IPCCC 2024 Virtual Day ▪ Sunday, November 17ᵀᴴ

▪ Virtual Technical Sessions (Online Zoom Sessions) ▪
▪ Opening Remarks: 08:20-08:30 EST ▪

Session V1A: Network-1
▪ 08:30-09:30 EST | Virtual ▪
Chair: Akshita Maradapu Vera Venkata Sai
(Towson University, USA)

CART: Concurrent Asynchronous Ratchet Tree for Group Messaging: Xinyue Xu, Baosheng Wang, Qianqian Xing and Xiaofeng Wang (National University of Defense Technology, China)

PIB Sketch: Accurately Tracking Persistent and Infrequent Flows with Bursty Characteristic: Xuetao Liu, Jing Shao, Sitan Li, Yilin Zhao and Jiawei Huang (Central South University, China)

Correlation Analysis for Exploring Large-scale Latency Variability in WANs: Zhou Ying, Mingzhen Wu and Fei Song (Beijing Jiaotong University, China)

AST-trans: Detecting Web Tracking Using Transformer-based Deep Learning with Abstract Syntax Tree: Yong Yuan, Ziling Wei, Lin Liu and Shuhui Chen (National University of Defense Technology, China); Jinshu Su (National University of Defence Technology, China)

Session V1B: AI
▪ 08:30-09:30 EST | Virtual ▪
Chair: Xinliang Wei
(SIAT, Chinese Academy of Sciences, China)

A Dexterous Hybrid Attention Transformer for MRI Super-resolution of Brain Tumors: Mingxuan Li (Qilu University of Technology (Shandong Academy of Sciences, China); Yingchun Cui (Heilongjiang University, China); Jinbao Li (Shandong Artificial Intelligence Institute, Qilu University of Technology, China)

CAUDA: Cloud-assisted Active Unsupervised Domain Adaptation for On-device Learning: Zefu Wang, Zhenzhe Zheng and Fan Wu (Shanghai Jiao Tong University, China)

DP-Prune: Global Optimal Strategy for Retraining-free Pruning of Transformer Models: Guangzhen Yao, Long Zhang, Sandong Zhu and Miao Qi (Northeast Normal University, China)

Large Language Model Guided State Selection Approach for Fuzzing Network Protocol: Bo Yu, Qihong Song, Chengnuo Cai (National University of Defense Technology, China)

Session V2A: Network-2
▪ 09:30-10:30 EST | Virtual ▪
Chair: Chenyu Wang
(Kennesaw State University, USA)

Spreading Computations for Loop-free Multipath Routing in Computer Networks: Jj Garcia-Luna-Aceves, Morteza Moghaddassian and Charles Hsieh (University of Toronto, Canada)

TYLE: Tile-based Dynamic Quality Enhancement for 360-degree Video Streaming: Sonali Keshava Murthy Naik, Mea Wang and Diwakar Krishnamurthy (University of Calgary, Canada)

P2Sketch: Finding Persistent Items in Data Streams Based on Periodic Arrival: Jiawei Huang, Qi Liang, Jing Shao, Qile Wang, Yilin Zhao, Hui Li, Sitan Li and Shu Lin (Central South University, China)

Stochastic Network Calculus Based Quality of Service Guarantee for Multi-class Traffic: Yunlan Wang, Qing Wang and Zhao TianHai (Northwestern Polytechnical University, China)

Session V2B: Security
▪ 09:30-10:30 EST | Virtual ▪
Chair: Zoubin Xiong
(University of Nevada, Las Vegas, USA)

StreamDP: Continual Observation of Real-world Data Streams with Differential Privacy: Shuailou Li (Institute of Information Engineering, Chinese Academy of Sciences, China); Yu Wen, Zhaoyang Wang, Wenbo Wang, Lisong Zhang and Dan Meng (Institute of Information Engineering, China)

Smart Contract Vulnerability Detection Based on AST-augmented Heterogeneous Graphs Haikuo Li and Gang Xiong (Institute of Information Engineering, Chinese Academy of Sciences, China); Chengshang Hou (Schools of Cyber Security, University of Chinese Academy of Sciences & Institute of Information Engineering, Chinese Academy of Sciences, China); Gaopeng Gou (Institute of Information Engineering Chinese Academy of Sciences, China); Ziqian Chen (Institute of Information Engineering, Chinese Academy of Sciences, China); Zhen Li (Chinese Academy of Sciences, China)

FingerMamba: Mamba-based Efficient Multi-tab Website Fingerprinting: Lin Liu, Ziling Wei, Shuhui Chen and Zixuan Dong (National University of Defense Technology, China); Jinshu Su (National University of Defence Technology, China)

RecoSelector: Cost-Sensitive Feature Selection for Network Intrusion Detection in Resource-Constrained Internet of Things: Ziqian Chen (Institute of Information Engineering, Chinese Academy of Sciences, China); Wei Xia (Chinese Academy of Sciences, China); Gang Xiong (Institute of Information Engineering, Chinese Academy of Sciences, China); Zhen Li (Chinese Academy of Sciences, China); Gaopeng Gou (Institute of Information Engineering Chinese Academy of Sciences, China)

IEEE IPCCC 2024

THE INTERNATIONAL PERFORMANCE, COMPUTING AND COMMUNICATIONS CONFERENCE IS THE PREMIER IEEE CONFERENCE PRESENTING RESEARCH IN THE PERFORMANCE OF COMPUTER AND COMMUNICATIONS SYSTEMS. FOR FOUR DECADES IPCCC HAS BEEN A RESEARCH FORUM FOR ACADEMIC, INDUSTRIAL AND GOVERNMENT RESEARCHERS.

Session V3A: Network-3
▪ 20:30-21:45 EST | Virtual ▪
Chair: Honghui Xu
(Kennesaw State University, USA)

Session V3B: System & AI
▪ 20:30-21:45 EST | Virtual ▪
Chair: A B M Mohaimenur Rahman
(University of North Carolina at Charlotte, USA)

Failed Yet Stored: A First Look at DNS Negative Caching: Meng Zeng (University of Chinese Academy of Sciences & Institute of Information Engineering, Chinese Academy of Sciences, China); Yujia Zhu (Chinese Academy of Sciences, China); Baiyang Li (Institute of Information Engineering, Chinese Academy of Sciences, China); Yuedong Zhang (CNCERT, China); Qingyun Liu (Institute of Information Engineering, Chinese Academy of Sciences, China); Binxing Fang (Harbin Institute of Technology, China)

P4-FILB: Stateless Load Balancing Mechanism in Firewall and IPv6 Environment with P4: Haizhang Zhu (Institute of Information Engineering, China); Zhongyi Zhang (Chinese Academy of Sciences, China); Zhou Zhou (Institute of Information Engineering, Chinese Academy of Sciences, China); Chengwei Peng (National Computer Network Emergency Response Technical Team, China); Hongfei Zhang (Institute of Information Engineering, Chinese Academy of Sciences, China); Shu Li and Rong Yang (Chinese Academy of Sciences, China); Qingyun Liu (Institute of Information Engineering, Chinese Academy of Sciences, China)

ZBanner: Fast Stateless Scanning Capable of Obtaining Responses Over TCP: Chiyu Chen, Yuliang Lu, Guozheng Yang, Yi Xie and Shasha Guo (National University of Defense Technology, China)

Locating the Root Cause of Large-scale BGP Anomaly with Routing Dependence: Zhao Shiqi (Beijing University of Posts and Telecommunications, China)

Learning-Empowered Resource Allocation in UxNB-Enabled Sliced HetECNs (Workshop): Wei Xingchen (Army Engineering University of PLA, China); Peng Laixian (Institute of Communication Engineering, China); Renhui Xu (Nanjing Institute of Communication Engineering, China); Wang Hai (Institute of Communication Engineering, China)

Adaptive Cache Optimization Integrating Spatiotemporal Analysis and Sliding Modules: Xinxuan Hang, Quan Zheng, Wenjing Jing, Qisheng Su, Feng Yang and Xiaobin Tan (University of Science and Technology of China, China)

DASIV: Directional Acoustic Sensing based Intelligent Vehicle Interaction System: Dinghua Zhao (Shanghaijiaotong University, China); Juntao Zhou, Dian Ding and Yu Lu (Shanghai Jiao Tong University, China); Yijie Li (National University of Singapore, Singapore); Hang Yang, Yi-Chao Chen and Guangtao Xue (Shanghai Jiao Tong University, China)

RESD: High-Performance RDMA-enabled Control Plane for NVMe Shared-Disk Cluster: Chenming Chang, Jiawei Li, Yucheng Kang, Yupeng Chen and Yi Zhang (China Telecom eSurfing Cloud, China)

SndGLM-SA: A Social Network Debate Text Generation Model Based on Sentiment Analysis: Tao Tian (University of Electronic Science and Technology of China, China)