

## ICDIS 2022 Technical Program

Time	Session Title	Reporting Order	Paper ID	Paper Information	Attend Method
<b>Thursday, 25th August 2022 (GMT+8)</b> <b>14:00pm-15:45pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 1:</b> <b>Data Security I</b> <b>Session Chair: Yang Liu, Chuanyi Liu</b> <b>Tencent Meeting (Domestic): 580-515-039</b> <b>VooV Meeting (International): 580-515-039</b> (on-site)	1	1100	Data Leakage Attack via Backdoor Misclassification Triggers of Deep Learning Models Xiangkai Yang, Wenjian Luo, Licai Zhang, Zhijian Chen and Jiahai Wang	on-site
		2	2779	FBIP: A New Robust Reversible Database Watermarking Technique Based on Position Tuples Wenchao Wang, Chuanyi Liu, Zhaoguo Wang and Tiancai Liang	on-site
		3	2163	A Robust Watermarking Method For Image Processing Models Minghua Hou, Linlin Tang, Shuhan Qi and Yang Liu	on-site
		4	4600	PyHENet: A Generic Framework for Privacy-Preserving DL Inference Based on Fully Homomorphic Encryption Qian Chen, Lin Yao, Yulin Wu, Xuan Wang, Weizhe Zhang, Zoe L. Jiang, Yang Liu, Mamoun Alazab	on-site
		5	1922	Local Energy Trading Platform Based on Privacy-Preserving Blockchain with Linkable Ring Signature Zoe L. Jiang, Yijian Pan, Maoshun Fan, Lin Yao, Yang Liu, Yulin Wu, Siu-Ming Yiu, Xuan Wang and Junbin Fang	on-site
		6	6241	Achieving Efficient and Privacy-Preserving Arbitrary Geographic Range Query for Cloud Chuan Zhang, Chenfei Hu, Mingyang Zhao, Yulin Wu and Tong Wu	on-site
		7	7750	Towards Privacy-Preserving Computation on Gene: Construct Covid-19 Phylogenetic Tree using Homomorphic Encryption Peiyi Han, Yunzhe Guo, Shaoming Duan, Chuanyi Liu and Yuxing Zhou	on-site
<b>Thursday, 25th August 2022 (GMT+8)</b> <b>14:00pm-15:45pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 2:</b> <b>Deep learning I</b> <b>Session Chair: Shaohuai Shi, Wen Xia</b> <b>Tencent Meeting (Domestic): 258-914-293</b> <b>VooV Meeting (International): 258-914-293</b> (on-site)	1	763	Black-Box Adversarial Attacks on Deep Neural Networks: A Survey Chenxu Wang, Ming Zhang, Jinjing Zhao and Xiaohui Kuang	on-site
		2	5917	IMPROVED XCEPTION WITH DUAL ATTENTION MECHANISM AND FEATURE FUSION FOR FACE FORGERY DETECTION Hao Lin, Weiqi Luo, Kangkang Wei and Minglin Liu	on-site
		3	4131	MCTrack: Multi-Head Contrastive Network for Visual Tracking Daohui Ge, Yunan Li, Bingwen Jia, Ruyi Liu and Qiguang Miao	on-site
		4	4163	MultiShadow: Shadow Synthesis for Multiple Virtual Objects Ye Ding, Qi Wan, Ziyuan Liu and Jie Wang	on-site
		5	2980	IReF: Improved Residual Feature For Video Frame Deletion Forensics Yigong Huang, Chunhui Feng and Dandan Bai	on-site
		6	8504	Temporal Knowledge Graph Reasoning based on Graph Convolution Network Chong Mo, Ye Wang, Yan Jia, Cui Luo and Ye Ding	on-site
		7	6722	Underwater Object Detection with Swin Transformer Yuqi Sun, Xuan Wang, Yi Zheng, Lin Yao, Shuhan Qi, Linlin Tang, Hong Yi and Kunlei Dong	on-site
<b>Thursday, 25th August 2022 (GMT+8)</b> <b>16:00pm-17:45pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 3:</b> <b>Data Mining</b> <b>Session Chair: Linlin Tang, Qing Liao</b> <b>Tencent Meeting (Domestic): 713-204-319</b> <b>VooV Meeting (International): 713-204-319</b> (on-site&online)	1	7544	Fast classification of indoor functional areas based on a pre-trained lightweight network Wenbai Chen, Guohong Yi, Huixiang Liu, Qili Chen, Weizhao Chen and Peiliang Wu	on-site
		2	8989	Behavioral Sequence Classification with Constraints Jiayang Wu, Wensheng Gan and Zhenlian Qi	on-site
		3	5613	Weighted Contiguous Sequential Pattern Mining Tingfu Zhou, Wensheng Gan and Zhenlian Qi	on-site
		4	632	Dynamic Graph Pattern Matching in Medical Knowledge Graphs Xun Du, Zhenchao Tao and Lei Li	online
		5	9434	Cultural Resource Recommender System With Knowledge Graph Convolutional Network Dafeng Zhang, Xingwei Wang, Qiang He, Fei Gao, Bo Yi and Min Huang	online
		6	2956	Cluster Affiliation Model for Local Community Detection Li Ni, Qi Zhou, Wei Li and Yiwen Zhang	online
		7	799	Fuzzy Utility Mining on Temporal Data Zhenqiang Ye, Shicheng Wan, Wensheng Gan, Jiahui Chen, Linlin Tang	online

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		2	6791	Intrusion Detection Method Based on Improved Sparrow Algorithm and Optimized SVM Zechao Liu, Ran Shi, Mingyu Lei and Yulin Wu	online
		3	8973	Improving Network Intrusion Detection Using Autoencoder Feature Residuals Brian Lewandowski, Randy Paffenroth and Kayleigh Campbell	online
		4	3575	Attacking Malware Detection using Adversarial Machine Learning Utkarsh Verma, Yonghong Huang, Carl Woodward, Craig Schmutz, Prashanth Palasamudram Ramagopal and Celeste Fralick	online
		5	6616	HLT: A Hierarchical Vulnerability Detection Model Based on Transformer Yupan Chen and Zhihong Liu	online
		6	5839	Detecting Vulnerabilities in Ethereum Smart Contracts with Deep Learning Zhendong Wu, Shan Li, Bin Wang, Tianjian Liu, Yongsheng Zhu, Chenming Zhu and Mingqing Hu	online
		7	7565	CFDMA: A Novel Click Fraud Detection Method in Mobile Advertising Yanglin Liu, Yang Liu and Mehdi Gheisari	online
<b>Friday, 26th August 2022 (GMT+8)</b> <b>9:00am-10:45am</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 5:</b> <b>Data Security II</b> <b>Session Chair: Peiyi Han, Junyi Li</b> <b>Tencent Meeting (Domestic):</b> <b>958-606-588</b> <b>VooV Meeting (International):</b> <b>958-606-588</b> <b>(online)</b>	1	921	A BSO-based Feature Selection Algorithm Under Privacy Protection Ying Hu, Wanqiu Zhang and Yong Zhang	online
		2	6047	A Negative Survey based Method for Preserving Topology Privacy in Social Networks Hao Jiang, Yuerong Liao and Qianwei Yu	online
		3	3029	NegDL: Privacy-preserving Deep Learning Based on Negative Database Dongdong Zhao, Pingchuan Zhang, Jianwen Xiang and Jing Tian	online
		4	7551	Empirical Study on Frequency Adversarial Perturbation for Medical Image Privacy Protection Yili Fang and Tao Yang	online
		5	8195	PPSL: Privacy-Preserving Text Classification for Split Learning Walaa Alnasser, Ghazaleh Beigi, Ahmadreza Mosallanezhad and Huan Liu	online
		6	5882	Data Security Search Based on Semi-Supervised Sensitive Classifier Shuting Jiao, Shu Zhang, Feng Gao and Ting Wang	online
		7	2043	Epsilon-Differentially Private and Fully Secure Logistic Regression on Vertically Split Data Angelo Saadeh, Vaibhavi Kumari and Stéphane Bressan	online
<b>Friday, 26th August 2022 (GMT+8)</b> <b>9:00am-10:45am</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 6:</b> <b>Applied Cryptography, Blockchain and Federated Learning</b> <b>Session Chair: Yulin Wu, Qing Liao</b> <b>Tencent Meeting (Domestic):</b> <b>225-500-595</b> <b>VooV Meeting (International):</b> <b>225-500-595</b> <b>(online)</b>	1	1755	Efficient Mixed-Protocol Secure Four-Party Computation with Private Robustness Zoe L. Jiang, Songjiang Shi, Hongxiao Wang, Peng Yang, Xuan Wang, Yulin Wu, Yantao Zhong and Yan Jia	online
		2	4221	Efficient Private Set Intersection Based on Functional Encryption Liyao Xiong, Zoe L. Jiang, Yi Huang, Jianzong Wang, Jing Xiao, Weizhe Zhang and Xuan Wang	online
		3	9784	Token Open Security Model for Updatable Encryption Yang Song and Haiying Gao	online
		4	1263	Performance Comparison of Cryptosystems in Context to Internet of Things Kriti Rai Saini, Vinayak Jigajinni and Jaya Dofe	online
		5	5413	Decoupling Consensus and Storage in Consortium Blockchains by Erasure Codes Dejun Xiang, Rui Zhou, Lingfei Ma, Qingming Zeng, Ximing Fu, Qiang Wang, Bin Chen and Yan Jia	online
		6	4898	A Secure and Large-Scale Multiparty Conditional Payment Scheme based on Blockchain Jinhui Liu, Bowen Zhang, Di Wu, Mingjie Li and Bo Tang	online
		7	1053	Generative Data Augmentation for Non-IID Problem in Decentralized Clinical Machine Learning Zirui Wang, Shaoming Duan, Chengyue Wu, Wenhao Lin, Xinyu Zha, Peiyi Han and Chuanyi Liu	online
<b>Friday, 26th August 2022 (GMT+8)</b> <b>11:00am-12:30pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 7:</b> <b>Attacks Detection and Defense Session</b> <b>Chair: Ximing Fu, Zoe. L. Jiang Tencent Meeting (Domestic):</b> <b>962-987-160</b> <b>VooV Meeting (International):</b> <b>962-987-160</b> <b>(online)</b>	1	1404	Reconfigurable Intelligent Surfaces: A Physical Layer Security Perspective Christoph Lipps, Jan Herbst, Rekha Reddy, Lars Franke, Sven Becker, Marco Rahmand Hans Dieter Schotten	online
		2	366	Wireless Smart Electric Meter Operation under Data Security Attacks Patrick Nnaji , Harsh Kumar and Sanjeev Kumar	online
		3	7268	Evaluation of Different ML and Text Processing Techniques for Hate Speech Detection Nabil Shawkat, Jesse Simpson and Jamil Saquer	online
		4	6189	Moving Target Defense Strategy Selection Method Based on Long-term Traffic Prediction Huan Zhang, Rongliang Chen, Kangfeng Zheng, Liang Gu and Xiujuan Wang	online

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		5	2423	Watermarking Pre-trained Encoders in Contrastive Learning Yutong Wu, Han Qiu, Tianwei Zhang, Jiwei Li and Meikang Qiu	online
		6	6458	Passwordless VPN using FIDO2 Security Keys Emin Huseynov	online
<b>Friday, 26th August 2022 (GMT+8)</b> <b>11:00am-12:30pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 8:            Game Theory and Intelligent Economic Analysis</b> <b>Session Chair: Jiajia Zhang, Shuhan Qi</b> <b>Tencent Meeting (Domestic):            577-414-616</b> <b>VooV Meeting (International):            577-414-616</b> (online)	1	9091	EFDO: Solving Extensive-Form Games Based On Double Oracle Song Qin, Lei Zhang, Shuhan Qi, Jiajia Zhang, Huale Li, Xuan Wang and Jing Xiao	online
		2	5934	NFSP-PER: An efficient sampling NFSP-based method with prioritized experience replay Huale Li, Shuhan Qi, Jiajia Zhang, Dandan Zhang, Lin Yao, Xuan Wang, Qi Li and Jing Xiao	online
		3	7320	Information Entropy of Uncertainty Control: An Uncertainty Management Method in Imperfect Information Games Jiajia Zhang, Mingxin Zhan, Shuhan Qi, Nanwei Yu, Dongrun Zheng, Xuan Wang and Jing Xiao	online
		4	5621	LwDeepStack: A lightweight DeepStack based on knowledge distillation Jiajia Zhang, Zengyue Guo, Huale Li, Xuan Wang, Dongming Liu, Shuhan Qi	online
		5	2571	Dual Feature Fusion Trade Execution Framework with DDQN Dongrun Zheng, Jiajia Zhang, Xuan Wang, Xiao Guo and Jing Xiao	online
		6	9998	Intelligent Residential Demand Response Optimization under Real-time Pricing: A Comparison of Heuristics Malik Ali Judge, Awais Manzoor, Saif Ul Islam and Ishfaq Ahmad	online
<b>Friday, 26th August 2022 (GMT+8)</b> <b>14:00pm-16:00pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A )	<b>Technical Session 9:            Immune Computation, Robust and Dyanmic Optimization, User Security</b> <b>Session Chair: Bin Chen, Junyi Li</b> <b>Tencent Meeting (Domestic):            491-911-364</b> <b>VooV Meeting (International):            491-911-364</b> (online)	1	1,196	Reconstructing Negative Survey with Least Squares Criterion Ran Liu, Tian Gao and Mingqiang Guo	online
		2	5833	Accuracy Prediction of Negative Surveys Ran Liu, Fengzhen Yu and Mingqiang Guo	online
		3	1529	Vision and Knowledge Bimodal Fine-grained Recognition Based on Hierarchical Structured Knowledge Extraction Rongping Zou, Bin Zhu, Yi Chen and Bo Xie	online
		4	8179	Recurrence Quantification Analysis for PPG/ECG-Based Subject Authentication Turkey N. Alotaiby, Saleh A. Alshebeili, Gaseb Alotibi and Ghaith N. Alotaibi	online
		5	3247	Membership Inference Countermeasure With A Partially Synthetic Data Approach Wakana Maeda, Yuji Higuchi, Kazuhiro Minami and Ikuya Morikawa	online
		6	3008	Robust Initialization for Stereo Visual-Inertial SLAM with Polar-Based Gravity Estimation Yifan Liu, Yuan Rao, Guanqi Qi, Hao Fan and Junyu Dong	online
		7	953	A Review on Serious Games for Disaster Relief Huangsheng Ning, Zhangfeng Pi, Wenxi Wang, Fadi Farha and Shunkun Yang	online
		8	3235	DE with A new population initialization method for the dynamic multidimensional knapsack problems Qi Qiu, Junyi He and Tao Zhu	online
<b>Friday, 26th August 2022 (GMT+8)</b> <b>16:15pm-18:15pm</b> (each paper has 10 mins for presentation and 5 mins for Q&A)	<b>Technical Session 10:            Deep learning II</b> <b>Session Chair: Shuhan Qi, Yulin Wu</b> <b>Tencent Meeting (Domestic):            663-687-404</b> <b>VooV Meeting (International):            663-687-404</b> (online)	1	7187	Context Feature Guided Network for Image Super-resolution Mengxi Ya, Tao Dai, Ling Liu, Jieyin Lv and Shu-Tao Xia	online
		2	6596	Calibrated Relighting Network for Image Light Transfer Cong Li, Yuan Rao, Jian Yang, Kai Yang, Hao Fan and Junyu Dong	online
		3	978	Visual Semantic SLAM Based on Examination of Moving Consistency in Dynamic Scenes Kai Yang, Yumeng Jiang, Lin Qi, Hao Fan, Shu Zhang and Junyu Dong	online
		4	5736	Open-set Pets Facial Recognition Using Deep Learning and Statistical Learning Zhizhi Zhang and Zihan Ji	online
		5	5991	RGCFace: Regularized Global Center loss for Deep Facial Expression Recognition Qiong Liu, Yangcheng Zhou, Wei Liu, Guangrui Li, Chenxu Li and Wenbai Chen	online
		6	8142	A Light Model for Corrosion Segmentation with Multi-Scale Information and CRF Jingxu Huang, Lang Xiang, Guangrui Li and Qiong Liu	online
		7	4185	A Multiscale Windows Deep Learning Approach For Sensor-Based Human Activity Recogniton Furong Duan, Tao Zhu, JinQiang Wang and Zhenyu Liu	online
		8	1556	Stylistic Pattern Guided Tip Extraction from Music Reviews Jingya Zang and Anguo Dong	online