## Internetware 2020 Program (SGT UTC+8)

	Day 1: 12 May, 2021 (Wednesday)
09:30 - 09:50	Opening
09:50 - 10:50	Keynote 1: TBD
10:50 - 11:00	Break
	Software Design & Development (Session Chair: TBD)
	An Empirical Study of Multi-discussing Pattern in Open-Source Software Development Cheng Yang (National University of Defense Technology, China), Dongyang Hu (National University of Defense Technology, China), Yang Zhang (National University of Defense Technology, China), Yue Yu (National University of Defense Technology, China)
	An Empirical Study of Architectural Changes in Code Commits Di Cui (Xi'an Jiaotong University, China), Jiaqi Guo (Xi'an Jiaotong University, China), Ting Liu (Xi'an Jiaotong University, China), Qinghua Zheng (Xi'an Jiaotong University, China)
11:00 - 12:00	A Feature Table approach to decomposing monolithic applications into microservices Yuyang Wei (Nanjing University, China), Yijun Yu (The Open University, United Kiongdom), Minxue Pan(Nanjing University, China), Tian Zhang (Nanjing University, China)
12:00 - 14:00	Break
	Software Testing (Session Chair: TBD)
	Enhancing FSCS-ART through Test Input Quantization and Inverted Lists  Muhammad Ashfaq (Jiangsu University, China), Rubing Huang (Jiangsu University, China)  Michael Omari (Takoradi Technical University, Ghana)
	Testing for Dynamic Software Update: An Object-State-Oriented Approach Di Huang (Nanjing University, China), Zelin Zhao (Nanjing University, China), Xiaoxing Ma (Nanjing University, China)
	GUI testing for mobile applications: objectives, approaches and challenges Kabir S. Said (Zhejiang Sci-Tech University, China), Liming Nie (Zhejiang Sci-Tech University, China), Adekunle A. Ajibode (Zhejiang Sci-Tech University, China), Xueyi Zhou (Zhejiang Sci-Tech University, China)
14:00 - 15:20	Automatically Detecting Defects Related to External Resources in Android Applications Linna Xie (Nanjing University, China), Yu Pei (The Hong Kong Polytechnic University, China), Minxue Pan (Nanjing University, China), Tian Zhang (Nanjing University, China)
15:20 - 15:30	Break
	Blockchain (Session Chair: TBD)
	Blockchain-based Bidirectional Transformations for Access Control and Data Sharing in EMRs Tao Zan (Longyan University, China), Zhenjiang Hu (Peking University, China)

	Group Activity Matching with Blockchain Backed Credible Commitment Tianyi Wu (Fudan University, China), Liwei Shen (Fudan University, China), Xin Peng (Fudan University, China), Biao Shen (Fudan University, China), Zhengjie Li (Fudan University, China)
	Power Trading Model for Distributed Power Generation Systems Based on Consortium Blockchains Ran Chen (Kunming Power Exchange Center Co. Ltd., China), Jiabei Zhang (Kunming Power Exchange Center Co. Ltd., China), Fuquan Yuan (Insigma Hengtian Software Ltd., China), Bo Zhou (Zhejiang University, China), Wei Shi (Insigma Hengtian Software Ltd., China), Haiming Zhou (Insigma Hengtian Software Ltd., China)
16:30 - 16:40	Break
	Short Paper - Oral I (Session Chair: TBD)
	Probabilistic Verification of Neural Networks Against Group Fairness  Bing Sun (Singapore Management University, Singapore), Jun Sun (Singapore Management University, Singapore)
	Toward Testing Neural Network Interpretability  Mengdi Zhang (Singapore Management University, Singapore),
	BiFF: An Effective Binary Fuzzing Framework with Cross-Architecture Support Cen Zhang (Nanyang Technological University, Singapore)
16:40 - 17:20	Adversarial Attacks of Anomaly Detectors with AI for Cyber-Physical Systems  Yifan Jia (Singapore University of Technology and Design, Singapore)

Day 2: 13 May, 2021 (Thursday)		
09:30 - 10:30	Keynote 2: TBD	
10:30 - 10:40	Break	
	Fuzzing and Security (Session Chair: TBD)	
	EOSFuzzer: Fuzzing EOSIO Smart Contracts for Vulnerability Detection Yuhe Huang (Beihang University, China), Bo Jiang (Beihang University, China), W. K. Chan (City University of Hong Kong)	
	BGNN4VD: Constructing Bilateral Graph Neural-Network for Vulnerability Detection (Journal-First) Sicong Cao(Yangzhou University, China), Xiaobing Sun (Yangzhou University, China), Lili Bo (Yangzhou University, China), Ying Wei (Yangzhou University, China), Bin Li (Yangzhou University, China)	
	Data and Knowledge-driven Named Entity Recognition for Cyber Security Chen Gao (Yunan University, China), Xuan Zhang (Key Laboratory of Software Engineering of Yunnan Province, China), Hui Liu (Yunan University, China)	
10:40 - 11:50	Firmware Fuzzing: The State of the Art (Short Paper) Chi Zhang (Nanjing University, China), Yu Wang (Nanjing University, China), Linzhang Wang (Nanjing University, China)	
11:50 - 14:00	Break	
	Software Mining (Session Chair: TBD)	

Self-Attention Networks for Code Search (Journal-First)

Sen Fang (Macau University of Science and Technology), Youshuai Tan (Harbin Engineering University, China),

Tao Zhang (Macau University of Science and Technology)

Icon2Code: Recommending Code Implementations for Android GUI Components (Journal-First)

Yanjie Zhao (Monash University, Australia), Li Li (Monash University, Australia), Xiaoyu Sun (Monash University, Australia),

Pei Liu (Monash University, Australia), John Grundy (Monash University, Australia)

Adaptive Code Completion with Meta-learning

Livu Fang (Nanjing University of Ageronautics and Astronautics, China).

Zhiqiu Huang (Nanjing University of Aaeronautics and Astronautics, China),

Yu Zhou (Nanjing University of Aaeronautics and Astronautics, China)

What Makes Open Source Software Projects Impactful: A Data-Driven Approach

Huaiwei Yang (Tianjin University, China), Shuang Liu (Tianjin University, China),

Lin Gui (National University of Singapore, Singapore), Yongxin Zhao (East China Normal University, China),

14:00 - 15:20 Jun Sun (Singapore Management University, Singapore), Junjie Chen(Tianjin University, China)

15:20 - 15:30

Break

## System (Session Chair: TBD)

Hermes: Efficient Cache Management for Container-based Serverless Computing

Bowen Yan (University of Chinese Academy of Sciences, China), Heran Gao (University of Chinese Academy of Sciences, China), Heng Wu (Institute of Software Chinese Academy of Sciences, China), Wenbo Zhang (Institute of Software Chinese Academy of Sciences, China), Yuewen Wu (Institute of Software Chinese Academy of Sciences, China), Tao Huang (Institute of Software Chinese Academy of Sciences, China)

Simulated or Physical? An Empirical Study on Input Validation for Context-aware Systems in Different Environments Jinchi Chen (Nanjing University, China), Yi Qin (Nanjing University, China), Huiyan Wang (Nanjing University, China), Chang Xu (Nanjing University, China)

Best Answerers Prediction With Topic Based GAT In Q&A Sites

Yuexin Huang (Beijing Advanced Innovation Center for Big Data and Brain Computing, China),

Hailong Sun (Beijing Advanced Innovation Center for Big Data and Brain Computing, China)

Lightweight Map-Enhanced 3D Object Detection and Tracking for Autonomous Driving

Lei Gong (University of Science and Technology of China), Shunhong Wang (University of Science and Technology of China), Yu Zhang (University of Science and Technology of China), Yanyong Zhang (University of Science and Technology of China),

15:30 - 16:50 Jianmin Ji (University of Science and Technology of China)

16:50 - 17:00

Break

## Short Paper - Oral II (Session Chair: TBD)

Towards More Secure and Efficient Smart Contracts

Bo Gao (Singapore University of Technology and Design, Singapore)

Path-Oriented Falsification of Nondeterministic Cyber-Physical Systems

Jiawan Wang (Nanjing University, China), Lei Bu (Nanjing University, China), Shaopeng Xing (Nanjing University, China), Xuandong Li (Nanjing University, China)

	Investigating the Impact of Issue Links on Bug Localization
17:00 - 17:30	Di Cui (Xi'an Jiaotong University, China), Xue Ma (Xi'an Jiaotong University, China)

	Day 3: 14 May, 2021 (Friday)
09:30 - 10:30	Keynote 3: TBD
10:30 - 10:40	Break
	Machine Learning (Session Chair: TBD)
	SEDL: A Symmetric Encryption Method Based on Deep Learning Xiang Li (Tsinghua University, China), Peng Wang (Southeast University, China)
	Improving High-impact Bug Report Prediction with Combination of Interactive Machine Learning and Active Learning (Journal-First) Xiaoxue Wu (Northwestern Polytechnical University, China), Wei Zheng (Northwestern Polytechnical Universitym, China), Xiang Chen (Nantong University, China), Yu Zhao (University of Kentucky, US), Tingting Yu (University of Kentucky, US), Dejun Mu (Northwestern Polytechnical Universitym, China)
	Training Deep Code Comment Generation Model via Data Augmentation Xiaoqing Zhang (Nanjing University of Aeronautics and Astronautics, China), Yu Zhou (Nanjing University of Aeronautics and Astronautics, China), Tingting Han (University of London, United Kiongdom), Taolue Chen (University of Surrey, United Kiongdom)
10:40 - 12:00	Dynamic Time Window based Reward for Reinforcement Learning in Continuous Integration Testing Chaoyue Pan( Beijing University of Chemical Technology, China), Yang Yang ( Beijing University of Chemical Technology, China), Zheng Li ( Beijing University of Chemical Technology, China), Junxia Guo ( Beijing University of Chemical Technology, China)
11:55 - 14:00	Break
	Infrastructures (Session Chair: TBD)
	TIDY: A PBE-based Framework Supporting Smart Transformations for Entity Consistency in PowerPoint (Journal-First) Shuguan Liu (Nanjing University, China), Chang Xu (Nanjing University, China)
	Exploring the Dependency Network of Docker Containers: Structure, Diversity, and Relationship Yinyuan Zhang (National University of Defense Technology, China), Yang Zhang (National University of Defense Technology, China), Yiwen Wu(National University of Defense Technology, China), Yang Chatonal University of Defense Technology, China), Tao Wang (National University of Defense Technology, China)
	Checking Causal Consistency of MongoDB Hongrong Ouyang (Nanjing University, China), Hengfeng Wei(Nanjing University, China), Yu Huang(Nanjing University, China)
14:00 - 15:20	Scheduling Distributed Deep Learning Jobs in Heterogeneous Cluster with Placement Awareness Qingping Li (Sensetime, China), Jingwei Xu (Nanjing University), Chun Cao (Nanjing University, China)
15:20 - 15:30	Break
	Programming and Analysis (Session Chair: TBD)

SAT and LP Collaborative Bounded Timing Analysis of Scenario-Based Specifications
Longlong Lu (Nanjing University, China), Wenhua Yang (Nanjing University of Aeronautics and Astronautics, China),
Minxue Pan (Nanjing University, China), Tian Zhang (Nanjing University, China)

Accelerating Accuracy Improvement for Floating Point Programs via Memory Based Pruning Anxiang Xiao (Nanjing University, China), Enyi Tang (Nanjing University, China), Xin Chen (Nanjing University, China), Linzhang Wang (Nanjing University, China)

Overwhelming Uncertainty in Self-adaptation: An Empirical Study on PLA and CobRA Jingxin Fan (Nanjing University, China), Yanxiang Tong (Nanjing University, China), Yi Qin (Nanjing University, China), Xiaoxing Ma (Nanjing University, China)

ASPDup: AST-Sequence-based Progressive Duplicate Code Detection Tool for Onsite Programming Code (Short Paper)
Yaoshen Yu (Nanjing University of Aeronautics and Astronautics, China), Zhiqiu Huang (Nanjing University of Aeronautics and Astronautics, China), Weiwei Li (Nanjing University of Aeronautics
15:30 - 16:40

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