Shi	Age of Information Dependent Grant-Free Communication - Yuanzhou Wang, Kai Zhang, Yitang Liu, Weilin Song, Jian Tang	(Online) Improved Multi-Objective Simulated Annealing Particle Swarm Algorithm for Sizing and Capacity Sizing of Distributed Power Supplies - Hao Bai Sun, Chuanwen Wen, Chuan Shi, Fei Lu, Qiangsheng Pei, Pengcheng Lv
	10:30 – 10:50	Detection of Smoking Behaviors Using Human Key Point and YOLOv5 - Wookil Zhang, Anton Louie P De Ocampo, Rowin M. Hernandez	PCO-VAD Method for Designing gEMD Segments - Jinghui Liu, Jinhua Shi, Jian Zhao, Feng Wang, Seichi Kawata	Duplicate Data Elimination Optimization Strategy Based on Edge Service Management - yongjun pu, Xiaodong Xu, Liangxiu Xu	(Online) NCAA Bracket Prediction Using Machine Learning and Combinatorial Fusion Analysis - Yuanzhou Wang, Frank Heu, Jiahui Smith, Tushar Meher, Michael Schneider, Mohamed Rahouf
	10:50 – 11:10	Transformer: A Lesion Segmentation Network for Primary Liver Cancer from 3D CECT Volume - Shih-Huang Jiaei, Liao, Xueqian He, Xian Ni	Enhanced Gesture Recognition via Interpolatable Temporal Convolutional Networks Utilizing Spatio-Temporal SEMD Features - Xintao Chai, Jinhua Shi, Feng Wang, Seichi Kawata, Eduardo Fumihiko Fukushima, Jiaqi Woo	ARFOSSE: Optimizing Federated Learning in Resource-Constrained Environments Through Data Sampling Techniques - Huiyu An, Chaochao Mosti de Farias, Fabiana Coimbra Delalio, Paulo Henrique Corbelli	
	11:10 – 11:30	Joint Filter: Tactile Sensor-Based Non-Invasive Approach to Sleep Apnea - Riya Mahajan, Yegor Du, Alexander Schmidt, Gokulakrishnan, Yashraj Tail, Shigeki Sugano	PCO-VAD Method for Designing gEMD Segments - Jinghui Liu, Jinhua Shi, Jian Zhao, Feng Wang, Seichi Kawata		
	11:30 – 11:50	Bi-SIS: Self-Sovereign Identity Bound to Biometrics - Yoshiko Yasunuma, Masakazu Fujio, Wataru Nakamura, Kenta Takahashi	Enhanced Gesture Recognition via Interpolatable Temporal Convolutional Networks Utilizing Spatio-Temporal SEMD Features - Xintao Chai, Jinhua Shi, Feng Wang, Seichi Kawata, Eduardo Fumihiko Fukushima, Jiaqi Woo		
	11:50 – 12:10	Closing Ceremony (Golden Pavilion Room)			
	14:30 – 16:00	Conference Organizational Meeting			