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# Technical Program

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Digital Technology- Innovation Forum of Integrating Education with Productive Activities	Special Session
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Chair: Chao LI

Tsinghua Univ.

2021-8-18 GMT+8 14:00-14:15 (Beijing time)

2021-8-18 GMT+1 07:00-07:15 (Lancaster, UK time)

Introduction to Digitalization Capability Evaluation System

Wenxing Hong

Xiamen Univ.

2021-8-18 GMT+8 14:15-14:30 (Beijing time)

2021-8-18 GMT+1 07:15-07:30 (Lancaster, UK time)

The Future of AI and Its Impact on Digital Economy

Yonghong Peng

Manchester Metropolitan Univ.

2021-8-18 GMT+8 14:30-14:45 (Beijing time)

2021-8-18 GMT+1 07:30-07:45 (Lancaster, UK time)

Text-based Facial Expression Generation for a Talking Face

Yu Ding

Netease Fuxi AI Lab

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## WeA1

Oral Session

### Educational Technology I

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Chair: Ze Ji

Cardiff Univ.

2021-8-18 GMT+8 15:00-15:15 (Beijing time)

WeA1.1

2021-8-18 GMT+1 8:00-8:15 (Lancaster, UK time)

[Study on the Learners' Performance Evaluation in Online Teaching with Personal Response Systems](#), pp. 3-7.

Hongjiang Wang

South China Normal Univ.

Zuokun Li

South China Normal Univ.

Xiabin Luo

South China Normal Univ.

2021-8-18 GMT+8 15:15-15:30 (Beijing time)

WeA1.2

2021-8-18 GMT+1 8:15-8:30 (Lancaster, UK time)

[Designed Soundscapes as Creative Stimuli: Influence on Perceptions of Learning Affect and Creative Expression in a Design and Media Course during](#)

[COVID-19](#), pp. 8-12.

Shih Leng, Kong

Nanyang Academy of Fine Arts Singapore

Joyce Hwee Ling, Koh

Univ. of Otago

2021-8-18 GMT+8 15:30-15:45 (Beijing time)

WeA1.3

2021-8-18 GMT+1 8:30-8:45 (Lancaster, UK time)

*Training Methods of Computational Thinking for Medical Students in Big Data Age*, pp. 13-20.

Jiarui Si	Tianjin Medical Univ.
Huan Feng	Tianjin Medical Univ.
Zikun Niu	Xi'an Jiaotong Univ.
Yizhou Bian	Tianjin Medical Univ.
Yu Fu	Shenyang pharmaceutical Univ.
Hong Guo	Tianjin Medical Univ.
Zhenxing Su	Tianjin Medical Univ.
Weimin Deng	Tianjin Medical Univ.
Xiaoxia Li	Tianjin Medical Univ.

2021-8-18 GMT+8 15:45-16:00 (Beijing time)

WeA1.4

2021-8-18 GMT+1 8:45-9:00 (Lancaster, UK time)

*Students as Co-Constructors in A Computer Core Curriculum*, pp. 21-25.

Lida Huang	Hunan Univ.
Huan Zhao	Hunan Univ.
Kehua Yang	Hunan Univ.
Yan Liu	Hunan Univ.
Jingke She	Hunan Univ.
Xiongren Xiao	Hunan Univ.
Guoqi Xie	Hunan Univ.
Wendan Yuan	Hunan Univ.

2021-8-18 GMT+8 16:00-16:15 (Beijing time)

WeA1.5

2021-8-18 GMT+1 9:00-9:15 (Lancaster, UK time)

*Research on the Relationship between Physical Fitness Condition and Academic Performance of College Students*, pp. 26-30.

Fangyu Qu	Nankai Univ.
Hong Zhao	Nankai Univ.
Mingxiao Lu	Nankai Univ.
Xiangdong Yang	Nankai Univ.
Xiuli Zhang	Nankai Univ.

2021-8-18 GMT+8 16:15-16:30 (Beijing time)

WeA1.6

2021-8-18 GMT+1 9:15-9:30 (Lancaster, UK time)

*Research on the Implementation of Teachers' Information Technology Literacy Training from the Perspective of Action Learning*, pp. 31-36.

Wanze Zhang	Beijing Normal Univ.
Kefeng Yang	Beijing Normal Univ.
Yuhang Wu	Beijing Normal Univ.

2021-8-18 GMT+8 16:30-16:45 (Beijing time)

WeA1.7

2021-8-18 GMT+1 9:30-9:45 (Lancaster, UK time)

[Research on the Relationship Between Undergraduate Learning and Employment](#), pp. 37-41.

Shaojie Qu	Beijing Inst. of Tech.
Huidong Qin	Peking Univ.
Jiaqi Yue	Beijing Inst. of Tech.
Fangyao Xu	Beijing Inst. of Tech.
Yi Yang	Beijing Inst. of Tech.

2021-8-18 GMT+8 16:45-17:00 (Beijing time)

WeA1.8

2021-8-18 GMT+1 9:45-10:00 (Lancaster, UK time)

[Tools for Distance Education in Hong Kong Kindergartens During Unexpected School Closures](#), pp. 42-47.

Anika Saxena	The Education Univ. of Hong Kong
Komal Prasad	The Univ. of Hong Kong

2021-8-18 GMT+8 17:00-17:15 (Beijing time)

WeA1.9

2021-8-18 GMT+1 10:00-10:15 (Lancaster, UK time)

[Graph-based Massive Open Online Course \(MOOC\) Dropout Prediction using Clickstream Data in Virtual Learning Environment](#), pp. 48-52.

Izumi Nitta	Fujitsu Limited
Ryo Ishizaki	Fujitsu Limited
Masafumi Shingu	Fujitsu Limited
Satoshi Nakashima	Fujitsu Limited
Koji Maruhashi	Fujitsu Limited
Arseny Tolmachev	Fujitsu Limited
Masaru Todoriki	Univ. of Tokyo

## WeB1

Oral Session

### Online learning

Chair: Li Chao	Tsinghua Univ.
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2021-8-18 GMT+8 15:00-15:15 (Beijing time)

WeB1.1

2021-8-18 GMT+1 8:00-8:15 (Lancaster, UK time)

[The impact of Video Game Addiction on Students' Performance During COVID-19 Pandemic](#), pp. 55-60.

Mahmoud Abou Naaj	Ajman Univ.
Mirna Nachouki	Ajman Univ.
Saeed Lezzar	Ajman Univ.

2021-8-18 GMT+8 15:15-15:30 (Beijing time)

WeB1.2

2021-8-18 GMT+1 8:15-8:30 (Lancaster, UK time)

[The Influence of Online learning Self-efficacy on Learning Engagement among Middle School Students: The Mediating Role of Learning Motivation](#), pp. 61-65.

Tuoxin Zhang	Jiangxi Univ. of Chinese Medicine
Fei Li	Jiangxi Univ. of Chinese Medicine

2021-8-18 GMT+8 15:30-15:45 (Beijing time)

WeB1.3

2021-8-18 GMT+1 8:30-8:45 (Lancaster, UK time)

*SPCR: Course Resource Service Platform for Computer Supported Teaching and Online Learning*, pp. 66-71.

Yujie Zhang

Beijing Univ. of Posts & Telecommunications

Xiangwu Meng

Beijing Univ. of Posts & Telecommunications

2021-8-18 GMT+8 15:45-16:00 (Beijing time)

WeB1.4

2021-8-18 GMT+1 8:45-9:00 (Lancaster, UK time)

*Application of Gamification Teaching in Primary School Fire Safety Course in Smart Learning Environment*, pp. 72-75.

Jie Jiang

JiangXi Sci. & Tech. Normal Univ.

Shanshan Hu

JiangXi Sci. & Tech. Normal Univ.

2021-8-18 GMT+8 16:00-16:15 (Beijing time)

WeB1.5

2021-8-18 GMT+1 9:00-9:15 (Lancaster, UK time)

*What Students Can Tell Us: Using Argumentation and Debate in e-learning times?*, pp. 76-80.

Maria A. M. Trindade

Católica Porto Business School

Universidade Católica Portuguesa

University of Porto

2021-8-18 GMT+8 16:15-16:30 (Beijing time)

WeB1.6

2021-8-18 GMT+1 9:15-9:30 (Lancaster, UK time)

*Research on Interactive Model for Online Learning of HSK Tutoring Course*, pp. 81-85.

Ruo Lin

Beijing Language & Culture Univ.

Juan Xu

Beijing Language & Culture Univ.

2021-8-18 GMT+8 16:30-16:45 (Beijing time)

WeB1.7

2021-8-18 GMT+1 9:30-9:45 (Lancaster, UK time)

*A Web-based Visual Learning Platform For Data Structure Course*, pp. 86-91.

Yu Sheng

Central South Univ.

Huirong Hu

Central South Univ.

Xiaohang Cheng

Central South Univ.

Guihua Duan

Central South Univ.

2021-8-18 GMT+8 16:45-17:00 (Beijing time)

WeB1.8

2021-8-18 GMT+1 9:45-10:00 (Lancaster, UK time)

*Research on Online Learning Behavior in China: Stages, Models and Hotspots*, pp. 92-97.

Lei Gao

Beijing Normal Univ.

2021-8-18 GMT+8 17:00-17:15 (Beijing time)

WeB1.9

2021-8-18 GMT+1 10:00-10:15 (Lancaster, UK time)

*YAPS - Your Open Examination System for Activating and emPowering Students*, pp. 98-103.

Fin Hendrik Bahnsen

Hamburg Univ. of Tech.

Goerschwin Fey

Hamburg Univ. of Tech.

<b>WeC1</b>	Oral Session
<b>Digital Society and Data science</b>	
Chair: Hiroki Takada	Univ. of Fukui
2021-8-18 GMT+8 15:00-15:15 (Beijing time)	WeC1.1
2021-8-18 GMT+1 8:00-8:15 (Lancaster, UK time)	
<i>The Effects of Users' Psychological Diversity on Avatars' Behaviour in the Virtual World</i> , pp. 107-110.	
Yungang Wei	Beijing Normal Univ.
Junfeng Kang	Beijing Normal Univ.
Siyu Dai	Beijing Normal Univ.
Yuting Wang	Beijing Normal Univ.
2021-8-18 GMT+8 15:15-15:30 (Beijing time)	WeC1.2
2021-8-18 GMT+1 8:15-8:30 (Lancaster, UK time)	
<i>Clustering Analysis of Learners' Watching Sequences on MOOC Videos</i> , pp. 111-116.	
Peijie Liao	Huazhong Univ. of Sci. & Tech.
Jing Xu	Huazhong Univ. of Sci. & Tech.
Shimin Gong	Sun Yat-sen Univ.
Wei Liu	Huazhong Univ. of Sci. & Tech.
Yingying Yi	The Chinese Univ. of Hong Kong
2021-8-18 GMT+8 15:30-15:45 (Beijing time)	WeC1.3
2021-8-18 GMT+1 8:30-8:45 (Lancaster, UK time)	
<i>Identification of Public Opinion on COVID-19 in Microblogs</i> , pp. 117-120.	
Ji Li	Guangdong Univ. of Foreign Studies
Xueyan Tang	Guangdong Univ. of Foreign Studies
Daoli Dong	Guangdong itouchtv Media Tech. Co., Ltd.
2021-8-18 GMT+8 15:45-16:00 (Beijing time)	WeC1.4
2021-8-18 GMT+1 8:45-9:00 (Lancaster, UK time)	
<i>Effect Analysis of TikTok Gourmet Bloggers' Videos for Social Media Marketing</i> , pp. 121-124.	
Ji Li	Guangdong Univ. of Foreign Studies
Wenli Zhao	Guangdong Univ. of Foreign Studies
2021-8-18 GMT+8 16:00-16:15 (Beijing time)	WeC1.5
2021-8-18 GMT+1 9:00-9:15 (Lancaster, UK time)	
<i>A survey on Blockchain Application: a Data Collaboration Perspective</i> , pp. 125-132.	
Wenxing Hong	Xiamen Univ.
Jinjie You	Xiamen Univ.
Hejia Zhang	Xiamen Univ.

2021-8-18 GMT+8 16:15-16:30 (Beijing time) WeC1.6  
2021-8-18 GMT+1 9:15-9:30 (Lancaster, UK time)  
[Research on Vehicle Lane Change Recognition Based on ABC-SVM Algorithm](#), pp. 133-137.  
Xu Li Shandong Univ. of Sci. & Tech.  
Ning Xie Shandong Univ. of Sci. & Tech.

2021-8-18 GMT+8 16:30-16:45 (Beijing time) WeC1.7  
2021-8-18 GMT+1 9:30-9:45 (Lancaster, UK time)  
[Towards Identifying and Linking Data Silos along the Software Life Cycle](#), pp. 138-143.  
Benedikt Martens FAUniversitat Erlangen-Nürnberg, Siemens AG  
Pál Petho Evosoft GmbH  
Timo Holm Siemens AG  
Jorg Franke FAU Erlangen-Nürnberg

2021-8-18 GMT+8 16:45-17:00 (Beijing time) WeC1.8  
2021-8-18 GMT+1 9:45-10:00 (Lancaster, UK time)  
[VR Live Motion Capture](#), pp. 144-149.  
Carsten Lecon Univ. of Applied Sciences Aalen  
Benjamin Engel Univ. of Applied Sciences Aalen  
Lukas Schneider Univ. of Applied Sciences Aalen

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**ThA1** Oral Session  
**Invited Session : Digital Society and Digital Transformation**

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Chair: Binyue Cui Hebei Univ. of Economics & Business

2021-8-19 GMT+8 8:30-8:45 (Beijing time) ThA1.1  
2021-8-19 GMT+1 1:30-1:45 (Lancaster, UK time)  
[Response and Evaluation of Vehicle AR-HUD Assistant System to Risk Cognition](#), pp. 153-157.  
Zhuo Li Wuhan Univ. of Tech.  
Yibiao Ma Wuhan Univ. of Tech.

2021-8-19 GMT+8 8:45-9:00 (Beijing time) ThA1.2  
2021-8-19 GMT+1 1:45-2:00 (Lancaster, UK time)  
[Research on Prediction and Source Analysis of Ozone Pollution](#), pp. 158-163.  
Penglong Song Beijing Jiaotong Univ.  
Wei Zhou Beijing Jiaotong Univ.  
Fangbing Jiang Beijing Jiaotong Univ.  
Xiaoyu Chen Beijing Jiaotong Univ.

2021-8-19 GMT+8 9:00-9:15 (Beijing time) ThA1.3  
2021-8-19 GMT+1 2:00-2:15 (Lancaster, UK time) [Digitalization](#)  
[Capability Evaluation System and Practice](#), pp. 164-167.



Binyue Cui Hebei Univ. of Economics & Business  
Wenxing Hong Xiamen Univ.  
Jiacheng Zhu Xiamen Huaxia Univ.  
Xiaolin Wu Xiamen Univ.

2021-8-19 GMT+8 9:15-9:30 (Beijing time) ThA1.4

2021-8-19 GMT+1 2:15-2:30 (Lancaster, UK time)

*Economical and Wearable Pulse Oximeter using IoT*, pp. 168-171.

Rupali Shinde Chungbuk National Univ.  
Md. Shahinur Alam Chungbuk National Univ.  
Min Choi Chungbuk National Univ.  
Nam Kim Chungbuk National Univ.

2021-8-19 GMT+8 9:30-9:45 (Beijing time) ThA1.5

2021-8-19 GMT+1 2:30-2:45 (Lancaster, UK time)

*Research Overview on Carbon Emission Models*, pp. 172-176.

Xudong Li Beijing Jiaotong Univ.  
Wei Zhou Beijing Jiaotong Univ.  
Zixuan Liu Beijing Jiaotong Univ.  
Haowei Li Beijing Jiaotong Univ.  
Jing Lu Beijing Jiaotong Univ.

2021-8-19 GMT+8 9:45-10:00 (Beijing time) ThA1.6

2021-8-19 GMT+1 2:45-3:00 (Lancaster, UK time)

*The Influence of Emotional Psychology on Museum with Interactive Design*, pp. 177-182.

Chenlu Tian Wuhan Univ. of Tech.  
Wenfei Xiong Wuhan Univ. of Tech.  
Yanting Tong Wuhan Univ. of Tech.

2021-8-19 GMT+8 10:00-10:15 (Beijing time) ThA1.7

2021-8-19 GMT+1 3:00-3:15 (Lancaster, UK time)

*CAE: A Framework of Computer-Aided Talent Evaluation*, pp. 183-187.

Wenxing Hong Xiamen Univ.  
Xiaolin Wu Xiamen Univ.  
Binyue Cui Hebei Univ. of Economics & Business  
Jiacheng Zhu Xiamen Huaxia Univ.  
Yuwen Chen Xiamen Univ.

2021-8-19 GMT+8 10:15-10:30 (Beijing time) ThA1.8

2021-8-19 GMT+1 3:15-3:30 (Lancaster, UK time)

*Color Correction by QAB (Quantum Particle Swarm Optimization-Ant Colony Optimization- Back Propagation) method*, pp. 188-193.

Sumaiya KUET

<b>ThB1</b>	Oral Session
<b>Invited Session : Intelligent Maintenance for Industrial Automation Systems</b>	

Chair: Haidong Shao

Hunan Univ.

2021-8-19 GMT+8 8:30-8:45 (Beijing time)

ThB1.1

2021-8-19 GMT+1 1:30-1:45 (Lancaster, UK time)

*Construction of Equipment Management System Based on AI and IoT*, pp. 197-201.

Chenjie Zhu

Zhejiang Univ. of Sci. &amp; Tech.

Gang Cen

Zhejiang Univ. of Sci. &amp; Tech.

Lingchao Wang

Zhejiang Univ. of Sci. &amp; Tech.

Zeyi Yu

Zhejiang Univ. of Sci. &amp; Tech.

Linhao Zhao

Zhejiang Univ. of Sci. &amp; Tech.

Jiajie Wang

Zhejiang Univ. of Sci. &amp; Tech.

2021-8-19 GMT+8 8:45-9:00 (Beijing time)

ThB1.2

2021-8-19 GMT+1 1:45-2:00 (Lancaster, UK time)

*Research and Design of Online Market System Based on Cloud Platform*, pp. 202-206.

Xuanyu Lin

Zhejiang Univ. of Sci. &amp; Tech.

Sifang Wu

Zhejiang Univ. of Sci. &amp; Tech.

Lingchao Wang

Zhejiang Univ. of Sci. &amp; Tech.

Yuefeng Cen

Zhejiang Univ. of Sci. &amp; Tech.

Xi Xu

Anhui Univ.

Gang Cen

Zhejiang Univ. of Sci. &amp; Tech.

2021-8-19 GMT+8 9:00-9:15 (Beijing time)

ThB1.3

2021-8-19 GMT+1 2:00-2:15 (Lancaster, UK time)

*Research on Application of Construction Art in New Media Stage Design*, pp. 207-209.

Lin Liu

Hubei Univ. of Tech.

Jinlong Yu

Hubei Univ. of Tech.

2021-8-19 GMT+8 9:15-9:30 (Beijing time)

ThB1.4

2021-8-19 GMT+1 2:15-2:30 (Lancaster, UK time)

*Research on Knowledge Map Completion with Entity Description Information Based on Neural Network*, pp. 210-215.

Guoyan Xu

Hohai Univ.

Jie Sun

Hohai Univ.

Yuwei Lu

Hohai Univ.

Du Yu

Hohai Univ.

2021-8-19 GMT+8 9:30-9:45 (Beijing time)

ThB1.5

2021-8-19 GMT+1 2:30-2:45 (Lancaster, UK time)

[Unsupervised Domain-shared Convolutional Neural Network for Bearing Fault Transfer Diagnosis](#), pp. 216-221.

Hongru Cao	Hunan Univ.
Haidong Shao	Hunan Univ.
Min Xia	Northwestern Polytechnical Univ.
Wenlong Luo	Hunan Univ.
Feng Zhu	Hunan Univ.
Dehua Su	Hunan Univ.

2021-8-19 GMT+8 9:45-10:00 (Beijing time)

ThB1.6

2021-8-19 GMT+1 2:45-3:00 (Lancaster, UK time)

[Rotating Machinery Fault Classification using IWGAN-GP and Small Gray Images](#), pp. 222-227.

Haidong Shao	Hunan Univ.
Wei Li	Hunan Univ.
Min Xia	Northwestern Polytechnical Univ.
Chengxu Wang	Hunan Univ.
Qinglin Guan	Hunan Univ.
Tian'ao Xu	Hunan Univ.

2021-8-19 GMT+8 10:00-10:15 (Beijing time)

ThB1.7

2021-8-19 GMT+1 3:00-3:15 (Lancaster, UK time)

[Detecting Sensitive Information from Images of Vehicle Fire Scene using AI Technology](#), pp. 228-232.

Haoran Zhang	Nankai Univ.
Ke Chen	Tianjin Fire Research Inst. of MEM
Longfei Xu	Tianjin Fire Research Inst. of MEM
Yun Guo	Nankai Univ.
Hong Zhao	Nankai Univ.

2021-8-19 GMT+8 10:15-10:30 (Beijing time)

ThB1.8

2021-8-19 GMT+1 3:15-3:30 (Lancaster, UK time)

[The Requirements of Materials Information in Product Design: A Review](#), pp. 233-237.

Meng Zhang	Wuhan Univ. of Tech.
Xiaofang Yuan	Wuhan Univ. of Tech.

## ThC1

Oral Session

### Invited Session : Legal Intelligence and Judicial Big Data

Chair: Weng Yang	Sichuan Univ.
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2021-8-19 GMT+8 8:30-8:45 (Beijing time)

ThC1.1

2021-8-19 GMT+1 1:30-1:45 (Lancaster, UK time)

[Improving Equity and Access to Higher Education Using Artificial Intelligence](#), pp. 241-246.

Saoussen Cheddadi	Limitless Learning
Mourad Bouache	Algeria-AI.

2021-8-19 GMT+8 8:45-9:00 (Beijing time) ThC1.2

2021-8-19 GMT+1 1:45-2:00 (Lancaster, UK time)

*Team Formation using Character-based Gamification: Effects on Online Teamwork Experience During COVID-19*, pp. 247-252.

Siok Ee Pek

Nanyang Academy of Fine Arts

Joyce Hwee Ling Koh

Univ. of Otago

2021-8-19 GMT+8 9:00-9:15 (Beijing time) ThC1.3

2021-8-19 GMT+1 2:00-2:15 (Lancaster, UK time)

*Re-Engineering Higher Education by Models Suitable for COVID-19 and Students with Disabilities*, pp. 253-256.

Namdar Saniei

Ontario Tech Univ.

2021-8-19 GMT+8 9:15-9:30 (Beijing time) ThC1.4

2021-8-19 GMT+1 2:15-2:30 (Lancaster, UK time)

*Innovative Research on Legal Talents Training Model in the Era of Artificial Intelligence*, pp. 257-262.

Wei Liu

Guangdong Univ. of Finance & Economics

Fengru Zhu

Guangdong Univ. of Finance & Economics

2021-8-19 GMT+8 9:30-9:45 (Beijing time) ThC1.5

2021-8-19 GMT+1 2:30-2:45 (Lancaster, UK time)

*Cloud Security Audit – Issues and Challenges*, pp. 263-266.

Livia Maria Bruma

The Bucharest Univ. of Economic Studies

2021-8-19 GMT+8 9:45-10:00 (Beijing time) ThC1.6

2021-8-19 GMT+1 2:45-3:00 (Lancaster, UK time)

*Optimised Privacy Model for Cloud Data*, pp. 267-269.

Henry Chima Ukwuoma

Federal Univ. of Tech. Akure, Nigeria

Arome Gabriel Junior

Federal Univ. of Tech. Akure, Nigeria

Aderonke Thompson

Federal Univ. of Tech. Akure, Ondo State, Nigeria

Boniface Kayode Alese

Federal Univ. of Tech. Akure, Nigeria

2021-8-19 GMT+8 10:00-10:15 (Beijing time) ThC1.7

2021-8-19 GMT+1 3:00-3:15 (Lancaster, UK time)

*Fairness of Case Retrieval for Chinese Judicial System*, pp. 270-273.

Hongyan Wu

Sichuan Univ.

Di Xiang

Sichuan Univ.

Xin Li

Sichuan Univ.

2021-8-19 GMT+8 10:15-10:30 (Beijing time) ThC1.8

2021-8-19 GMT+1 3:15-3:30 (Lancaster, UK time)

*Investigating Suspected Professional Lenders Features Based on Large Scale Judgment Texts of China*, pp. 274-278.

Songyuan Gu	Sichuan Univ.
Ting Huang	Sichuan Univ.
Xiaohan Huang	Sichuan Univ.
Ruikun Wang	Sichuan Univ.
Xin Li	Sichuan Univ.

<b>ThA2</b>	Oral Session
<b>Educational Technology II</b>	

Chair: Li Fengxia Beijing Inst. of Tech.

2021-8-19 GMT+8 10:30-10:45 (Beijing time) ThA2.1

2021-8-19 GMT+1 3:30-3:45 (Lancaster, UK time)

[Exploration and Practice on the Construction of Computer First-class Major](#), pp. 281-285.

Wei Li	Xi'an Univ. of Tech.
Xinhong Hei	Shaanxi Key Laboratory for Network Computing & Security Tech.
Lei Wang	Xi'an Univ. of Tech.
Xiaofan Wang	Xi'an Univ. of Tech.

2021-8-19 GMT+8 10:45-11:00 (Beijing time) ThA2.2

2021-8-19 GMT+1 3:45-4:00 (Lancaster, UK time)

[Construction and Practice of Curriculum Pre-Warning Model based on Data Analysis](#), pp. 286-291.

Dongmei Wei	Xihua Univ.
Shifen Zhong	Xihua Univ.
Zhongxiu He	Xihua Univ.
Jianmei Tang	Xihua Univ.

2021-8-19 GMT+8 11:00-11:15 (Beijing time) ThA2.3

2021-8-19 GMT+1 4:00-4:15 (Lancaster, UK time)

[Study on the Application of Learner's Output-oriented Feynman-Five-Energy Method in Computer Teaching](#), pp. 292-295.

Huamei Qi	Central South Univ.
Xiaoyan Kui	Central South Univ.
Ping Zhong	Central South Univ.
Shiming Xiong	Central South Univ.

2021-8-19 GMT+8 11:15-11:30 (Beijing time) ThA2.4

2021-8-19 GMT+1 4:15-4:30 (Lancaster, UK time)

[A Theoretical Research on the Design of Educational Games Based on Unity in Junior High School Biology Teaching](#), pp. 296-300.

Yang Kuang	JiangXi Sci. & Tech. Normal Univ.
Ran Zhang	JiangXi Sci. & Tech. Normal Univ.

2021-8-19 GMT+8 11:30-11:45 (Beijing time) ThA2.5

2021-8-19 GMT+1 4:30-4:45 (Lancaster, UK time)

*Active Learning Strategies: A Computing Course for Undergraduates*, pp. 301-306.

Zhuojun Duan

James Madison Univ.

Ingrid Russell

Univ. of Hartford

Andrew Jung

Univ. of Hartford

2021-8-19 GMT+8 11:45-12:00 (Beijing time)

ThA2.6

2021-8-19 GMT+1 4:45-5:00 (Lancaster, UK time)

*Research and Practice of Node.js Teaching Reform Based on CDIO*, pp. 307-310.

Lijun Kou

Dalian Neusoft Univ. of Information

2021-8-19 GMT+8 12:00-12:15 (Beijing time)

ThA2.7

2021-8-19 GMT+1 5:00-5:15 (Lancaster, UK time)

*Instructional Design of Computer System Fundamentals for Cultivating Students' Computer System Ability*, pp. 311-316.

Xing Liu

Wuhan Univ. of Tech.

Jingbing Tian

Wuhan Univ. of Tech.

Yaxin Li

Wuhan Univ. of Tech.

Shengwu Xiong

Wuhan Univ. of Tech.

Wenbi Rao

Wuhan Univ. of Tech.

Jingling Yuan

Wuhan Univ. of Tech.

2021-8-19 GMT+8 12:15-12:30 (Beijing time)

ThA2.8

2021-8-19 GMT+1 5:15-5:30 (Lancaster, UK time)

*Teaching Path to Improve the Practical Ability of Postgraduates Majored in Data Engineering in Minority Nationality Regions*, pp. 317-321.

Zhiwei Xu

Inner Mongolia Univ. of Tech.

Limin Liu

Inner Mongolia Univ. of Tech.

Wenjing Liu

Inner Mongolia Univ. of Tech.

Yujun Zhang

Univ. of Chinese Academy of Sciences

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## ThB2

Oral Session

### Computer Science

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Chair: Wang Qing

Tianjin Univ.

2021-8-19 GMT+8 10:30-10:45 (Beijing time)

ThB2.1

2021-8-19 GMT+1 3:30-3:45 (Lancaster, UK time)

*Research on Automatic Key Decision Method Based on Database Operation Scenario Analysis*, pp. 325-328.

Ping Zong

Nanjing Univ. of Sci. & Tech. Zijin College Nanjing Univ. of Posts & Telecommunications

Jun Qin

Communication Univ. of China, Nanjing Nanjing Univ. of Posts & Telecommunications

2021-8-19 GMT+8 10:45-11:00 (Beijing time)

ThB2.2

2021-8-19 GMT+1 3:45-4:00 (Lancaster, UK time)

*Research on The secure Transmission Method of Cloud Computing Data*, pp. 329-332.

Zhong Zong

Ping An International Smart City Tech. Co.,Ltd.

2021-8-19 GMT+8 11:00-11:15 (Beijing time)

ThB2.3

2021-8-19 GMT+1 4:00-4:15 (Lancaster, UK time)

*Reallmage2Mesh: Reconstructing Symmetrical Mesh Models from Single Real-World Images*, pp. 333-338.

Ying Li

Beijing Inst. of Tech.

Yue Yu

Beijing Inst. of Tech.

Bowen Li

Beijing Inst. of Tech.

Yue Yang

Beijing Inst. of Tech.

2021-8-19 GMT+8 11:15-11:30 (Beijing time)

ThB2.4

2021-8-19 GMT+1 4:15-4:30 (Lancaster, UK time)

*Research on Personalized Learning Path Management Based on Blockchain Technology*, pp. 339-344.

Changhua Zhao

Huaihua Univ.

Chunqiao Mi

Huaihua Univ.

2021-8-19 GMT+8 11:30-11:45 (Beijing time)

ThB2.5

2021-8-19 GMT+1 4:30-4:45 (Lancaster, UK time)

*An SLFN Model with R-ELM for Stock Price Forecasting*, N/A.

Yuyang Zhu

Lishui Univ.

Linxian Zhi

Lishui Univ.

Weiduo Zhang

Zhejiang Rural Credit Union

2021-8-19 GMT+8 11:45-12:00 (Beijing time)

ThB2.6

2021-8-19 GMT+1 4:45-5:00 (Lancaster, UK time)

*Histogram Publishing Method based on Geometric Mechanism*, pp. 356-359.

Tao Tao

Anhui Univ. of Tech.

Laibing Chen

Anhui Univ. of Tech.

Xianghua Bao

Ma'anshan Public Security Bureau

Aiguo Wang

Anhui Univ. of Tech.

Kewu Zhou

Ma'anshan Public Security Bureau

2021-8-19 GMT+8 12:00-12:15 (Beijing time)

ThB2.7

2021-8-19 GMT+1 5:00-5:15 (Lancaster, UK time)

*Research on Defect Location Method of C Language Code Based on Deep Learning*, pp. 360-365.

Yaling Zhang

Xi'an Univ. of Tech.

Jie Zhou

Xi'an Univ. of Tech.

Jing Hu

Xi'an Univ. of Tech.

2021-8-19 GMT+8 12:15-12:30 (Beijing time)

ThB2.8

2021-8-19 GMT+1 5:15-5:30 (Lancaster, UK time)

*Design of a Performance Prediction System for a Distributed Computer Environment and its Adaptation on the Cloud Computing*, pp. 366-371.

Sena Seneviratne	Sydney Univ.
Liyanage C De Silva	Universiti Brunei Darussalam
Jie Hu	Zhejiang Univ.
Wenxing Hong	Xiamen Univ.
Judith Beveridge	Sydney Univ.
David Levy	Sydney Univ.

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<b>ThA3</b>	Oral Session
<b>Educational Technology III</b>	

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Chair: Li Zheng Tsinghua Univ.

2021-8-19 GMT+8 14:00-14:15 (Beijing time) ThA3.1

2021-8-19 GMT+1 7:00-7:15 (Lancaster, UK time)

*Research on the Fragmented Learning of "Java Language Programming" in the Internet + Era*, pp. 375-378.

Yandong Wen Dalian Neusoft Univ. of Information

2021-8-19 GMT+8 14:15-14:30 (Beijing time) ThA3.2

2021-8-19 GMT+1 7:15-7:30 (Lancaster, UK time)

*Task-oriented Analysis on Debugging Process Based on Eye Movements and IDE Interactions*, pp. 379-384.

Xinyu Li	Huazhong Univ. of Sci. & Tech.
Wei Liu	Huazhong Univ. of Sci. & Tech.
Huitong Liu	Huazhong Univ. of Sci. & Tech.
Jing Xu	Huazhong Univ. of Sci. & Tech.
Wenqing Cheng	Huazhong Univ. of Sci. & Tech.

2021-8-19 GMT+8 14:30-14:45 (Beijing time) ThA3.3

2021-8-19 GMT+1 7:30-7:45 (Lancaster, UK time)

*Introductory Programming Courses: Teachers Conceptions about the Object to be Taught*, pp. 385-390.

Ana Maria Piccin	Universidad de Belgrano
Graciela Dora Susana Hadad	Universidad Nacional del Oeste

2021-8-19 GMT+8 14:45-15:00 (Beijing time) ThA3.4

2021-8-19 GMT+1 7:45-8:00 (Lancaster, UK time)

*Using Examples as Guideposts for Programming Exercises: Providing Support while Preserving the Challenge*, pp. 391-397.

Iris Gaber	Academic College of Tel-Aviv Yaffo (MTA)
Amir Kirsh	Academic College of Tel-Aviv Yaffo (MTA)

2021-8-19 GMT+8 15:00-15:15 (Beijing time) ThA3.5

2021-8-19 GMT+1 8:00-8:15 (Lancaster, UK time)

*Reform of the Multi-platform Blended Teaching Model of Python Programming Based on BOPPPS*, pp. 398-401.

Min Li Nankai Univ.



Yun Guo	Nankai Univ.
Hong Zhao	Nankai Univ.
Kai Wang	Nankai Univ.
Mingxiao Lu	Nankai Univ.

2021-8-19 GMT+8 15:15-15:30 (Beijing time) ThA3.6

2021-8-19 GMT+1 8:15-8:30 (Lancaster, UK time)

*Diversified Teaching Evaluation of Python Programming Based on OBE Concept*, pp. 402-406.

Pingzhang Gou	Northwest Normal Univ.
Yuyue Han	Northwest Normal Univ.
Wenxuan Zhang	Northwest Normal Univ.

2021-8-19 GMT+8 15:30-15:45 (Beijing time) ThA3.7

2021-8-19 GMT+1 8:30-8:45 (Lancaster, UK time)

*Trends Of Commonly Used Programming Languages in CS1 And CS2 Learning*, pp. 407-412.

Robert M. Siegfried	Adelphi Univ.
Katherine G. Herbert-Berger	Montclair State Univ.
Kees Leune	Adelphi Univ.
Jason P. Siegfried	Adelphi Univ.

2021-8-19 GMT+8 15:45-16:00 (Beijing time) ThA3.8

2021-8-19 GMT+1 8:45-9:00 (Lancaster, UK time)

*Practice Research of the Training Mode of Students' Innovative and Entrepreneurial Talents Based on Computer Courses*, pp. 413-418.

Yi Zhou	Changshu Inst. of Tech.
Zhe Yu	Changshu Inst. of Technology Harbin branch of United Network Telecommunications Corporation
Kangbo Yu	Central China Univ.
He Wang	Changshu Inst. of Tech.
Lingling Chen	Changshu Inst. of Tech.

<b>ThB3</b>	Oral Session
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<b>Educational Technology VI</b>
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Chair: Hu Jie	Zhejiang Univ.
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2021-8-19 GMT+8 14:00-14:15 (Beijing time) ThB3.1

2021-8-19 GMT+1 7:00-7:15 (Lancaster, UK time)

*A Computer Game to Teach Finite-State Machine Artificial Intelligence to First-Year Undergraduates*, pp. 421-426.

Robert Collier	Carleton Univ.
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2021-8-19 GMT+8 14:15-14:30 (Beijing time) ThB3.2

2021-8-19 GMT+1 7:15-7:30 (Lancaster, UK time)

*Research on Teaching of Ideological and Political Education in Computer Foundation Based on Computational Thinking*, pp. 427-430.

Pingzhang Gou  
Wenxuan Zhang  
Yuyue Han

Northwest Normal Univ.  
Northwest Normal Univ.  
Northwest Normal Univ.

2021-8-19 GMT+8 14:30-14:45 (Beijing time)

ThB3.3

2021-8-19 GMT+1 7:30-7:45 (Lancaster, UK time)

*The Influence of ICT-based Social Media on Asian Students' Collaborative Problem-solving Performance*, pp. 431-435.

Meishu Wang  
Jie Hu

Zhejiang Univ.  
Zhejiang Univ.

2021-8-19 GMT+8 14:45-15:00 (Beijing time)

ThB3.4

2021-8-19 GMT+1 7:45-8:00 (Lancaster, UK time)

*Design of Chinese Vocabulary Smart Learning System*, pp. 436-440.

Miao Yu  
Juan Xu

Beijing Language & Culture Univ.  
Beijing Language & Culture Univ.

2021-8-19 GMT+8 15:00-15:15 (Beijing time)

ThB3.5

2021-8-19 GMT+1 8:00-8:15 (Lancaster, UK time)

*An Auxiliary Training Method for Single-player Badminton*, pp. 441-446.

Tianyu Huang  
Yihao Li  
Wentao Zhu

Beijing Inst. of Tech.  
Beijing Inst. of Tech.  
Beijing Inst. of Tech.

2021-8-19 GMT+8 15:15-15:30 (Beijing time)

ThB3.6

2021-8-19 GMT+1 8:15-8:30 (Lancaster, UK time)

*A Lexical Semantic Network Approach to Facilitate Chinese History Vocabulary Learning*, pp. 447-451.

Yi Liang  
Gang Cao  
Juan Xu

Beijing Language & Culture Univ.  
Beijing Language & Culture Univ.  
Beijing Language & Culture Univ.

2021-8-19 GMT+8 15:30-15:45 (Beijing time)

ThB3.7

2021-8-19 GMT+1 8:30-8:45 (Lancaster, UK time)

*Construction and Implementation of Ideological and Political Curriculum System for Computer Science and Technology Major*, pp. 452-455.

Bin Sun  
Yueli Dong

Ordos Inst. of Tech.  
Ordos Inst. of Tech.

2021-8-19 GMT+8 15:45-16:00 (Beijing time)

ThB3.8

2021-8-19 GMT+1 8:45-9:00 (Lancaster, UK time)

*Virtual Avatars for Instruction and Student Response during Streaming Video-based On-line Teaching*, pp. 456-459.

Sang-Woo Jun

Univ. of California, Irvine

## Data Science & AI

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.1

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Data-driven Based Student Programming Competition Award Prediction via Machine Learning Models](#), pp. 463-468.

Yong Liu

Beijing Univ. of Chemical Tech.

Kai Tian

Beijing Univ. of Chemical Tech.

Haifeng Wang

Beijing Univ. of Chemical Tech.

Hengyuan Liu

Beijing Univ. of Chemical Tech.

Yonghao Wu

Beijing Univ. of Chemical Tech.

Xiang Chen

Nantong Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.2

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Research on News Recommendation Based on Deep Knowledge Perception Network](#), pp. 469-474.

Huasong Cheng

Hubei Univ. of Tech.

Caiquan Xiong

Hubei Univ. of Tech.

Wenxiang Xu

Hubei Univ. of Tech.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.3

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Research on Traffic Flow Detection Based on Yolo V4](#), pp. 475-480.

Yingbin Yang

Jiangnan Univ.

Limin Cai

Jiangnan Univ.

Hao Wei

Jiangnan Univ.

Tonghui Qian

Wuhan Inst. of Biological Engineering

Zhengguang Gao

Jiangnan Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.4

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Siamese ELECTRA Network Combined with BERT for Semantic Similarity](#), pp. 481-485.

Yuan Zhu

Wuhan Research Inst. of Posts & Telecommunications

Liwei Kuang

Fiberhome Communication Tech. Co., Ltd

Zexi Chen

East China Normal Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.5

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[A Study on the Design and Display of Spatio-temporal Database of the History and Culture of "Three Hills and Five Gardens"](#), pp. 486-489.

Ziying Zhang

College of Applied Arts & Sciences Beijing

Hong Chi

College of Applied Arts & Sciences Beijing

Hui Wang

College of Applied Arts & Sciences Beijing

Ying Cao

College of Applied Arts & Sciences Beijing

Ge Liu

College of Applied Arts & Sciences Beijing

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.6

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Metacognitive Ability Evaluation Based on Behavior Sequence of Online Learning Process*, pp. 490-494.

Yan Cheng

Jiangxi Normal Univ.

Yingying Cai

Jiangxi Normal Univ.

Haomai Chen

Yuzhang Normal Univ.

Qinyi Du

Jiangxi Normal Univ.

Huan Sun

Jiangxi Normal Univ.

Meng Li

Jiangxi Normal Univ.

Jiguo Zeng

Jiangxi Normal Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.7

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Neural Cognitive Modeling Based on The Importance of Knowledge points for Student Performance Prediction*, pp. 495-499.

Yan Cheng

Jiangxi Normal Univ.

Meng Li

Jiangxi Normal Univ.

Haomai Chen

Yuzhang Normal Univ.

Yingying Cai

Jiangxi Normal Univ.

Huan Sun

Jiangxi Normal Univ.

Gang Wu

Jiangxi Normal Univ.

Zhuang Cai

Jiangxi Normal Univ.

Guanghe Zhang

Jiangxi Normal Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.8

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Two-stage Point Cloud Registration for 3D Measurement of Large Workpieces*, pp. 500-505.

Lizheng Song

Xiamen Univ.

Dongyun Lin

Xiamen Univ.

Xiafu Peng

Xiamen Univ.

Zhengfeng Li

Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.9

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Knowledge Distillation via Entropy Map for Scene Text Detection*, pp. 506-511.

Jianwei Chen

Xiamen Univ.

Yongxuan Lai

Xiamen Univ.

Yifeng Zeng

Xiamen Univ.

Fan Yang

Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.10

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Medical Insurance Medication Anomaly Detection based on Isolated Forest Proximity Matrix\\*](#), pp. 512-517.

Xiaoshan Jiang	Xiamen Univ.
Kaibiao Lin	Xiamen Univ. of Tech.
Yifeng Zeng	Xiamen Univ.
Fan Yang	Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.11

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[PageRank Centrality based Graph Convolutional Networks for Semi-supervised Node Classification](#), pp. 518-523.

Lei Chen	Xiamen Univ.
Junchi Liu	Xiamen Univ.
Xueyuan Zhang	Xiamen Univ.
Qifeng Zhou	Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.12

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Two-Stage Encoder for Pointer-Generator Network with Pretrained Embeddings](#), pp. 524-529.

Zhou Lin	Xiamen Univ.
Qifeng Zhou	Xiamen Univ.
Langcai Cao	Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.13

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[Improved AM-LSTM for Power Transformer Error Forecasting Model](#), pp. 530-533.

Xiong Gu	China Electric Power Research Inst.
Teng Yao	China Electric Power Research Inst.
Xue Wang	China Electric Power Research Inst.
Huan Wang	China Electric Power Research Inst.
Chunyang Jiang	China Electric Power Research Inst.
Qiong Xiang	China Electric Power Research Inst.
Lingyu Yan	Hubei Univ. of Tech.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP1.14

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

[The Index System of Comprehensive Evaluation of Digital Economic](#), pp. 534-539.

Xia Zhao	Hebei Univ. of Economics & Business
Tianhua Lin	Hebei Univ. of Economics & Business
Suzhen Wang	Hebei Univ. of Economics & Business
Binyue Cui	Hebei Univ. of Economics & Business

## Industrial Design

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP2.1

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Design and Development of Intelligent Assistant Mobile Application for the Elderly*, pp. 543-547.

Wu Sifan

Zhejiang Univ. of Sci. & Tech.

Huang Kengda

Zhejiang Univ. of Sci. & Tech.

Lin Xuanyu

Zhejiang Univ. of Sci. & Tech.

Cen Gang

Zhejiang Univ. of Sci. & Tech.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP2.2

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*An Intelligent Cell Outage Detection Method in Cellular Networks*, pp. 548-553.

Yuqi Ruan

Xiamen Univ.

Yilin Wang

Xiamen Univ.

Yuliang Tang

Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP2.3

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Interactive Interface Design for Telemedicine and the Emotional Needs of Patients*, pp. 554-559.

Chengjun Zhou

Hubei Univ. of Tech.

Zhijiao Wang

Hubei Univ. of Tech.

Zhaoyang Jiang

Hubei Univ. of Tech.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP2.4

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Research on Interactive Advertisement User Experience Based on VR Technology*, pp. 560-565.

Min Wang

Hubei Univ. of Tech.

Qiaojuan Liu

Hubei Univ. of Tech.

Chengjun Zhou

Hubei Univ. of Tech.

2021-8-19 GMT+8 10:30-12:30 (Beijing time)

ThP2.5

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Multi-unit Collaborative Monitoring and Optimal Control for Hydraulic Turbine Governing Systems*, pp. 566-571.

Qiming Chen

Wuhan STRONG Automatic Control Tech. Co., Ltd.

Yongtan Wang

Songhua River Hydroelectric Power Co. Ltd.

Zhenyu Wang

Songhua River Hydroelectric Power Co. Ltd.

Tianfu Cai

Wuhan Univ.

Chuan Huang

Wuhan Polytechnic Univ.

Zhijie Zhao

Wuhan STRONG Automatic Control Tech. Co., Ltd.

Lei Chen

Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP2.6  
2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)  
*Research on Sulfur Hexafluoride Management and Control Based on Radio Frequency Identification Method*, pp. 572-576.  
Guodong Qi State Grid Shandong Electric Power Research Inst.  
Lianke Xie State Grid Shandong Electric Power Research Inst.  
Qiubo Qi State Grid Shandong Electric Power Research Inst.  
Naihai Yu State Grid Shandong Electric Power Research Inst.  
Yimin Chen State Grid Shandong Electric Power Research Inst.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP2.7  
2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)  
*Calculation Of Error Of Multi-Winding Voltage Transformer Under Arbitrary Secondary Load By Determinant Method*, pp. 577-584.  
Teng Yao China Electric Power Research Inst.  
Xiong Gu China Electric Power Research Inst.  
Xue Wang China Electric Power Research Inst.  
Chunyang Jiang China Electric Power Research Inst.  
Lihua Zhou Jiangnan Univ.  
Hong Yang China Electric Power Research Inst.

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**ThP3** Poster Session  
**Computer Science**

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2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.2  
2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)  
*Design and Key Technology Research of Virtual Training System for New Coronavirus Detection*, pp. 587-591.  
Zhongxin Yi Dalian Ocean Univ.  
Yuting Yang Dalian Ocean Univ.  
Nan He Dalian Ocean Univ.  
Yan Lou China Medical Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.3  
2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)  
*Design and Applied Research of Virtual Geography Experiment System Based on Coastal Topography Cognition*, pp. 592-597.  
Huixian Jiang Fujian Normal Univ.  
Xin Chen Fujian Normal Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.4  
2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)  
*Research on the Teaching of Network Engineering Training Courses Under the Online Teaching Mode in the Era of Big Data*, pp. 598-601.  
Yimei Yang Huaihua Univ.  
Yujun Yang Huaihua Univ.  
Wei Li Huaihua Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.5

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Exploration and Application of Virtual Simulation Practice Teaching Evaluation System Under the Background of New Engineering*, pp. 602-606.

Jiu Yong	Lanzhou Jiaotong Univeristy
Yangping Wang	Lanzhou Jiaotong Univeristy
Jianwu Dang	Lanzhou Jiaotong Univeristy

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.6

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Study on Dynamic Equilibrium Factor Based on Gauss-Cauchy Distribution in Artificial Bee Colony Algorithm*, pp. 607-611.

Ao Wu	Hubei Univ. of Tech.
Hongwei Chen	Hubei Univ. of Tech.
Chunzhi Wang	Hubei Univ. of Tech.
Ming Wei	Wuhan Fiberhome Technical Services Co., Ltd.
Xianjing Zhou	Wuhan Zall Information Tech. Co., Ltd.
Yucheng Zhang	Hubei Univ. of Tech.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.7

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Facial Expression Recognition Based on Hybrid Attention Mechanism*, pp. 612-616.

Lingyu Yan	Hubei Univ. of Tech.
Menghan Sheng	Hubei Univ. of Tech.
Chunzhi Wang	Hubei Univ. of Tech.
Ming Wei	Wuhan Fiberhome Technical Services Co., Ltd.
Xianjing Zhou	Wuhan Zall Information Tech. Co., Ltd.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.8

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*An Indoor Localization Method Based on Cauchy Inverse Whale Optimization Algorithm*, pp. 617-621.

Fenghao Lang	Hubei Univ. of Tech.
Jun Su	Hubei Univ. of Tech.
Chunzhi Wang	Hubei Univ. of Tech.
Yucheng Zhang	Hubei Univ. of Tech.
Ming Wei	Wuhan Fiberhome Technical Services Co., Ltd.
Xianjing Zhou	Wuhan Zall Information Tech. Co., Ltd.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.9

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Intelligent Resource Allocation Based on Reinforcement Learning for NOMA Vehicular Cooperative Communication Networks*, pp. 622-627.

Hao Zeng	Xiamen Univ.
Lintao Zhang	Xiamen Univ.



Yuliang Tang Xiamen Univ.  
Yanglong Sun Xiamen Univ.  
Yuqi Ruan Xiamen Univ.

2021-8-19 GMT+8 10:30-12:30 (Beijing time) ThP3.10

2021-8-19 GMT+1 3:30-5:30 (Lancaster, UK time)

*Innovation of Software Engineering Course with the Background of Engineering Education Professional Certification*, pp. 628-631.

Guanbo Feng Purdue Univ. Fort Wayne  
Yue Jia Dalian Neusoft Univ. of Information

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Zheng Li	Beijing Univ. of Chemical Tech.
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Tao Tao	Anhui Univ. of Tech.
Funan Zhang	Anhui Univ. of Tech.
Lei Ren	Anhui Univ. of Tech.
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Jimei Li	Beijing Language & Culture Univ.
Zhiyue Huang	Beijing Language & Culture Univ.
Yan Li	Beijing Language & Culture Univ.
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Shanshan Yu	Hubei Univ. of Tech.
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Yan Li	The Affiliated High School of Henan Univ.
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Guihua Duan	Central South Univ.
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Ping Zhong	Central South Univ.
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Hongdong Li	Central South Univ.
Ying An	Central South Univ.
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Chengjiang Lu	Guangdong Polytechnic of Sci. & Tech.

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Yu-Wei Liang  
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Meng-Ling Jiang  
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Qiulei Zheng	Xiamen Univ.
Huifan Gao	Xiamen Univ.
Fan Yang	Xiamen Univ.
Yinghui Pan	Shenzhen Univ.
Yifeng Zeng	Northumbria Univ.

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[The Construction the Intelligent Classroom Teaching Mode based on Effective Teaching Interaction](#), pp. 1035-1039.

Guyin Li	Chongqing College of Electronic Engineering
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Xiaohui Xu	Chongqing College of Electronic Engineering

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[Reconstruct the teaching design of the Principles of Computer Organization course with Commercial Product Thinking](#), pp. 1040-1044.

Li Sun	Southeast Univ. Chengxian College
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## ThP5

Poster Session

### Digital Society

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Ce Mai	Guangzhou Univ.
Yongsheng Rao	Guangzhou Univ.
Hao Guan	Guangzhou Univ.
Linjing Zhang	Fuzhou Administration Inst.
Jietong Zhao	Guangzhou Univ.
Chuanjun Zhang	Guizhou Education Univ.

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[Research on the Development of Library in the Era of Artificial Intelligence](#), pp. 1052-1057.

Xueqing Yuan	Wuhan Univ. of Tech.
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[Study of the Design of H5-Technology-Based Information Flow Advertising and Analysis of User Experience Model](#), pp. 1058-1061.

Chengjun Zhou	Hubei Univ. of Tech.
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Caiqing Song	Hubei Univ. of Tech.
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Chengjun Zhou	Hubei Univ. of Tech.
Shiqun Yuan	Hubei Univ. of Tech.
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Bingxu Liu	China Univ. of Petroleum (Beijing)
Zhiguang Wang	China Univ. of Petroleum (Beijing)
Yize Ding	China Univ. of Petroleum (Beijing)
Qiang Lu	China Univ. of Petroleum (Beijing)
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Runyu Tian	Beijing Language & Culture Univ.
Han Si	Beijing Language & Culture Univ.
Ziqi Guo	Beijing Language & Culture Univ.
Xiaoxia Zhao	Beijing Language & Culture Univ.
Yanbin Feng	Beijing Language & Culture Univ.
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Yaoxian Lv	Beijing Univ. of Chemical Tech.
Lei Cai	Beijing Univ. of Chemical Tech.
Jingyang Gao	Beijing Univ. of Chemical Tech.
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Huiyong Li	Beihang Univ.
Jianwei Niu	Beihang Univ.
Yuanbo Dou	Beihang Univ.
Yifan Zhang	Beihang Univ.
Yiting Wang	Beihang Univ.
Shun Zuo	Beihang Univ.



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Yangping Wang Lanzhou Jiaotong Univeristy  
Jiu Yong Lanzhou Jiaotong Univeristy  
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*Research on the Characteristics & International Influence of Digital RMB (DCEP)*, pp. 1091-1096.  
Yongyi Zhang Guangdong Univ. of Finance & Economics  
Jing Qin Guangdong Univ. of Finance & Economics

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*The Improvement of the Judge's Performance Appraisal System from the Perspective of the Marketization of Data Elements*, pp. 1099-1104.  
Yuzhuo Zou Guangdong Univ. of Finance & Economics  
Rongrui Tan Guangdong Univ. of Finance & Economics

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*Large-Scale Judgments Based Sentencing Analysis of Drunk Driving Crime*, pp. 1105-1108.  
Xiaoyi Jin Sichuan Univ.  
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Peiqi Liu Sichuan Univ.  
Zhu Wang Sichuan Univ.

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*Scaling Analysis of Crime Rate with Large Scale Judgments of China*, pp. 1109-1113.  
Jing Li Sichuan Univ.  
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Suyuan Gu Sichuan Univ.

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[Multi-Task Semantic Matching model for Multi-Task Semantic Matching model for Small Noisy Data Set](#), pp. 1114-1119.

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[Semantic Matching of Legal Cases for large Scale Judgments of China](#), pp. 1120-1125.

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[Joint Extraction Methods for Semantic Retrieval in Chinese Judicial Cases](#), pp. 1126-1129.

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## Additional Paper:

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