IEEE CyberSciTech/DASC/PICom/CBDCom 2024

Venue: Henann Regency Resort and Spa Advanced Program 09:30 - 17:00 Registration (near Golden Pavilion Room) 10:00 - 11:30 Birds-of-a-Feather (BoF) (Golden Pavilion Room) Tutorial (Golden Pavilion Room) Coffee Break (Golden Pavilion Room 13:00 - 14:30 14:30 - 15:00 15:00 - 17:00 Panel Discussion (Golden Pavilion Room 18:30 - 21:00 come Reception (*** Sunset Restaurant, Paradise Garden Resort Hotel and Convention Center) 08:00 - 17:00 Registration (near Golden Pavilion Room Welcome Ceremony (Golden Pavilion Room) 08:30 - 09:00 Keynote Talks (Golden Pavilion Room) Coffee Break (Golden Pavilion Room) 09:00 - 10:20 10:20 - 10:40 Session D2A-A (Golden Pavilion Room) Session D2A-B (Sapphire Room) Session D2A-C (Jade Room) Session D2A-D (Ruby Room) CyberSciTech A (Jiaqi Wang, Waseda University, Japan 10:40 - 11:00 11:00 - 11:20 11:20 - 11:40 hmarking Deep Learning Algorithms for Intrusion Detection IoT Networks - Enzo Hoummady: Fehmi Jaafar 11:40 - 12:00 12:00 - 13:30 Session D2P-A (Golden Pavilion Room) Session D2P-B (Sapphire Room) Session D2P-C (Jade Room) Session D2P-D (Ruby Room) CyberSciTech B (Session Chair: Lai Tu, Huazhong University of Science and Technology, China) EDCSTA (Session Chair: Bernady Apduhan, Kyushu Sangyo University, Japan) 13:30 - 13:50 13:50 - 14:10 rehensive Analysis of Dog Emotions Using Skeletal and Visual Features - Chuan-Yu Chang; Jia-Yee Chia; Hui-Huang Hsu orid IoT Programming with Data Flow Diagrams and Mruby - Kazuaki Tanaka; Sota Ogura; Krishnamoorthy R 14:10 - 14:30 Lightweight IoT-Oriented Verifiable Computing Scheme in Cloud Computing Circumstance - Xintao Pei; Yuling Chen; Yun Luc; Zaidong 14:30 - 14:50 net Security and Privary Awareness Among College Students in the Philippines . Jim Alves Foss: Rahy Grace Llegg thiert. General and Subject. Specific Emption Recognition Across Video Stimuli Liston EEG Sinnals . Thiving Hugger An Guy: Jambua Ma line) Connestion Prediction by Multimodal Learning of Audiovisual Data , Ind Ide: Yolk Toyosaka: Kai Chenn Keisuke Abe ial Sequential Deep Learning for Agitation Detection in People Living with Dementia - Shehroz S. Khan; Grant Lau; Bing Ye; Kristine mized Block-K Clustering IoT Clustering and Blockchain Sharding Strategy Using Deep Reinforcement Learning - Tianci Chen; L 14:50 - 15:10 15:10 - 15:30 Coffee Break (Golden Pavilion Room) Session D2P-F (Sapphire Room) Session D2P-H (Ruby Room) PICom B (Session Chair: Claudio Miceli, Federal University of Rio de Janeiro, Brazil) VSN Applications from Monolithic to a Modular Approach Based on the tinyDSM Middleware: Scenarios and Analysis - Jakub Mi Smart Parking: Detecting Vacant Spots from an Angled Viewpoint - Jan Leven Sayson; Alfa Valdehueza; Mac Jiem Maghanoy, Perly Rica Flore Stephen Haim; Francis Jann A Alagon; Stephanie Visitacion; Cherry Mae Villam; Steve Clar, Annet Zamaya; Earl Ryan Alaluya; Free Management Support Application for Operation Managers and Boosting System Soculy; To straishie Uchibayas Sich Chinasa Sueyoshi; Yos 15:30 - 15:50 ztof Piotrowski; Przemysław Zielony naoxuan Ge; Zhichao Lian 15:50 - 16:10 o Spatial Information for sEMG-Based Gesture Recognition Using Graph Attention Networks - Tong Xia: Feng Wang: Selichi Kawata: Juan ne) Model Uncertainty Based Unsupervised Real-Time Drift Detection in Network Traffic Classification - Minyao Liu: Pan Wang: Yingo 16:10 - 16:30 16:30 - 16:50 16:50 - 17:10 08:30 - 09:50 Keynote Talks (Golden Pavilion Room) 09:50 - 10:20 Coffee Break (Golden Pavilion Room) 10:20 - 10:40 nline) Short-term Solar Irradiance Forecasting Based on CNN-Transformer Model - Chuan Wang: Hua Wang: Jian Bi: Ke Yan 10:40 - 11:00 y-Efficient Reliable Data Storage Service in Heterogeneous Crowdsensing - Zhaoxiang Huang; Zhiwen Yu; Zhijle Huang; Erhe Yang; J 11:00 - 11:20 munication System with Non-ROI Image Compression - Chao Wu; Celimuge Wu; Jiale Wu; Yangfei L 11:20 - 11:40 uring by Fusing Multi-Stage Image Features - Shihua Zhang; Fan He; Xun Shao 11:40 - 12:00 ine) Stealthy Adversarial Patch for Evading Object Detectors Based On Sensitivity Maps - Ce Wang; Qianmu I nline) Pavement Crack Detection Based on Channel Attention Mechanism - Guoxi Liu; Bi Huang; Ning Liu; Xiaojing Wu; Li Yang; Fei Dai 12:00 - 13:30 Session D3P-A (Golden Pavilion Room) Session D3P-B (Sapphire Room) Session D3P-C (Jade Room) Session D3P-D (Ruby Room) CyberSciTech J (Session Chair: Yegang Du, Tohoku University, Japan) PICom C (Session Chair: Andrea Vinci, ICAR-CNR, Italy) CyberSciTech K (Session Chair: Guanqun Sun, Hanghzou M raph Neural Network with Imbalance-Aware Mechanism for Enhanced Fraud Detection - Y 13:30 - 13:50 ne) A Novel Framework of Constructing on Water Pipeline Networks by Node Embedding Approach - Avida Mustika Rukimi, Any Mazhs isiçi, Ahmad Saikhu and Muhammad Jelf Fransiska arvalve Efficient and Pinites Franse Rosilang Pinisay-Preserving Machine Learning Through Hybrid Homomorphic Encyption - Khoa augas Budzys, Eugene Frimpong, Tanvear Khan and Antonis Michalais 13:50 - 14:10 e News Detection Based on Contrast Learning and Cascading Attention - Fu Li; Hui Zhang; Zhichao Lian; Shujuan Wang nline) DICE: Distributed Code Generation and Execution - Kunal Rao; Gluseppe Coviello; Srimat Chakradhar ong Ren; Zhang Yu Qing ine) STFormer: Spatio-Temporal Transformer Network for Traffic Flow Prediction - Lecheng Li; Xinzhuo Chai; Fei Dai; Shuai Wang; Yueyu Do 14:10 - 14:30 14:30 - 14:50 ine) Prediction of Personal Evnosure to PM2.5 Lising a Network of Stationary and Wearable Air Quality Monitors - DK Arvind eraning Generative All to Enhance Automated Wilnerability Scoring - Severieb Lell Mirtaberi and Andrea Publisse line) Deadlock Analysis of Microservice Systems with Bounded Buffers - Li Yang; Bi Huang; Xinzhuo Chai; Guoxi Liu; Xiaojing Wu; Fei Dai Centric Based Energy and Comfort Optimization in Cognitive Buildings: A Review - Infanuliah Khan; Antonio Guerri en McCough; Glandomenico Spezzano 14:50 - 15:10 15:10 - 15:30 Session D3P-E (Golden Pavilion Room) Session D3P-G (Jade Room) Session D3P-H (Ruby Room) PICom D (Session Chair: Claudio Miceli, Federal University of Rio de Janeiro, Brazil) Cyber-IoT/BigCyberSecurity (Session Chair: Zhou Su, Xi'an Jiaotng University, China) Nerant Computation Offloading in Vehicular Networks Based on Local Blockchain - Xin Liu; Rui Wang; Rui Xing; Donglan Liu; Fan CyberSciTech L (Session Chair: Guanqun Sun, Hanghzou Medical College, China) IoT-Life (Session Chair: Hong Chen, Dailchi Institute of Technology, Japan) nline) Node Betweerness Centrality Based Defense Strategy Against Topology Inference Th ong: Yu Jiang: Qinglin Yang: Chenlu Zhuansun; Yanbin Sun; Shen Su; Zhihong Tian; Yuan L 15:30 - 15:50 lyzing the Impact of Effect Sounds on Real-World Human Emotions and Behaviors by Adding Effect Sounds to Human Actions - Xin Tong e) Network-Based Analysis of Alzheimer's Disease Using ADNI-Derived Synthetic Connectomes - Carmela Comito; Annalisa Socievole hang; Lili Sun 15:50 - 16:10 e) A Trust Evaluation and Concept Drift-Based Approach for Dynamic APT Evasion Detection - Han Liu: Baovu An: Yaovao 16:10 - 16:30 liong: Bo Wu wina; Giancarlo Fortino Thou Su; Yuntao Wang 16:30 - 16:50 arakrishnan; Priyanka Singla ne) identifying Emerging Research Topics in Computer Science Using Overlapping Community Detection on Graph Neural Network Predicted ine) Analyzing Eye-Movements of Drivers with Varying Levels of Experience During U-Turn Segment - Haojie Wang; Luyang Wan Duplicate Data Elimination Optimization Strategy Based on Edge Service Management - yonglin pu; Xiaolong Xu; Lianyong Qi; 16:50 - 17:10 Jun Wang; Bo Wu iraphs - Constantinos Djouvas; Christos Christodoulou; Antonis Charalampous; Nicolas Tsapatsoulis rwah; Michael Schroeter; Mohamed Rahouti 17:10 - 17:30 Online) A Domain Model for Urban Digital Twins - Stephan Haller nline) Fine-Grained Access Control for Lightweight Data Sharing of UAVs - Haojia Yang; Qichao Xu

08:00 - 11:00		
08:00 - 11:00	Registration (near Golden Pavilion Room)	
	Session D4A-A (Golden Pavilion Room)	Session D4A-B (Sapphire Room)
	CyberSciTech M (Session Chair: Chao Wu, The University of Electro-Communications, Japan)	CyberSciTech N (Session Chair: Ganggui Wang, The University of Electro-Communications, Japan)
08:30 - 08:50	DMCGF Dehazing Neural Network Design for Edge-Al Implementation - Kuo Yi Chang; Kun Lin Li; Ming-Hwa Sheu; Szu-Hong Wang	Checking the Neural Networks' Subitizing Ability and Proposing Three Challenges for Human-like Subitizing - Seongmin Kim; Kang-Hyun Jo
08:50 - 09:10	DORAC: Dynamic-Objects Removal And Clustering For Object Detection - Kwanho Kim; Dokyung Kim; Kanghyun Jo	3-DoF Pose Estimation of Vehicles on the Road - Jaehyeon Sung; Kanghyun Jo
09:10 - 09:30	Low-Frequency Injection for Performance Boosting of Image Classification - Minseung Kim; Jongchae Lee; Kang-Hyun Jo	Cross-Layer Performance Analysis of Delay-Doppler Domain Multi-Camier Modulation for Vehicular Networks - Ganggui Wang; Celimuge Wu; Yangtel Lin; Zhaoyang Du; Wugedele Bao; Ha Si
09:30 - 09:50		Towards Green Video: Energy-Saving Potentials in Streaming - Robert Seeliger; Martin Lasak; Görkern Güclü; Stefan Arbanowski; Stephan Steglich
09:50 - 10:10	Coffee Break (Golden Pavilion Room)	
	Session D4A-C (Golden Pavilion Room) Session D4A-D (Sapphire Room)	
	CyberSciTech O (Session Chair: Xiaoyu Wan, Chongqing University of Posts and Telecommunications, China)	PICom E (Session Chair: Antonio Guerrieri, National Research Council of Italy, Italy)
10:10 - 10:30	A Two-Stage Depression Recognition Model Based on Improved YOLOv5 and Spatial-Temporal CNN-Transformer Network - Jianing Zhao; Qun Jin	Improving the Adaptability of sEMG-Based Gesture Recognition Using Variational Mode Decomposition and Transfer Learning - Hao Wu; Feng Wang; Juan Zhao; Selichi Kawata; Jinhua She
10:30 - 10:50	Detection of Smoking Behaviors Using Human Key Point and YOLOv8 - WieXiong Zhang; Anton Louise P. De Ocampo; Rowell M. Hernandez	CPO-VMD Method for Denoising sEMG signals - Jingwen Liu; Jinhua She; Juan Zhao; Feng Wang; Selichi Kawata
10:50 – 11:10	Evorestores: A casion segmentation remotit for Filmary Liver Carlost from 50 CECT volume - Smith Huang, Jawes Lito, Alabya Wan, Alla Ne	Enhanced Gesture Recognition via Interpretable Temporal Convolutional Networks Utilizing Spatio-Temporal sEMG Features - Xiachu Ao; Jinhua She; Feng Wang; Selichi Kawata; Edwardo Fumihiko Fukushima; Jinseok Woo
11:10 – 11:30		AFRODITE - Optimizing Federated Learning in Resource-Constrained Environments Through Data Sampling Techniques - Mayara Aragão; Claudi Miceli de Farias; Flávia Colimbra Delicato; Pedro Henrique González
11:30 - 11:50	Bio-SSI: Self-Sovereign Identity Bound to Biometrics - Yoshiko Yasumura; Masakazu Fujio; Wataru Nakamura; Kenta Takahashi	
11:50 - 12:20	Closing Ceremony (Golden Pavilion Room)	
14:30 - 16:00	Conference Organizational Meeting	
	08:50 - 09:10 09:10 - 09:30 09:30 - 09:50 09:50 - 10:10 10:10 - 10:30 10:30 - 10:50 10:50 - 11:10 11:10 - 11:30 11:30 - 11:50 11:50 - 12:20	System (Section Chair: Chao Wu, The University of Electro-Communications, Japan) 08:30 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 08:50 08:50 – 10:50 08:5