

Proceedings

**2020 International Conference
on Networking and Network Applications**

NaNA 2020

11- 14 December 2020

Hainan University, Haikou, China

Technical Sponsors

Hainan University, China

Xidian University, China

Future University Hakodate, Japan

Wakkanai Hokusei Gakuen University, Japan



Conference Schedule

Date	Time	Conference Program	
2020-12-11	9:00-21:00	Registration at Hainan University International Academic Exchange Center	
2020-12-12	08:00-12:00	Registration at Hainan University International Academic Exchange Center	
	09:00-09:15	Welcome Speech (Norio Shiratori)	
	09:15-09:30	Opening Remarks (Xianfeng Chen)	
	09:30-09:50	Group Photo Taken	
	09:50-10:40	Keynote Speech 1 (Prof. Xiangyang Li)	
	10:40-11:10	Coffee break	
	11:10-12:00	Keynote Speech 2 (Prof. Chao Shen)	
	12:00-14:00	Lunch	
	14:00-15:40	Session A1 (He Bian Hall)	Session B1 (He Xun Hall)
	15:40-16:00	Coffee break	
	16:00-18:00	Session A2 (He Bian Hall)	Session B2 (He Xun Hall)
	18:00-20:00	Gala	
2020-12-13	09:00-10:15	Session A3 (He Bian Hall)	Session B3 (He Xun Hall)
	10:15-10:35	Coffee break	
	10:35-11:50	Session A4 (He Bian Hall)	Session B4 (He Xun Hall)
	12:00-14:00	Lunch	
	14:00-15:40	Session A5 (He Bian Hall)	Session B5 (He Xun Hall)
	15:40-16:00	Coffee break	
	16:00-17:30	Session A6 (He Bian Hall)	Session B6 (He Xun Hall)
	18:00-20:00	Dinner	
2020-12-14	09:00-10:30	Session A7 (He Bian Hall)	Session B7 (He Xun Hall)
	10:30-10:55	Coffee break	
	10:55-11:25	Closing Remarks (Chunjie Cao)	
	11:25-11:50	Free discussion	
	12:00-14:00	Lunch	
	14:00-16:00	TPC Meeting	

Rooms He Bian Hall & He Xun Hall, Hainan University International Academic Exchange Center.

Greeting Message from General Conference Chairs

Welcome to 2020 International Conference on Networking and Network Applications (NaNA2020)! Welcome to Haikou, China! We believe that the solid conference program and the amazing city of Haikou will offer you irresistible attraction.

The NaNA2020 is technically sponsored by Hainan University, China, Xidian University, China, Future University Hakodate, Japan, and Wakkanai Hokusei Gakuen University, Japan. At this very moment, we would like to thank the program committees and the organizing staffs for their hard work. We would like to deliver our appreciation to the keynote speakers for their great contributions to this conference.

This conference aims to gather researchers from different areas and disciplines to present results and participate in discussions under the common themes of Wireless Networks, Wired Networks and Data Center (DC) Networks, Network Management, Monitoring and Automation, and Network Applications. It is expected that the interactions provided by the conference will facilitate a better understanding of the diversity of the different approaches as well as of their similarities. In addition, it will open the way for applying approaches that have been successful in one area to problem solving in other different areas and applications.

We wish you will enjoy the successful deliberations, stimulating discussions and new friendships the conference can offer. We look forward to seeing all of you in Haikou, China.

NaNA2020 General Co-Chairs
Chunjie Cao, Hainan University, China
Tarik Taleb, Aalto University, Finland
Naijie Gu, University of Science and Technology of China, China

Dec.12, 2020

Committees

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Bo Liu, Shaanxi Normal University, China

Track Co-Chairs:

Track 1: Wireless Networks

Gabriel-Miro Muntean, Dublin City University, Ireland

Changqiao Xu, Beijing University of Posts and Telecommunications, China

Chi Zhang, University of Science and Technology of China, China

Track 2: Optical Networks and Data Center (DC) Networks

János Tapolcai, Budapest University of Technology and Economics, Hungary

Massimo Tornatore, Politecnico di Milano, Italy

Rentao Gu, Beijing University of Posts and Telecommunications, China

Track 3: Network Management, Monitoring and Automation

Zhenqiang Wu, Shaanxi Normal University, China

Masaru Fukushi, Yamaguchi University, Japan

Guilin Chen, Chuzhou University, China

Track 4: Network Applications

Vajirasak Vanijja, King Mongkut's University of Technology Thonburi, Thailand

Xiaojiang Chen, Northwest University, China

Wei Su, Beijing Jiaotong University, China

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Keynote Speech 1:

Edge-Centric Intelligent Computing: Intelligence, Privacy and Applications

Prof. Xiangyang Li

University of Science and Technology of China, China



Abstract: Nowadays, we have witnessed the explosion of data and devices in the areas of IoT and mobile computing. Moreover, we are facing more and more complicated computation tasks, serious privacy and security problems, and critical delay requirements. All these challenges call for the application of edge computing to deploy computing resource closed to mobile users and the data source. In this talk, based on our own research results, we will mainly focus on the theory and platform implementation of edge intelligence, including online intelligence, distributed intelligence, as well as the privacy and security issues involved. We will also elaborate our current progress in the key applications of our edge platform such as Automatic Driving and AIoT Security.

CV: Dr. Xiangyang Li is currently a professor and Executive Dean at School of Computer Science and Technology, USTC and co-Chair of ACM China Council. He is an ACM Fellow (2020), IEEE fellow (2015), an ACM Distinguished Scientist (2014). He was a full professor at Computer Science Department of IIT, and an EMC Visiting Chair Professor at Tsinghua University (2013-2016). Dr. Li received MS (2000) and PhD (2001) degree at Department of Computer Science from University of Illinois at Urbana-Champaign. He received a Bachelor degree at Department of Computer Science from Tsinghua University, P.R. China, in 1995. His research interests include artificial intelligence of things, edge computing, privacy and security, data sharing and trading, and algorithms. His Google-scholar citation is more than 22,000, and H-index is 76. Dr. Li and his students won 7 best paper awards, won the best paper award, the best demo award and the best poster award from ACM MobiCom, and was selected as best paper candidates of ACM MobiCom twice. Dr. Li has served or is serving as an editor of several journals, including IEEE/ACM ToN, IEEE TPDS, and IEEE TMC.

Keynote Speech 2:

Data-Driven Security Analysis of Machine Learning Systems

Prof. Chao Shen
Xi'an Jiaotong University, China



Abstract: Human society is witnessing a wave of machine learning (ML) driven by deep learning techniques, bringing a technological revolution for human production and life. In some specific fields, ML has achieved or even surpassed human-level performance. However, most previous machine learning theories have not considered the open and even adversarial environments, and the security and privacy issues are gradually rising. Besides of insecure code implementations, biased models, adversarial examples, sensor spoofing can also lead to security risks, which are hard to be discovered by traditional security analysis tools. This talk reviews previous works on ML system security and privacy, revealing potential security and privacy risks. Firstly, we introduce a threat model of ML systems, including attack surfaces, attack capabilities and attack goals. Second, we analyze security risks and countermeasures in terms of four critical components in ML systems: data input (sensor), data preprocessing, machine learning model and output. Finally, we discuss future research trends on the security of ML systems. The aim is to arise the attention of the computer security society and the ML society on security and privacy of ML systems, and so that they can work together to unlock ML's potential to build a bright future.

CV: Chao Shen is a Professor in School of Electronic and Information Engineering, and serves as the Associate Dean of School of Cyber Science and Engineering, at Xi'an Jiaotong University. He is also a member of Ministry of Education Key Lab for Intelligent Networks and Network Security. He was a research scholar in Computer Science Department of Carnegie Mellon University from 2011 to 2013. He has published over 70 papers in prestigious journals and conferences of cyber security and artificial intelligence fields such as USENIX Security, ACM CCS, IEEE TDSC, IEEE TIFS, Automatica, IEEE TNNLS, and ACM TKDD. He was the recipient of NSFC Excellent Young Scientists Fund. He serves as an associate editor of several international journals, as well as organization committee member or program committee member of several academic conferences.

Opening Remarks and Keynotes

2020-12-12 9:00-12:00			
Time	Conference Program	Spokesman	Chairman
09:00-09:15	Welcome Speech	Norio Shiratori	Xiaoyi Zhou
09:15-09:30	Opening Remarks	Xianfeng Chen	Xiaoyi Zhou
09:30-09:50	Group Photo Taken		Xiaoyi Zhou
09:50-10:40	Keynote Speech 1	Xiangyang Li	Hong Lei
10:40-11:10	Coffee break		
11:10-12:00	Keynote Speech 2	Chao Shen	Dian Zhang

Tencent conference is used for online participation, the relevant information is shown in the table.

Time	Conference theme	Conference ID	Conference Password
2020.12.12-2020.12.12 08:00-18:00	Opening Remarks and Keynote Speech	689 7761 8735	202012
2020.12.12-2020.12.14 08:00-18:00	SessionA1-A7	689 7761 8735	202012
2020.12.12-2020.12.14 08:00-18:00	SessionB1-B7	395 7326 3426	202012

Track 1:Wireless Networks

2020-12-12 14:00-15:40 He Bian Hall				
Session A1 Chair: Bo Tian				
ID	Time	Title	Author	Type
45	14:00-14:20	Physical Layer Authentication Utilizing Carrier Frequency Offset in Dynamic MIMO Systems	Yangyang Liu and Pinchang Zhang	Long
55	14:20-14:40	Incremental-Compensation Based Robust Topology Control for Micro/Nano Satellite Network	Yuyu Hu, Zhao Li, Jingling Li, Zhixian Chang, Yang Xu and Jia Liu	Long
61	14:40-15:00	On Eavesdropping Region Characterization in Hybrid Wireless Communications	Qianyue Qu, Yuanyu Zhang and Shoji Kasahara	Long
53	15:00-15:20	Private and Fast Routing in Credit Networks	Jianwei Long, Chi Zhang, Chenyu Li, Lingbo Wei, Qibin Sun and Xia Zhang	Long
23	15:20-15:40	CARA-BAN: Clone Attack Resistant Authentication Scheme in Body Area Networks Using Channel Characteristics	Mubarak Umar, Xuening Liao, Bello Ahmad Muhammad and Hafsa Kabir Ahmad	Long
Coffee Break				
2020-12-12 16:00-17:30 He Bian Hall				
Session A2 Chair: Yue Zhao				
64	16:00-16:20	Improve IoT Streaming QoS by Determining the Message Propotion in CoAP	Ru Yang, Sungwon Lee, Junho Seo, Murad Khan and Dongkyun Kim	Long
72	16:20-16:40	Design of A Time Synchronization Mechanism for Underwater Acoustic Networks	Wang Jianping and Cui-ling Jiao	Long
92	16:40-17:00	On CPRI based Front-hauling over Residential Power Lines	Mai Hassan, Syed Hassan Raza Naqvi, and Pin-Han Ho	Long
36	17:00-17:15	Deep Learning as a Service Based on Encrypted Data	Xinhong Hei, Xiaolong Liang, Yichuan Wang, Wenjiang Ji and Lei Zhu	Short
50	17:15-17:30	Traffic Flow Modeling for UAV-Enabled Wireless Networks	Abderrahmane Abada, Bin Yang and Tarik Taleb	Short

Track 2: Wired Networks and Data Center (DC) Networks

2020-12-12 14:00-15:55 He Xun Hall				
Session B1 Chair: Rentao Gu				
ID	Time	Title	Author	Type
18	14:00-14:20	Online Placing and Pricing for Cloud Container Clusters: An Auction Approach	Renli Zhang and Ruiting Zhou	Long
79	14:20-14:40	CPWF: Cross-Platform Website Fingerprinting Based on Multi-Similarity Loss	Shihao Wang, Liangmin Wang, Shangnan Yin, Hui Zhao and Hao	Long
30	14:40-14:55	Differential Privacy Preserving Naive Bayes Classification via Wavelet Transform	Wenru Tang, Yihui Zhou, Mingshuang Li and Laifeng Lu	Short
31	14:55-15:10	K-modes Based Categorical Data Clustering Algorithms Satisfying Differential Privacy	Mingshuang Li, Yihui Zhou, Wenru Tang and Laifeng Lu	Short
34	15:10-15:25	Time Constrained Emergency Data Backup and Service Migration in Cloud Data Centers	Lisheng Ma and Bin Yang	Short
66	15:25-15:40	Intra-Datacenter Bandwidth Resource Allocation for Bursty Large-Scale Traffic in Polled OLT	Guochun Li, Binbin Ye, Rentao Gu, Qize Guo and Zhiqun Gu	Short
81	15:40-15:55	Adaptive Meek Technology for Anti-Traffic Analysis	Haoyao Xie, Liangmin Wang, Shangnan Yin, Hui Zhao and Hao	Short
Coffee Break				
2020-12-12 16:00-17:30 He Xun Hall				
Session B2 Chair: Yang Xu				
ID	Time	Title	Author	Type
26	16:00-16:15	Energy-saving Hybrid Network Integrating WSNs and Crowd Sensing	Xiaoxia Song, Wenmei Nie, Hongying Liu and Yong Li	Short
38	16:15-16:30	Research on SDN Intrusion Detection Based on Online Ensemble Learning Algorithm	Zhang Lin, Du Hongle	Short
39	16:30-16:45	On Security of UAV Integrated System with Network Coding	Yanbo Yang, Jiawei Zhang, Yongxing Du, Liyong Zhou,	Short
40	16:45-17:00	On the Applicability of Users' Operation-action Characteristics for the Continuous Authentication	Guozhu Zhao, Pinchang Zhang and Xiaohong Jiang	Short
41	17:00-17:15	Rational Delegation Learning Outsourcing Scheme Based on Game Theory	Kang Xiang, Youliang Tian, Sheng Gao, Changgen Peng,	Short
77	17:15-17:30	A Dummy-Based Privacy Protection Scheme for Location-Based Services Under Spatiotemporal Correlation	Yiqing Diao, Ayong Ye, Baorong Cheng, Jiamei Zhang and Qiang Zhang	Short

2020-12-13 9:00-10:15 He Bian Hall

Session A3 Chair: Jianping Wang

ID	Time	Title	Author	Type
48	09:00-09:15	Pulse-detecting Approach with Adjustable PRIs Using Interferences Blanking in TACAN System	Di Zhao, Jichao Jiao and Weijie Tan	Short
29	09:15-09:30	Adaptive Beamforming Planning for Multicast mmWave Communication	Limei Peng, Xiaoxiao Liu and Haoran Mei	Short
67	09:30-09:45	Concentration-Shifting-based Modulation Scheme for Molecular Communication System with a Mobile Transmitter	Zhen Jia, Xuening Liao and Xialei Zhang	Short
73	09:45-10:00	Protection Method of Continuous Location Uploading Based on Local Differential Privacy	Xiongjian Wang and Weidong Yang	Short
88	10:00-10:15	On Jamming Power Optimization for Secure and QoS-Aware Routing in Ad Hoc Networks	Yang Xu, Kehan Yang, Yu Wang, Zhao Li, Tao Zhang and Jia Liu	Short

Coffee Break

2020-12-13 10:35-11:50 He Bian Hall

Session A4 Chair: Wu Wang

ID	Time	Title	Author	Type
1	10:35-10:50	A Unified Trust Service Scheme for Heterogeneous Identity Alliance	Guishan Dong, Yuxiang Chen, Yao Hao, Jian Bai, Zhaolei Zhang and Sijie Liao	Short
2	10:50-11:05	Study on Learner's Facial Expression Recognition	Chao Qi and Lei Yang	Short
91	11:05-11:20	Message Delivery Probability of 3D MANETs Under Erasure Coding	Wu Wang, Bin Yang, Shikai Shen, Guoxing Shi, Yuejuan Liu	Short
93	11:20-11:35	A Blockchain Based Model for Curbing Doctors Shopping and Ensuring Provenance Management	Shekha Chenthara, Hua Wang, Khandakar Ahmed, Frank Whittaker and Ke Ji	Short
96	11:35-11:50	Covert Outage Analysis for Random Wireless Networks Under Warden Collusion	Shuangrui Zhao, Jia Liu, Yulong Shen, and Xiaohong Jiang	Short

Track 3: Network Management, Monitoring, and Automation

2020-12-13 09:00-10:20 He Xun Hall				
Session B3 Chair: Wensheng Tian				
ID	Time	Title	Author	Type
37	09:00-09:20	UniRoam: An Anonymous and Accountable Authentication Scheme for Cross-Domain Access	Farooq Ahmed, Xudong Li, Yukun Niu, Chi Zhang, Lingbo Wei, and Chengjie Gu	Long
24	09:20-09:40	B-SDN: A Novel Blockchain-based Software Defined Network Architecture	Wei Tong, Wensheng Tian, Xuwen Dong, Lingxiao Yang, Shiyang Ma and Hua Lu	Long
47	09:40-10:00	Nesterov Accelerated Gradient-based Algorithm for the Allocation Problem of NFV Service	Zhonghui Wu, Xingyan Chen, Chang qiao Xu and Shujie Yang	Long
49	10:00-10:20	Secure Spatial Query Scheme with Access Pattern Obfuscation	Qing Ren, Feng Tian and Laifeng Lu	Long
Coffee Break				
2020-12-13 10:40-12:00 He Xun Hall				
Session B4 Chair: Lisheng Ma				
90	10:40-11:00	Anomaly Detection Frameworks for Outlier and Pattern Anomaly of Time Series in Wireless Sensor Networks	Cong Gao, Yanping Chen, Zhongmin Wang, Hong Xia and Ning Lv	Long
10	11:00-11:15	Security Analysis and Design of Authentication Key Agreement Protocol in Medical Internet of Things	Jiaxing Guo, Siqi Lu, Chunxiang Gu, Xi Chen and Fushan Wei	Short
12	11:15-11:30	VPN Traffic Classification Based on Payload Length Sequence	Ping Gao, Guangsong Li, Yanan Shi, Yang Wang	Short
19	11:30-11:45	Simulated Annealing Algorithm Based Temperature-Aware Routing Scheme for Intrabody Nanonetworks	Shumaila Javaid, Zhenqiang Wu, Hamza Fahim and Farhana Javed	Short
20	11:45-12:00	Evolutionary Dynamics Games Based on Edge Diversity in Complex Networks	Jiawang Chen, Bo Liu, MubarakUmar	Short

2020-12-13 14:00-15:45 He Bian Hall				
Session A5 Chair: Xuening Liao				
ID	Time	Title	Author	Type
32	14:00-14:15	Secure Off-chain Payment in Consortium Blockchain System	Lingxiao Yang, Xuewen Dong, Wei Tong, Shiyang Ma, Hui Qiao and Siyu Xing	Short
35	14:15-14:30	QMPS: Q-learning Based Message Prioritizing and Scheduling Algorithm for Flying Ad hoc Networks	Jun Li and Ming Chen	Short
57	14:30-14:45	Network Flow Analytics: Multi-Class Classification of DDoS Attacks Based on OKNN	Mungwarakarama Irene, Xinhong Hei, Yichuan Wang, Wenjiang Ji and Xinyu Jiang	Short
63	14:45-15:00	An Invocation Chain Test and Evaluation Method Based on Knowledge Graph	Yue Zhao, Yarang Yang, Bo Tian and Tianle Zhang	Short
68	15:00-15:15	Adversarial Examples Detection Using Random Projections of Residuals	Kaijun Wu, Anjie Peng, Yao Hao and Qi Zhao	Short
69	15:15-15:30	Optimal Asynchronous FHMA System with Generalized Orthogonal Hopping Patterns	Bo Tian, Kaijun Wu, Yao Hao, Xue Wang, Hao Zhang and Dongyu Yang	Short
80	15:30-15:45	A Framework for Audit Analysis of Heterogeneous Logs from PaaS	Yanning Du, Yichuan Wang, Lei Zhu, Wenjiang Ji, Xin Song, Yida Yang and Long Pan	Short
Coffee Break				
2020-12-13 16:00-17:30 He Bian Hall				
Session A6 Chair: Cong Gao				
7	16:00-16:15	Emotion-Related Rich-Club Organization in Dynamic Brain Network	Zhongmin Wang and Rui Zhou	Short
8	16:15-16:30	Fault Diagnosis and Location Based on Graph Neural Network in Telecom Networks	Jiajin He and Hui Zhao	Short
11	16:30-16:45	Evaluation of Random Forest for Complex Human Activity Recognition Using Wearable Sensors	Aiguo Wang, Huihui Chen, Chundi Zheng, Liang Zhao, Jinjun Liu, Lulu Wang	Short
13	16:45-17:00	MagNet with Randomization Defense Against Adversarial Examples	Fangwei Wang, Guofang Chai, Qingru Li and Changguang Wang	Short
17	17:00-17:15	An Adaptive Model Update Object Tracking Algorithm based on DenseNet Features	Sugang Ma, Lei Zhang, Lei Pu, Xiaobao Yang and Zhiqiang Hou	Short
89	17:15-17:30	K-Anonymity Based Location Data Query Privacy Protection Method in Mobile Social Networks	Hongtao Li, Linxia Gong, Bo Wang, Feng Guo, Jie Wang and Tao Zhang	Short

2020-12-13 14:00-15:30 He Xun Hall

Session B5 Chair: Jun Liu

ID	Time	Title	Author	Type
14	14:00-14:20	Crowdsourcing Answer Integration Algorithm For Big Data Environment	Hong Xia, Yongkang Zhang, Han Wang, Yanping Chen and Zhongmin Wang	Long
16	14:20-14:40	TMPTCP: A Lightweight Trust Extension for Multipath-TCP	Boyang Wu, Hewu Li, Qian Wu, Zhou Jiang and Jun Liu	Long
56	14:40-15:00	Do Not Perturb Me: A Secure Byzantine-Robust Mechanism for Machine Learning in IoT	Xindi Ma, Junying Zhang, Jianfeng Ma, Qi Jiang, Sheng Gao and Kang Xie	Long
22	15:00-15:15	A Study of Learned KD Tree Based on Learned Index	Yongxin Peng, Wei Zhou, Lin Zhang and Hongle Du	Short
27	15:15-15:30	High Capacity Reversible Data Hiding Algorithm Based on Central Prediction	Fang Ren, Feiyuan Xue and Xuemei Yao	Short

Coffee Break

2020-12-13 16:00-17:30 He Xun Hall

Session B6 Chair: Yanping Chen

59	16:00-16:20	Android Malware Detection Based on Call Graph via Graph Neural Network	Pengbin Feng, Jianfeng Ma, Teng Li, Xindi Ma, Ning Xi and Di Lu	Long
71	16:20-16:40	Efficient Partially Policy-hidden with Multi-authority for Access Control Scheme in Internet of Things	Yan Liu and Ruizhong Du	Long
76	16:40-17:00	JSTIFuzz: Type-Inference-based JavaScript Engine Fuzzing	Yuli Wang, Xiaoqing Gong, Hao Chen, Jing Li, Baoying Liu and Shuai Cao	Long
28	17:00-17:15	Spatial Ciphertext Aggregation Computing Scheme for Mobile Crowd Sensing Privacy Protection	Kun Niu, Changgen Peng, Youliang Tian and Weijie Tan	Short
33	17:15-17:30	Experimental Security Analysis of SDN Network by Using Packet Sniffing and Spoofing Technique on POX and Ryu Controller	Yubaraj Gautam, Kazuhiko Sato and Bishnu Prasad Gautam	Short

Track 4: Network Applications

2020-12-14 9:00-10:30 He Bian Hall				
Session A7 Chair: Kaijun Wu				
ID	Time	Title	Author	Type
43	09:00-09:15	A Conceptual Framework for Top-N Recommendation Using Attributed Bipartite Graph Embedding	Hafsa Kabir Ahmad, Zhenqiang Wu and Bello Ahmad Muhammad	Short
44	09:15-09:30	Predict Onset Age of Hypertension Using CatBoost and Medical Big Data	Huanhuan Zhao, Zuchang Ma and Yining Sun	Short
46	09:30-09:45	Online Teaching Gestures Recognition Model Based on Deep Learning	Yuying Gu, Jingxuan Hu, Yihui Zhou and Laifeng Lu	Short
52	09:45-10:00	Dynamic Action Recognition under Simulated Prosthetic Vision	Ying Zhao, Dantong Xu, Tie Wang and Yanchun Ren	Short
54	10:00-10:15	Body Part Localization and Pose Tracking by Using Deepercut Algorithm for King Cobra's BBL (Biting Behavior Learning)	Bishnu Prasad Gautam, Ramji Gautam, Kazuhiko Sato, Yusuke Noda, Hari Prasad Sharma and Sangam Babu Neupane	Short
62	10:15-10:30	Searchable Encryption Scheme with Limited Search Scope for Group Users	Peng Haiyang, Dong Guishan, Hao Yao, Zhao Yue and Chen Yuxiang	Short
Coffee Break				
2020-12-14 9:00-10:30 He Xun Hall				
Session B7 Chair: Hongtao Li				
70	09:00-09:15	A Study on Exercise Recommendation Method using Knowledge Graph for Computer Network Course	Lei Zhu, Yaolin Liu, Xinhong Hei, Yichuan Wang, Haining Meng, Jiuyuan Jiao and Long Pan	Short
42	09:15-09:30	A Conceptual Framework for Detecting Learning Style in an Online Education Using Graph Representation Learning	Bello Ahmad Muhammad, Zhenqiang Wu and Hafsa Kabir Ahmad	Short
82	09:30-09:45	Design of Educational Resources-oriented Fair Recommendation System Based on Consortium Blockchain	Tingting Zhao, Guo Sun, Xia Feng and Liangmin Wang	Short
83	09:45-10:00	A Fault Diagnosis Model of Pumping Unit Based on BP Neural Network	Liumei Zhang, Qiuyuan Du, Tianshi Liu and Jiao Li	Short
85	10:00-10:15	A PUF-based Scheme for Identify Trusted Mobile Phone Accessories	Liang Li, Zhao Huang, Yin Chen, Maofan Du, Quan Wang and Jinhui Liu	Short
87	10:15-10:30	Resilient Data Retrieval in Vehicular Named Data Networking	Zihan Wu, Shunrong Jiang and Liangmin Wang	Short

Contact Us

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