IEEE CSEI 2020

IEEE International Conference on Computer Science and Educational Informatization

June 12-14, 2020 Xinxiang • CHINA • Virtual
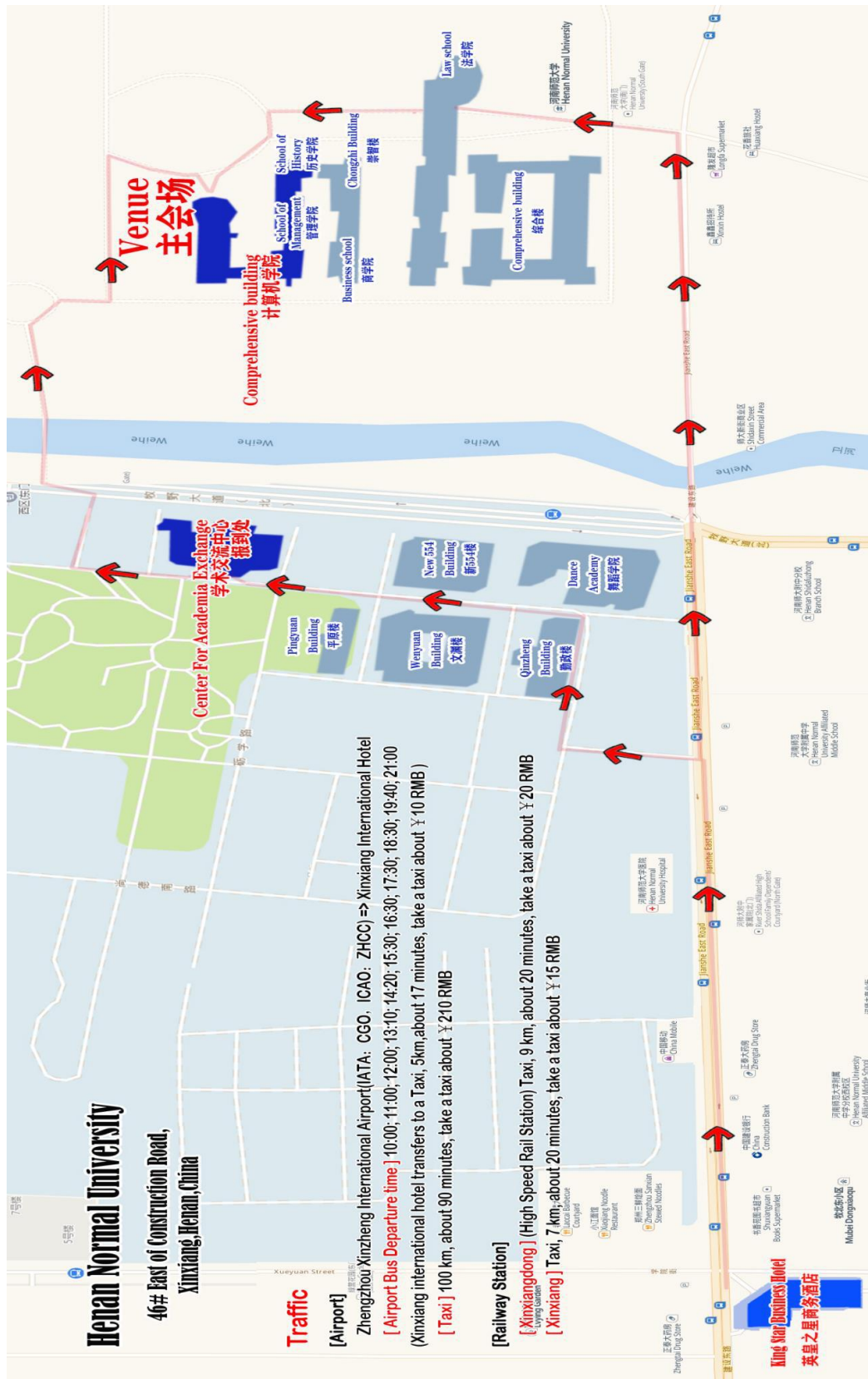
Conference Handbook

Venue Map

Henan Normal University

46# East of Construction Road, Xinxiang,Henan,China

Traffic

[Airport]

Zhengzhou Xinzheng International Airport(IATA: CGO. ICAO: ZHCC) => Xinxiang International Hotel

[Airport Bus Departure time] 10:00; 11:00; 12:00; 13:10; 14:20; 15:30; 16:30; 17:30; 18:30; 19:40; 21:00

(Xinxiang international hotel transfers to a Taxi, 5km,about 17 minutes, take a taxi about ￥10 RMB)

[Taxi] 100 km, about 90 minutes, take a taxi about ￥210 RMB

[Railway Station]

[Xinxiangdong] (High Speed Rail Station) Taxi, 9 km, about 20 minutes, take a taxi about ￥20 RMB

[Xinxiang] Taxi, 7 km, about 20 minutes, take a taxi about ￥15 RMB

Venue 主会场

Comprehensive building 计算机学院

School of Management 管理学院

School of History 历史学院

Business school 育学院

Chongzhi Building 崇智楼

Law school 法学院

Comprehensive building 综合楼

Henan Normal University 河南师范大学 Henan Normal University(South Gate)

Center For Academia Exchange 学术交流中心 报到处

Pingyuan Building 平原楼

New 554 Building 新554楼

Weiyuan Building 文渊楼

Qinzheng Building 勤政楼

Dance Academy 舞蹈学院

King Star Business Hotel 英皇之星商务酒店

Weihe 卫河

Jianhe East Road

Jianshe East Road

Xueyuan Street

Welcome from the CSEI Steering committee

As the program chair of the Second International Conference on Computer Science and Educational Informatization 2020 (IEEE CSEI 2020), it is our great pleasure to welcome you to the conference, which will be held in Virtual, China, June 12~14, 2020, hosted by Henan Normal University, Henan Computer Federation, Zhengzhou Computer Federation, Zhengzhou University, Yunnan Normal University, Key Laboratory of Educational Informatization for Nationalities （YNNU）Ministry of Education, Henan Institute of Science and Technology, Harbin University of Science and Technology, National Academy of Guo Ding Institute of Data Science. The goal of this conference is to provide a forum for computer scientists, engineers and educators.

This conference attracted 192 paper submissions. After the hard work of the Program Committee, 72 papers were accepted to appear in the conference proceedings, with an acceptance rate of 37.5%. The major topic of this conference is Computer Science and Education Informatization. The accepted papers cover a wide range of areas related to Basic Theory and Techniques for Computer Science and Education Informatization including Mathematical Issues in Educational information science and technology, Educational information science and technology, Innovative application for the deeper integration of education practice and information technology.

We would like to thank all the Program Committee members, 61 coming from 20 institutes, for their hard work in completing the review tasks. Their collective efforts made it possible to attain quality reviews for all the submissions within a few weeks. Their diverse expertise in each individual research area has helped us to create an exciting program for the conference. Their comments and advice helped the authors to improve the quality of their papers and gain deeper insights.

IEEE has been monitoring the developing COVID-19 outbreak. At present, the COVID-19 epidemic is spreading rapidly around the world, which brings challenges for long distance travel. The safety and well-being of all conference participants is our priority. After studying and evaluating the announcements, guidance, and news released by relevant national departments, we to announce that IEEE CSEI 2020, scheduled to be held will be held online. Great thanks should also go to the authors and participants for their tremendous support in making the conference a success.

our special thanks goes to IEEE Harbin section and IEEE China office, whose professional assistance was invaluable in the production of the proceedings.

Besides the technical program, this year IEEE CSEI offers different experiences to the participants. We hope you enjoy the conference.

June 2020

Dong Liu,　　　　　　　　　**Hu Jin,**
Henan Normal University　　　*Hanyang University*

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Henan Normal University

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Henan Normal University

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Henan Normal University

- **Publication Chair**

Xianhua Song
Harbin University of
Science and Technology

- **Oral Session Chairs**

En Zhang
Henan Normal University

Hualei Shen
Henan Normal University
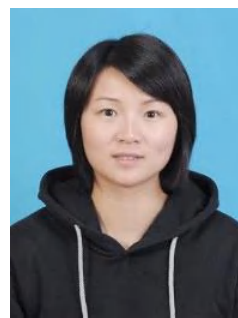
Xiaoyan Zhao
Henan Normal University

- **Posters and PhD Track Chairs**

- **Registration/Financial Chair**

Xia Liu
SANYA Aviation and Tourism college

Xiaofeng Li
Heilongjiang International University

Chunyan Hu
National Academy of Guo Ding Institute of Data Science

Program Committee Members （In Alphabetical Order）

Jinliang, An	Henan Institute of Science and Technology, China
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Lei, Chen	Sanya Aviation and Tourism College, China
Yarui, Chen	Tianjin University of Science and Technology, China
Haoran, Chen	Zhengzhou University of Light Industry, China
Yuxuan, Feng	Jilin Agriculatural University, China
Ping, Feng	Changchun University, China
Jianhou, Gan	Yunnan Normal University, China
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Shanshan, Li	Sanya Aviation and Tourism College, China

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Chunhong, Liu	Henan Normal University, China
Dong, Liu	Henan Normal University, China
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Kang, Liu	Sanya Aviation and Tourism College, China
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Jiannji, Ren	Henan Polytechnic University, China
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Xiaobo, Shi	Henan Normal University, China
Yancui, Shi	Tianjin University of Science and Technology, China
Wenjun, Shi	Zhengzhou University of Light Industry, China
Jing, Su	Tianjin University of Science and Technology, China
Peng, Sun	University of Electronic Science and Technology of China, China
Weizhi, Sun	Sanya Aviation and Tourism College, China
Lin, Tang	Yunnan Normal University, China
Hongwei, Tao	Zhengzhou University of Light Industry, China
Yiyuan, Wang	Northeast Normal Univeristy, China
Junchao, Wang	National Digital Switching System Engineering and Technological R&D Center, China
Xiaoyu, Wang	Jilin Normal University, China
Cong, Wang	Tianjin University of Science and Technology, China
Yuan, Wang	Tianjin University of Science and Technology, China
Jun, Wang	Yunnan Normal University, China
Min, Wang	Yunnan Normal University, China
Haiyan, Wang	Changchun University, China
Xiao, Wang	Zhengzhou University of Light Industry, China
Changji, Wen	Jilin Agriculture University, China
Bin, Wen	Yunnan Normal University, China
Huaiguang, Wu	Zhengzhou University of Light Industry, China
Zhenyan, Ye	Sanya Aviation and Tourism College, China
Lingyun, Yuan	Yunnan Normal University, China
Congpin, Zhang	Henan Normal University, China
Junna, Zhang	Henan Normal University, China
Chuanlei, Zhang	Tianjin University of Science and Technology, China
Yanan, Zhang	Tianjin University of Science and Technology, China
Yaming, Zhang	Yunnan Normal University, China
Weiwei, Zhang	Zhengzhou University of Light Industry, China
Tingting, Zhao	Tianjin University of Science and Technology, China
Bo, Zhao	Yunnan Normal University, China
Jian, Zhao	Changchun University, China
Zhongtang, Zhao	Zhengzhou University of Aeronautics, China
Juxiang, Zhou	Yunnan Normal University, China

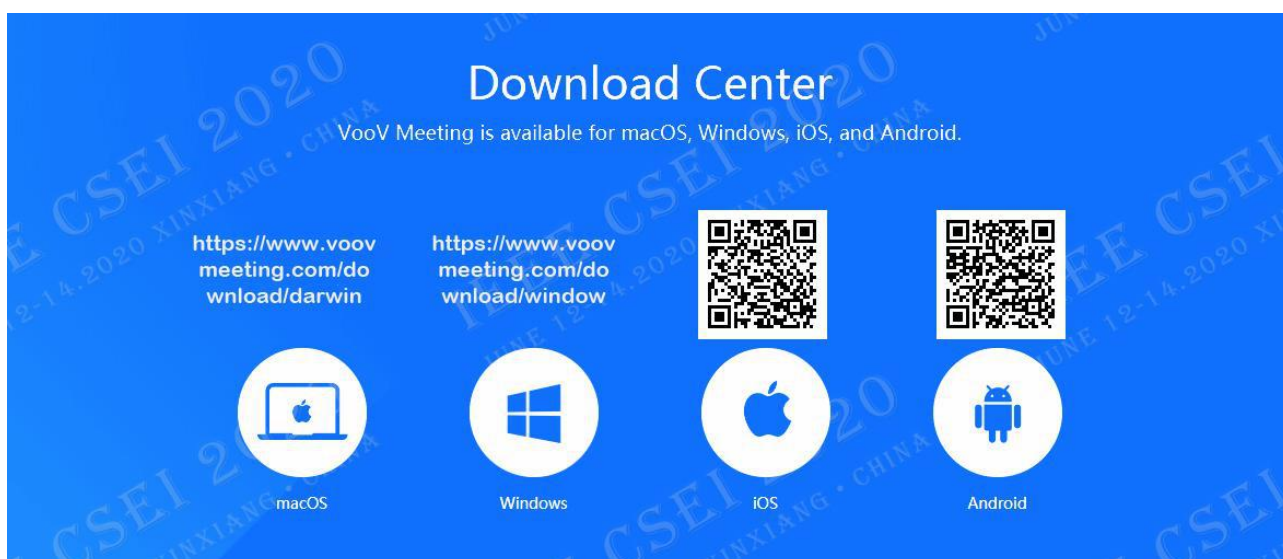# ICPCSEE Steering committee (In Alphabetical Order)

Jiajun Bu	Zhejiang University
Wanxiang Che	Harbin Institute of Technology
Jian Chen	ParaTera
Wenguang Chen	Tsinghua University
Xuebin Chen	North China University of Science and Technology
Xiaoju DONG	Shanghai Jiao Tong University
Qilong Han	Harbin Engineering University
Yiliang Han	Engineering University of CAPF
Yinhe Han	Institute of Computing Technology, Chinese Academy of Sciences
Hai Jin	Huazhong University of Science and Technology
Weipeng Jing	Northeast Forestry University
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Min Li	Central South University
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Zheng Shan	The PLA Information Engineering University
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TIAN Feng	Institute of Software Chinese Academy of Sciences
Tao Wang	Peking University
Hongzhi Wang	Harbin Institute of Technology
Xiaohui Wei	Jilin University
lifang Wen	Beijing Huazhang Graphics & Information Co.,Ltd
Liang Xiao	Nanjing University of Science and Technology
Yu Yao	Northeastern University
Xiaoru Yuan	Peking University
Yingtao Zhang	Harbin Institute of Technology
Yunquan Zhang	Institute of Computing Technology, Chinese Academy of Sciences
Min zhu	Sichuan University
Liehuang Zhu	Beijing Institute of Technology

Online Platform

Voov Meeting

https://www.voovmeeting.com

Tencent Meeting

https://meeting.tencent.com

Program at a Glance

UTC+8，Beijing Time

12 June (Friday)	10:00-16:00	CSEI Oral Session Test	A
13 June (Saturday)	09:00-09:20	Opening ceremony Host: Jiamei Tang (Henan Normal University)	A
	09:20-10:20	**Keynote:** **Virtual Reality x Belt and Road: Connected Universal Experiences around the Globe** **Xun Luo (Tianjin University of Technology)**	
	10:20-10:30	Cloud Group Photo	
	10:30-11:30	**Keynote:** **Perceiving Study Behaviours and Recommendation of Self-paced Learning Path in Large Scale Online Learning** **Xue Li (Dalian Neusoft University of Information)**	
	11:30-12:00	Q & A	
	12:00-13:00	Lunch	
	13:00-15:10	CSEI Oral Session 1-1 Chair: Peiyan Yuan (Henan Normal University)	A
	15:10-17:20	CSEI Oral Session 1-2 Chair: En Zhang (Henan Normal University)	
	13:00-15:10	CSEI Oral Session 2-1 Chair: Xia Liu (SANYA Aviation and Tourism college)	B
	15:10-17:20	CSEI Oral Session 2-2 Chair: Xiaofeng Li (Heilongjiang International University)	
	13:00-15:10	CSEI Oral Session 3-1: Chair: Hualei Shen (Henan Normal University)	C
	15:10-17:20	CSEI Oral Session 3-2 Chair: Xiaoyan Zhao (Henan Normal University)	
14 June (Sunday)	09:00-18:00	CSEI POSTERS Chair: Xia Liu (SANYA Aviation and Tourism college) Xiaofeng Li (Heilongjiang International University)	A

A ID: 856 385 998 Live：https://meeting.tencent.com/l/QSM3q22vXqxm

B ID: 449 877 904 Live：https://meeting.tencent.com/l/87n4Om4F3nEa

C ID: 636 592 626 Live：https://meeting.tencent.com/l/YmVjSGEFJOmD

Main Conference, June 13, 2020

09:00-09:20   Opening Ceremony

09:20-10:20   Keynote（Meeting Venue ID：856 385 998）

TOPIC

Virtual Reality x Belt and Road: Connected Universal Experiences around the Globe
虚拟现实一带一路：智网互联的全球一致体验

SPEAKER

Xun Luo (Tianjin University Of Technology)

BIO

Professor **Xun Luo** is a distinguished member of China Computer Federation (CCF). He also serves as a board member, director of Technical Committee on Virtual Reality and Visualization, of CCF. Luo is a Titular Professor of City of Tianjin. Professor Luo's research interests include Virtual Reality and Augmented Reality Systems, and Natural Human‐Computer Interfaces. Professor Luo obtained B.S. in Computer Science from the University of Electronic Science and Technology of China, Masters in Applied Mathematics and Ph.D. in Computer Science from University of Illinois at Chicago. He is the inventor and co‐inventor of 28 U.S. and international patents. Besides research he is also an expert in education, has served as Program Evaluator for ABET and Chinese Engineering Education Accreditation Computer Engineering Commission.

罗训 教授是中国计算机学会（CCF）的杰出会员、理事、虚拟现实与可视化专业委员会主任，天津市特聘教授。罗训的研究兴趣包括虚拟现实与增强现实系统，以及自然人机交互界面。他于电子科技大学获得本科学位，并在伊利诺伊大学芝加哥校区获得应用数学硕士学位和计算机科学博士学位。罗训作为主发明人和共同发明人拥有 28 项美国和国际专利。除科研外他在教育上也有所建树，担任 ABET 和中国工程教育专业认证协会的评审专家工作。

ABSTRACT

Study and R&D experiences in cultural diverse environments could greatly help the cultivation of young talents with vision and leadership. However, geographic distance and country borders make international mobility both overhead heavy and financially costly. On one hand, higher education is becoming more accessible in countries with rapid economic growth such as China. On the other hand, culturally immersive, high quality international experience is still far from affordable despite of the common desire for it. Geopolitical trends and public health concerns aggregate the discrepancy of supply and demand. Virtual Reality might come to the rescue. Based on this belief, we formed an mulch‐country team and tried, grew and succeeded in some cases of using VR to help education internationalization in the past few years.

在多元文化中的学习和研究经历对于青年人才的视野和领导力成长非常有益。然而地理距离和国家边界使得国际交流花费不菲，其他额外成本也很高昂。一方面，在像中国这样的经济快速增长国家中，高等教育日益普及。另一方面，文化沉浸和高质量的国际化体验尽管被广泛需要，仍然非常昂贵。地缘政治和公共卫生因素使得供需关系的矛盾更加严重。虚拟现实也许能有所帮助。基于这一信念，在过去几年中我们组建了包含多个国家成员的团队，尝试和壮大了使用虚拟现实助力教育国际化的多个项目。我们的努力在一些方面取得了成功。

10:20-10:30   Cloud Group Photo

10:30-11:30   **Keynote**（**Meeting Venue ID：856 385 998**）

TOPIC

Perceiving Study Behaviours and Recommendation of Self-paced Learning Path in Large Scale Online Learning
在线学习中的学习行为感知和自适应学习路径的推荐

SPEAKER

Xue Li (Dalian Neusoft University of Information)

BIO

Dr **Xue Li** is currently a Professor, School of Computer Science and Technology, Dalian Neusoft University of Information. He was a professor in School of Information Technology, the University of Queensland in Australia. Dr Xue Li's work on Big Data Analytics has attracted wide attentions. For example, he was listed as one of 50 "The Most Powerful people in Australia" on Big Data by the Financial Review - the Power Issue 2015; the Microsoft Start Up Q Award 2014, Winner of the Best use of Open Data – QLD Premier's Awards for Open Data 2014. His research interests are in database management, data analytics, and intelligent information systems. He is an Associate Editor of Journal of Advanced Internet of Things. He also was an Editor on Board of International Journal of Management of Information Systems & Technology. He has over 200 publications as monograph, edited books, book chapters, and journal and conference papers. His Google h-Index is 40, with 5,300 citations. He has successfully supervised 32 PhD students to graduation as their principal supervisor. In the University of Queensland, he taught many data science related courses including Database Design and Web Information Systems, Cloud Computing, Data Mining, Computer Networks.

李雪 博士目前是大连东软信息大学计算机科学与技术学院教授。他曾是澳大利亚昆士兰大学信息技术学院的教授。李雪 博士在大数据分析方面的工作引起了广泛关注。例如，他被《金融评论》(《 Power》杂志 2015 年）评为大数据 50 名"澳大利亚最有影响力的人"之一；2014 年微软创新奖，澳大利亚 昆州大数据比赛一等奖。他的研究领域是数据库管理，数据分析和智能信息系统，他是《高级物联网杂志》的副主编，还曾经担任《国际信息系统管理杂志》的编委他发表了 200 多篇论文，包括专着，书籍章节以及期刊和国际会议论文；他的谷歌 h-Index 为 40，文献被引用 5,300 多次；他作为博士生主导师已经成功地指导了 32 名博士研究生毕业。他在昆士兰大学（University of Queensland）教授了许多与数据科学相关的课程，包括数据库设计和 Web 信息系统，云计算，数据挖掘，计算机网络。

ABSTRACT

Due to the 2020 pandemic of Coroner Virus, millions of school and university students started their online learning activities. However, the problems are that the educators need to provide the online education systems more than traditional MOOC courses in order to cover all kinds of the education activities including tutorials, experiments, tests, and Lab exercises. From students' point of view, online learning gives them new challenges to adapt online learning environment to achieve the goals of learning and to cope with missing-experiences of face-to-face learning? This talk will discuss the challenges that education organizations are facing to deliver large-scale online education programs and the new technologies that will perceive and cognise the student online activities in order to improve the effectiveness and efficiency of students' self-paced online learning activities. Some of our new technology development will also be discussed.

由于 2020 年的新冠病毒疫情，成千上万的中小学和大学生开始了在线学习活动。但是，问题在于，教育者需要提供比传统的 MOOC 课程更多的在线教育系统的功能与服务，以便涵盖各种教育活动，包括教程，实验，测试和实验室练习。从学生的角度来看，在线学习给他们带来了新的挑战，以适应在线学习环境以实现学习目标并应对因不能够进行面对面的学习活动而失去的学习体验。本报告将讨论教育机构在提供大规模在线教育课程而面临的挑战，以及怎样感知学生在线活动以提高学生自适应在线学习活动的效果和效率的新技术。我们还将讨论一些目前正在进行的新技术研发和趋势。
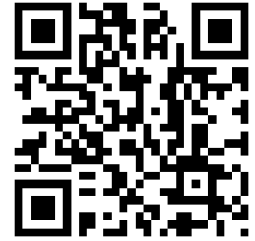
11:30-12:00   **Q & A**（**Meeting Venue ID：856 385 998**）

12:00-13:00   **Lunch**

June 13, 2020

13:00-15:10　　　Oral Session 1-1

Meeting Venue A ID: 　856 385 998

Chair: Peiyan Yuan (Henan Normal University)

13:00-13:10	-053-	Research and Design of APP for Primary School Students' Safety Education Based on Embodied Cognitive Theory
		Yufeng Xu and Lianshuan Shi
13:10-13:20	-055-	Visualization Analysis of Learning Analysis Research in International Education during the Past Decade
		Juan Ang and Jun Ren
13:20-13:30	-078-	Design of Online Teaching for Network Security Technology under Epidemic Situation
		Xuelan Zou, Xuemei Wang and Yunxia Hu
13:30-13:40	-143-	The Effect of Inhibition on the Processing and Comprehension of L2 Garden Path Sentences
		Xie Ma, Sheng-Fei Bao, Xiao-Yan Bi, Peng Wu, Gong-Run Li and Yan Liu
13:40-13:50	-011-	A Distributed Exam Item Bank System Based on Hadoop Ecosystem
		Bo Wang, Changhai Wang, Wanwei Huang and Xiaoyun Qin
13:50-14:00	-018-	Simulation and Implementation of an Ultrasonic Ranging Experiment System
		Haosong Yue, Xinyuan Zhang and Zhexin Shi
14:00-14:10	-022-	Simulation Study of Optimal Scheduling Algorithm for Massive Data in Complex Network Environment
		Huaisheng Wu
14:10-14:20	-034-	Experimental Study on Gamification Teaching of Mathematics Classroom Practice Based on Flow Experience
		Jian Zhao and Yingqi Li
14:20-14:30	-048-	The Influence of Vocational Physical Training on Physical Fitness Test for Vocational College Students
		Lei Wang, Rui-Qing Liu, Wen-Ya Xu and Xia Liu
14:30-14:40	-049-	Construction of Personalized Autonomous Learning Combining Online and Offline under Epidemic Situation
		Huandong Chen, Jinmei Shi, Juntao Chen and Jinmei Zhan
14:40-14:50	-051-	The reform and Exploration of Teaching Team in Postgraduate Courses Image Processing and Computer Vision" as an Example
		Qian Wen Hua, Xu Dan and Yuan Guowu
14:50-15:00	-065-	Application of a knowledge dissemination model based on forgetting mechanism in interactive collaborative learning
		Fangli Liu, Zheng Wei and Qianjing You

June 13, 2020

15:10-17:20   Oral Session 1-2

Meeting Venue A ID: 856 385 998
Chair: En Zhang (Henan Normal University)

15:10-15:20	-067-	Study on the Reform of the Physics Experimental Teaching in University Based on Virtual Reality Technology
		Wei Wang and Yaru Wang
15:20-15:30	-068-	Combining Learning Preferences with Cognitive Diagnosis for Predicting Examinee Performance
		Peichao Jiang, Xiaodong Wang and Bingxin Sun
15:30-15:40	-085-	Online Education Based on Edge Cache
		Haichao Wang, Tingting Hou and Jianji Ren
15:40-15:50	-094-	Chinese Learner Feature Classification Based on IFE Attribute Weighted kNN Algorithm
		Shu Wang, Lingyun Yuan, Binjie Wang and Hongzhi Yang
15:50-16:00	-115-	Design and Adoption of Bring Your Own Device (BYOD) in Smart Classroom
		Hua Feng and Wei Hu
16:00-16:10	-122-	Construction and Research of Education Emergency Network Model Based on Complex Network—A Case Study of Child Abuse Incident in Beijing RYB Education Pre-school
		Wenhui Lu and bin Wen
16:10-16:20	-161-	Research on the Application of a High-dimensional Bayesian Network in the Evaluation of Ethnic-Chinese Bilingual Teaching
		Yongxian Pu, Yuanju Feng and Quan Yu
16:20-16:30	-169-	Construction and Application of Teaching Resources Library Regarding Flight Attendant Specialty
		Mei He and Chao Li
16:30-16:40	-172-	Deep Knowledge Tracking based on Attention Mechanism for Student Performance Prediction
		Dong Liu and Huanhuan Dai
16:40-16:50	-014-	The Design of Collaborative Reflective Activity Based on Shared-Regulation
		Guanqun Liu
16:50-17:00	-077-	Research on Java EE Mixed Teaching Mode Based on CDIO
		Li Caimao and Chen Shaofan

June 13, 2020

13:00-15:10   Oral Session 2-1

Meeting Venue A ID: 449 877 904

Chair: Xia Liu (SANYA Aviation and Tourism college)

13:00-13:10	-100-	The Application of SVR-based Combination Algorithm in Applying for College in China
		Xingbing Liu,Yingying Wang, Zhen Zhang, Bin Chai, Yun Zhou and Shaoshuai Zhang
13:10-13:20	-114-	Mining the rank of world universities from Wikipedia
		Yating Li, Aoxing Wang, Qifeng Li and Kui Xiao
13:20-13:30	-140-	A method for constructing knowledge graph of ethnic cultural information resources
		Jun Wang, Zhaoxiang Ouyang, Jianhou Gan
13:30-13:40	-144-	Design and Implementation of A Scrum Project Training Platform Supporting Virtual Enterprise Environment
		Yifei Zhang and Zhezhu Li
13:40-13:50	-160-	Relation Extraction of Minority Cultural Information Resources based on Bi-LSTM and Double Attention Mechanism
		Lin Cui, Jianhou Gan and Bin Wen
13:50-14:00	-164-	Malware Analysis Platform Based on Software Gene for Cyberspace Security Practice Teaching
		Fudong Liu, Ping Zhang, Yifan Hou, Lixin Wang, Zheng Shan and Junchao Wang
14:00-14:10	-170-	A personalized recommendation algorithm for college books based on user interest
		Jiabei Lee, Tianwei Xu and Juxiang Zhou
14:10-14:20	-130-	Research on the Application of VR Technology in Military Electronic Countermeasure Teaching
		Yang Tao
14:20-14:30	-132-	A Study of English Learning Risk-taking Of High School Students in Ethnic Areas of Yunnan
		Yuan Yuan, Yichuan Yuan, Jianlin Wang and Zhidan Zhou
14:30-14:40	-007-	Analysis of the importance of mastering the mother-tongue at the start of primary school from Madagascar using the ICHC-MGK software
		Hery Frédéric Rakotomalala, Oly Bodonirina Randrianandraina, André Totohasina and Judith Razafimbelo
14:40-14:50	-009-	Research and Design on the Comprehensive Experimental of Network Security Technology Course
		Lili Yan, Shibin Zhang and Yan Chang
14:50-15:00	-010-	The Design of the Challenge Experimental Course of "Information Security System R & D" under the Background of Emerging Engineering Education
		Ruijin Wang, Shijie Zhou, Fengli Zhang and Jiahao Wang
15:00-15:10	-016-	How to Use Stock Data for Data Science Education: A Simulated Trading Platform in Classroom
		Yunkai Liu and Xiangjing Wei

June 13, 2020

15:10-17:20   Oral Session 2-2

Meeting Venue A ID: 449 877 904

**Chair: Xiaofeng Li (Heilongjiang International University)**

15:10-15:20	-020-	Active Project-Driven Learning Method for Taking the Teaching Reform of Android Programming
		Weifeng Yin
15:20-15:30	-037-	A Study on the Influence of Scene Reality of VR Environment on English Learners' Learning Engagement and Learning Effectiveness
		Caifeng Sun, Yirong Yao, Ruofan Wang and Xindong Ye
15:30-15:40	-054-	Exploration on Cultivation of Practical Ability of Artificial Intelligence Talents in Universities in the Context of Innovation and Entrepreneurship Education
		Jiao Ge, Li Lang, Deng Hongwei, Zheng Guangyong, Zou Yi and Zhao Junxia
15:40-15:50	-057-	An Application of Face Recognition Technology in University Classroom Teaching
		Yang Tao
15:50-16:00	-059-	The Influence of Emotion on Inhibition Control：An ERP Study
		Zhi Zhu, Xie Ma and Yun Tao
16:00-16:10	-066-	Integrated Curriculum Framework Design for Embedded Systems
		Wei Hu, Jing Wu, Fang Liu, Hong Guo and Min Jiang
16:10-16:20	-086-	Classroom Learning Assessment: Modeling and Tool Design Based on the SOLO Classification Theory
		Yichong Zhang, Xiaoniu Li, Ke Zhu and Chunhong Liu
16:20-16:30	-087-	Online Platform of Computer Organization Principle Teaching and Learning
		Qu Wu, Bo Lv, Yuxi Gong, Chuanwang Song, Junneng Zhang and Shuxia Liu
16:30-16:40	-124-	Teaching Reform of Practice Course Based on a Unified Experimental Platform
		Li Zhang, Qingsheng Li and Xuemei Wang
16:40-16:50	-153-	Borrowing Behaviour Driven Interdisciplinary Learning Interest Network Mining
		Qiang Zhang, Qingqing Zhang, Linli Gong, Zhigang Li, Xujuan Zhang and Wanghu Chen
16:50-17:00	-154-	The presence design of online teaching based on CoI model
		Wenyu Zhang, Weiwei Chen and Rui Wang
17:00-17:10	-155-	A Study on Providing Blended Learning Support to EFL Students of Advanced English Course
		Yuanbing Duan and Jingzheng Wang
17:10-17:20	-165-	Thinking and Practice of Online Teaching under COVID-19 Epidemic
		Zhang Ping, Fudong Liu and Zheng Shan

June 13, 2020

13:00-15:10　　　Oral Session 3-1

Meeting Venue A ID:　636 592626

Chair: Hualei Shen (Henan Normal University)
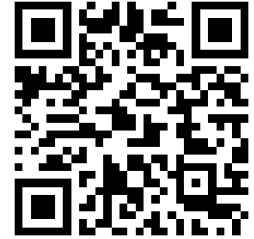
13:00-13:10	-128-	Personalized Learning Service Based on Big Data for Education	
		Jinjiao Lin, Yanze Zhao, Chunfang Liu and Haitao Pu	
13:10-13:20	-134-	Three Core Strategies in the Design of "Data Structure" Online Hard Course	
		W Chen and Z Li	
13:20-13:30	-137-	Virtual Experiment Platform Based on Chinese Speech Interaction	
		Shunqing Lin,Dongfeng Liu and Kai Zhang	
13:30-13:40	-004-	Experimental design of the mechanical design course in Distance Education	
		Yong Sang, Pengkun Liu and Lianjie Liao	
13:40-13:50	-005-	Reform in the Teaching Model of English Writing in the Big Data Era	
		Yu Rongqi	
13:50-14:00	-035-	Construction and Implementation of Blended Online Teaching Mode Based on Live Broadcasting and MOOC	
		Ying Chen, Yanyan Zheng and Tiantian Yu	
14:00-14:10	-040-	A collaborative filtering recommendation method based on language point and learning ability evaluation model	
		Songhua Hu, Yanping Chen and Xiaofeng Wang	
14:10-14:20	-050-	Design of Online and Offline Blending Teaching Mode	
		Huandong Chen and Jinmei Shi	
14:20-14:30	-060-	Using Word2vec to Match Knowledge Points and Test Questions: A Case Study	
		Peiyan Yuan, Amei Du and Chuan Wang	
14:30-14:40	-099-	The Online English Course Activities Design Based on the Motivation Mechanism of Adult Online Learning	
		Yu Jianjun	
14:40-14:50	-113-	An intelligent recommendation drilling platform for online computer education	
		Lan Huang, Liang Zhang, Xiaofang Zhang, Rui Xing, Yichuan Jiang and Yan Wang	
14:50-15:00	-121-	Exploration and Practice of Online Flip Teaching Mode in Epidemic Period	
		Xuemei Wang, Xuelan Zou and Weifeng Yin	

June 13, 2020

15:10-17:20   Oral Session 3-2

Meeting Venue A ID: 636 592626

Chair: Xiaoyan Zhao (Henan Normal University)

Time	No.	Title / Authors
15:10-15:20	-142-	Construction and Implementation of Blended Teaching Ecology Based on Cloud Classroom
		Yanyan Zheng and Ying Chen
15:20-15:30	-150-	Learning Outcomes Depreciation to Solve Knowledge Timeliness in Lifelong Education
		Yang Zhao
15:30-15:40	-125-	Application of Mixed Reality Technology in Education With the case of a Huangmei Opera Cultural Education System
		Guangjun Wang, Zhichao Lu, Zhang Yufei, Yu Qian, Zhao Haiying and Liu Deyang
15:40-15:50	-006-	Research on Personalized Recommendation of learning Resource Based on Big Data of Education
		Nan Wan, Xinli Wu, Shi Guo, Li Yang and Rongzhang Yin
15:50-16:00	-027-	Research and application of personalized learning system based on Knowledge Map
		Zhijun Yang Zhijun Yang, Ning Lei Ning Lei, Yang Wang Yang Wang and Cuilian Lv
16:00-16:10	-092-	Study on Chinese Open Domain Question Answering based on Support Vector Machine
		Yao Xianming, Xu Jian and Yang Wanhua
16:10-16:20	-138-	Online Teaching Design of University Computer Course Based on BOPPPS Mode
		Juan Chen, Yong Wang and Ying Yang
16:20-16:30	-166-	The Exploration and Practice on the Cultivation of Design and R&D Capability of Computer Students under the Model of School Enterprise Cooperation
		Yan Zhang, Lin Tong, Bin Ding, Qiang Sun, Limin Chen and Nan Xiao
16:30-16:40	-171-	Exploration and Research of blended learning in the " Principles of Computer Organization"
		Hou Yifan, Wang Wei, Liu Fudong, Shan Zheng, Wang Junchao and Wang Lixin
16:40-16:50	-173-	An Analysis on Paths of Promoting the Construction of Modern Vocational Education System by Educational Informatization
		Haoming Wang, Zhongpu He, Jiawen Ji and Juntao Chen
16:50-17:00	-063-	Research on Information-based Teaching and its Influence on Future Education under the Background of Epidemic Situation
		Wanhong Peng, Xiaoniu Li and Lilin Fan
17:00-17:10	-159-	Research on the Algorithm of Education Data Mining Based on Big Data
		Lixia Ji and Xiao Zhang

June 14, 2020

09:00-12:00　　　POSTERS 1

Meeting Venue A ID:　856 385 998

Chair: Xia Liu (SANYA Aviation and Tourism college)

**　　　Xiaofeng Li (Heilongjiang International University)**

-053-　Research and Design of APP for Primary School Students' Safety Education Based on Embodied Cognitive Theory
Yufeng Xu and Lianshuan Shi

-055-　Visualization Analysis of Learning Analysis Research in International Education during the Past Decade
Juan Ang and Jun Ren

-078-　Design of Online Teaching for Network Security Technology under Epidemic Situation
Xuelan Zou, Xuemei Wang and Yunxia Hu

-143-　The Effect of Inhibition on the Processing and Comprehension of L2 Garden Path Sentences
Xie Ma, Sheng-Fei Bao, Xiao-Yan Bi, Peng Wu, Gong-Run Li and Yan Liu

-011-　A Distributed Exam Item Bank System Based on Hadoop Ecosystem
Bo Wang, Changhai Wang, Wanwei Huang and Xiaoyun Qin

-018-　Simulation and Implementation of an Ultrasonic Ranging Experiment System
Haosong Yue, Xinyuan Zhang and Zhexin Shi

-022-　Simulation Study of Optimal Scheduling Algorithm for Massive Data in Complex Network Environment
Huaisheng Wu

-034-　Experimental Study on Gamification Teaching of Mathematics Classroom Practice Based on Flow Experience
Jian Zhao and Yingqi Li

-048-　The Influence of Vocational Physical Training on Physical Fitness Test for Vocational College Students
Lei Wang, Rui-Qing Liu, Wen-Ya Xu and Xia Liu

-049-　Construction of Personalized Autonomous Learning Combining Online and Offline under Epidemic Situation
Huandong Chen, Jinmei Shi, Juntao Chen and Jinmei Zhan

-051-　The reform and Exploration of Teaching Team in Postgraduate Courses Image Processing and Computer Vision" as an Example
Qian Wen Hua, Xu Dan and Yuan Guowu

-065-　Application of a knowledge dissemination model based on forgetting mechanism in interactive collaborative learning
Fangli Liu, Zheng Wei and Qianjing You

-067-　Study on the Reform of the Physics Experimental Teaching in University Based on Virtual Reality Technology
Wei Wang and Yaru Wang

-068-　Combining Learning Preferences with Cognitive Diagnosis for Predicting Examinee Performance
Peichao Jiang, Xiaodong Wang and Bingxin Sun

-085-　Online Education Based on Edge Cache
Haichao Wang, Tingting Hou and Jianji Ren

-094-　Chinese Learner Feature Classification Based on IFE Attribute Weighted kNN Algorithm
Shu Wang, Lingyun Yuan, Binjie Wang and Hongzhi Yang

-115-　Design and Adoption of Bring Your Own Device (BYOD) in Smart Classroom
Hua Feng and Wei Hu

-122-　Construction and Research of Education Emergency Network Model Based on Complex Network—A Case Study of Child Abuse Incident in Beijing RYB Education Pre-school
Wenhui Lu and bin Wen

-161-　Research on the Application of a High-dimensional Bayesian Network in the Evaluation of Ethnic-Chinese Bilingual Teaching
Yongxian Pu, Yuanju Feng and Quan Yu

-169-　Construction and Application of Teaching Resources Library Regarding Flight Attendant Specialty
Mei He and Chao Li

-172-　Deep Knowledge Tracking based on Attention Mechanism for Student Performance Prediction
Dong Liu and Huanhuan Dai

-014-　The Design of Collaborative Reflective Activity Based on Shared-Regulation
Guanqun Liu

-077-　Research on Java EE Mixed Teaching Mode Based on CDIO
Li Caimao and Chen Shaofan

June 14, 2020

12:00-15:00   POSTERS 2

Meeting Venue A ID: 856 385 998

Chair: Xia Liu (SANYA Aviation and Tourism college)

Xiaofeng Li (Heilongjiang International University)

-100-   The Application of SVR-based Combination Algorithm in Applying for College in China
Xingbing Liu,Yingying Wang, Zhen Zhang, Bin Chai, Yun Zhou and Shaoshuai Zhang

-114-   Mining the rank of world universities from Wikipedia

Yating Li, Kui Xiao and Aoxing Wang

-140-   A method for constructing knowledge graph of ethnic cultural information resources

Jun Wang, Zhaoxiang Ouyang, Jianhou Gan

-144-   Design and Implementation of A Scrum Project Training Platform Supporting Virtual Enterprise Environment
Yifei Zhang and Zhezhu Li

-160-   Relation Extraction of Minority Cultural Information Resources based on Bi-LSTM and Double Attention Mechanism
Lin Cui, Jianhou Gan and Bin Wen

-164-   Malware Analysis Platform Based on Software Gene for Cyberspace Security Practice Teaching
Fudong Liu, Ping Zhang, Yifan Hou, Lixin Wang, Zheng Shan and Junchao Wang

-170-   A personalized recommendation algorithm for college books based on user interest
Jiabei Lee, Tianwei Xu and Juxiang Zhou

-130-   Research on the Application of VR Technology in Military Electronic Countermeasure Teaching

Yang Tao

-132-   A Study of English Learning Risk-taking Of High School Students in Ethnic Areas of Yunnan
Yuan Yuan, Yichuan Yuan, Jianlin Wang and Zhidan Zhou

-007-   Analysis of the importance of mastering the mother-tongue at the start of primary school from Madagascar using the ICHC-MGK software
Hery Frédéric Rakotomalala, Oly Bodonirina Randrianandraina, André Totohasina and Judith Razafimbelo

-009-   Research and Design on the Comprehensive Experimental of Network Security Technology Course
Lili Yan, Shibin Zhang and Yan Chang

-010-   The Design of the Challenge Experimental Course of "Information Security System R & D" under the Background of Emerging Engineering Education
Ruijin Wang, Shijie Zhou, Fengli Zhang and Jiahao Wang

-016-   How to Use Stock Data for Data Science Education: A Simulated Trading Platform in Classroom
Yunkai Liu and Xiangjing Wei

-020-   Active Project-Driven Learning Method for Taking the Teaching Reform of Android Programming

Weifeng Yin

-037-   A Study on the Influence of Scene Reality of VR Environment on English Learners' Learning Engagement and Learning Effectiveness
Caifeng Sun, Yirong Yao, Ruofan Wang and Xindong Ye

-054-   Exploration on Cultivation of Practical Ability of Artificial Intelligence Talents in Universities in the Context of Innovation and Entrepreneurship Education
Jiao Ge, Li Lang, Deng Hongwei, Zheng Guangyong, Zou Yi and Zhao Junxia

-057-   An Application of Face Recognition Technology in University Classroom Teaching

Yang Tao

-059-   The Influence of Emotion on Inhibition Control：An ERP Study

Zhi Zhu, Xie Ma and Yun Tao

-066-   Integrated Curriculum Framework Design for Embedded Systems

Wei Hu, Jing Wu, Fang Liu, Hong Guo and Min Jiang

-086-   Classroom Learning Assessment: Modeling and Tool Design Based on the SOLO Classification Theory
Yichong Zhang, Xiaoniu Li, Ke Zhu and Chunhong Liu

-087-   Online Platform of Computer Organization Principle Teaching and Learning
Qu Wu, Bo Lv, Yuxi Gong, Chuanwang Song, Junneng Zhang and Shuxia Liu

-124-   Teaching Reform of Practice Course Based on a Unified Experimental Platform

Li Zhang, Qingsheng Li and Xuemei Wang

-153-   Borrowing Behaviour Driven Interdisciplinary Learning Interest Network Mining

Qiang Zhang, Qingqing Zhang, Linli Gong, Zhigang Li, Xujuan Zhang and Wanghu Chen

-154-   The presence design of online teaching based on CoI model

Wenyu Zhang, Weiwei Chen and Rui Wang

-155-   A Study on Providing Blended Learning Support to EFL Students of Advanced English Course

Yuanbing Duan and Jingzheng Wang

-165-   Thinking and Practice of Online Teaching under COVID-19 Epidemic
Zhang Ping, Fudong Liu and Zheng Shan

June 14, 2020

15:00-18:00   POSTERS 3

Meeting Venue A ID: 856 385 998

Chair: Xia Liu (SANYA Aviation and Tourism college)

   Xiaofeng Li (Heilongjiang International University)

-128- Personalized Learning Service Based on Big Data for Education
Jinjiao Lin, Yanze Zhao, Chunfang Liu and Haitao Pu

-134- Three Core Strategies in the Design of "Data Structure" Online Hard Course
W Chen and Z Li

-137- Virtual Experiment Platform Based on Chinese Speech Interaction

Shunqing Lin,Dongfeng Liu and Kai Zhang

-004- Experimental design of the mechanical design course in Distance Education
Yong Sang, Pengkun Liu and Lianjie Liao

-005- Reform in the Teaching Model of English Writing in the Big Data Era

Yu Rongqi

-035- Construction and Implementation of Blended Online Teaching Mode Based on Live Broadcasting and MOOC
Ying Chen, Yanyan Zheng and Tiantian Yu

-040- A collaborative filtering recommendation method based on language point and learning ability evaluation model
Songhua Hu, Yanping Chen and Xiaofeng Wang

-050- Design of Online and Offline Blending Teaching Mode

Huandong Chen and Jinmei Shi

-060- Using Word2vec to Match Knowledge Points and Test Questions: A Case Study

Peiyan Yuan, Amei Du and Chuan Wang

-099- The Online English Course Activities Design Based on the Motivation Mechanism of Adult Online Learning
Yu Jianjun

-113- An intelligent recommendation drilling platform for online computer education

Lan Huang, Liang Zhang, Xiaofang Zhang, Rui Xing, Yichuan Jiang and Yan Wang

-121- Exploration and Practice of Online Flip Teaching Mode in Epidemic Period
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-142- Construction and Implementation of Blended Teaching Ecology Based on Cloud Classroom
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-150- Learning Outcomes Depreciation to Solve Knowledge Timeliness in Lifelong Education
Yang Zhao

-125- Application of Mixed Reality Technology in Education With the case of a Huangmei Opera Cultural Education System
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-006- Research on Personalized Recommendation of learning Resource Based on Big Data of Education
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-159- Research on the Algorithm of Education Data Mining Based on Big Data
Lixia Ji and Xiao Zhang

-142- Construction and Implementation of Blended Teaching Ecology Based on Cloud Classroom
Yanyan Zheng and Ying Chen

IEEE International Conference on Computer Science and Educational Informatization
IEEE CSEI 2021

The Third IEEE International Conference on Computer Science and Educational Informatization (CSEI 2021, http://2021.ieeecsei.org) will be held in Xinxiang, China, June 18-20 2021, hosted by Henan Normal University, Henan Computer Federation, Zhengzhou Computer Federation, Zhengzhou University, Yunnan Normal University, Key Laboratory of Educational Informatization for Nationalities (YNNU) Ministry of Education, Henan Institute of Science and Technology, Harbin University of Science and Technology, National Academy of Guo Ding Institute of Data Science.

IEEE CSEI 2021 is planned to publish the proceedings with IEEE, which will be indexed by EI Compendex according to previous experience of IEEE. The program committee will recommend some high-quality papers to international journals.

Computers & Education（CAE）IF:5.627
IEEE Transactions on Learning Technologies（TLE）IF:2.315
European Journal of Engineering Education（EJEE）EI Indexed
Journal of Educational Data Mining（JEDM）
Computer Education（Chinese Journal）
Software Guide（Chinese Journal）

The conference invites computer educators to submit original research, education papers on topics of Computer Science, Education Informatization and Engineering Education, Authors are encouraged to submit full papers to the following topics (but not limited to):

Topics:

Educational information science and technology
- Digitalization technology for educational information resource
- Educational information retrieval and intelligent information processing
- Study on learning science and learning technologies
- Educational information resource management and shared service
- Educational statistics and evaluation
- Educational data mining and knowledge visualization

Educational informatization and big data for education
- Cloud computing and educational cloud services
- Education data mining and analysis based on big data technology
- Mobile learning technology
- Internet of Things technologies for education
- Modern distance education research
- The application of computer vision and virtual reality in education
- The application of artificial intelligence in education
- Accurate recommendation technology for educational information resource
- Processes or methodologies followed to analyse educational data
- Integrating the data mining with pedagogical theories

- Describing the way findings are used for improving educational software or teacher support
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- Improving assessment of learners' engagement in the learning tasks

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- Wisdom education and education resource services based on cloud computing and Internet of things
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- The application of block chain technology in educational informatization
- Research on psychology and behavior of students under the information-based environment
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Paper Submission

Papers submitted to the conference should be in English or Chinese. All submissions English documents must be prepared in the IEEE format Manuscripts must be prepared in accordance with the given submission guidelines. http://www.ieee.org/conferences_events/conferences/publishing/templates.html All submissions Chinese documents must be prepared in the Journal of "Computer Education" or "Software Guide" format Manuscripts must be prepared in accordance with the given submission guidelines. http://www.jsjjy.com or http://www.rjdk.org Only electronic submissions in PDF format will be considered.

All accepted papers will appear in the proceedings. CSEI reserves the right to exclude a paper from distribution after the conference (e.g., removal from IEEE Xplore) if none of the authors attends the conference to present their paper. The program committee will recommend some high-quality papers to international journals. These EI journals will organize a second-round review.

Important Date

- Submission Deadline of IEEE Xplore (EI indexed)： **March 5th, 2021**
- Notification of acceptance： **April 6th, 2021**
- Conference Dates： **June 18-20 2021**

Submission Information

Papers will be double-blindly reviewed without the authors' names and affiliations included. Furthermore, self-references that reveal the author's identity, e.g., "We previously showed (Smith, 1991) ...", must be avoided. Instead, use citations such as "Smith (1991) previously showed ...". Papers that do not conform to these requirements will be rejected without review. Submission will be electronic in PDF format through the Easy Chair system at: https://www.easychair.org/conferences/?conf=csei2021.

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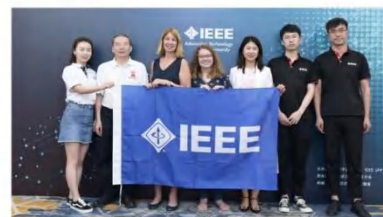## IEEE Advancing Technology for Humanity

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IEEE CSEI 2020

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