

Be in awe of education, for it shapes the soul of human,
Be cautious to technologies, for its adoption has to be effective,
Be entangled with 'wisdom', for uncertainty tends to be increasing,
Be serious to academics, for academic research requires evidence.

— Dean Ronghuai Huang, delivered at the closing ceremony of the Second US-China Smart Education Conference on March 20, 2017



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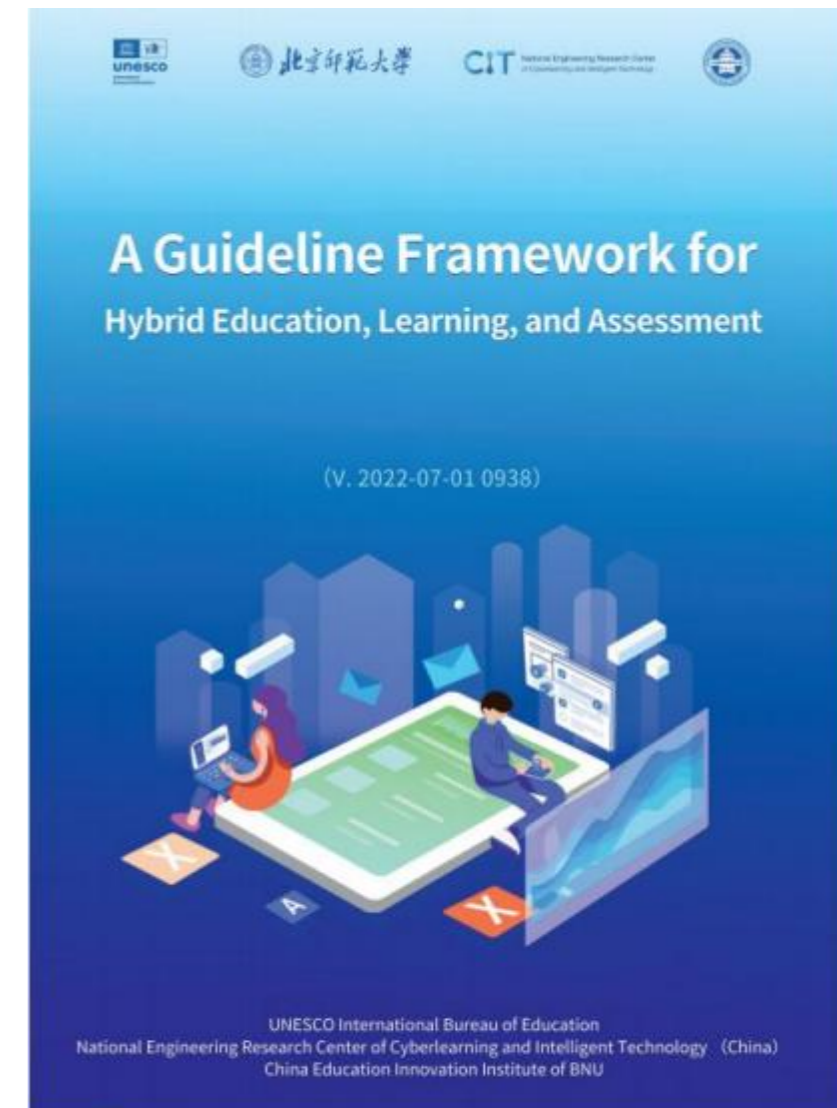
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National Engineering Research Center of Cyberlearning and Intelligent Technology (China)
China Education Innovation Institute of BNU

 **北京师范大学智慧学习研究院**
Smart Learning Institute of Beijing Normal University

Smart Learning Institute of Beijing Normal University

The Smart Learning Institute (SLI) of Beijing Normal University is a comprehensive experimental platform involving scientific research, technology development and instructional teaching, which is jointly established by Beijing Normal University and a global educational technology company, Eternity (a subsidiary of NetDragon). SLI focuses on finding learning patterns powered by ICT, creating smart learning environment and platforms for lifelong learning, as well as supporting diversified, personalized and differential learning needs for digital learners.

➤ Focusing on the methods of design, optimization and evaluation for learning environment as well as developing the key technologies for learning environment engineering aims at providing a widely-spread solution for promoting smart learning.

➤ Constructing the theory of smart learning and exploring the approaches of integrating ICT with Education aims at offering an international exchange and cooperation platform to smart learning research.

➤ Studying on the characteristics and patterns of schooling, family education, community education, enterprise learning and public learning aims at providing support for constructing a learning oriented society and smart city.

➤ Expanding the experimental areas and schools for smart learning as well as exploring the characteristics of ICT-based instruction and the models of future schools aims at promoting educational transformation and innovation.



Co-Dean Dejian LIU

Co-Dean of Smart Learning Institute of Beijing Normal University, Chairman of the Board, Executive Director of NETDRAGON, The Special Allowance Expert in State Council, Chair Professor at the College of Education of Harvard University.



Co-Dean Ronghuai HUANG

Co-Dean of Smart Learning Institute of Beijing Normal University, Director of UNESCO International Research and Training Centre for Rural Education, Director of National Engineering Laboratory for Cyberlearning and Intelligent Technology.

Open Series in Springer

- Lecture Note in Educational Technology

Series Editors: Huang, R., Kinshuk, Jemni, M., Chen, N.-S., & Spector, J.M.

- Smart Computing and Intelligence

Series Editors: Huang, R., Kinshuk, & Dede, C.

- New Frontiers of Educational Research

Series Editors: Zhongying Shi, Ronghuai Huang, Zuoyu Zhou.



Springer's Journals

- Smart Learning Environment

(The Official Journal of IASLE)

Editors: Huang, R., Kinshuk, & Soloway, E.

- Journal of Computing in Education

(The Official Journal of GCSCE)

Editors: Huang, R., Hwang, G.-J., Kong, S.-C., & Chen, W.



Design and Learning Laboratory

Study on the features and patterns of design, computational and innovative thinking for youth; Develop courses and books about design methodology, computational thinking and ICT; Build cooperative platform with world-renowned universities, enterprises and institutes for design and innovation.



The 48H Competitive Game of Education Design(2019.01)



Discuss with Prof. Larry Leifer at d.School of Stanford University (2017.04.11)

Smart City and Learning Environment Laboratory

Study on the typical learning fields in smart cities and learning societies; Create database of smart learning environment; Publish serial reports on learning environment as well as service industry and products of cyberlearning.



Release Conference of White Paper: Smart Learning Environments in China 2015 (2015.09.20)



Index Report of Smart Learning Environments in Chinese Cities



Index Report of Smart Learning Environments in Chinese Cities

Open Educational Resources (OER) Laboratory

Study on the solution of OER under its impact to the developing countries; Construct the OER community for The Belt & Road countries ; Publish reports on the trends of ICT in education



The Third US-China Smart Education Conference (2018.03)



Series of Horizon Report in China



At a Glance: Education Smart Learning and OER International Development in the Belt & Road Countries



Smart Learning and OER International High-end Forum (2017.05.25)

ICT-based Instruction Center

Explore the methodology of integrating ICT into education with large-scale experiments; Study on the solutions of smart classroom and smart campus; Provide the services for transferring education through the bridge of the theory and practice.



Initial Conference in Experimental Area of Smart Education in Fuquan, Guizhou province



101 Education PPT Solution

Educational Robotics Center

Study on the scenarios of robotics in education and the trend of artificial intelligence; Develop the courses for robotic education and STEAM education for K-12 schools. Design educational robotic for various learning fields, such as school, family, etc.



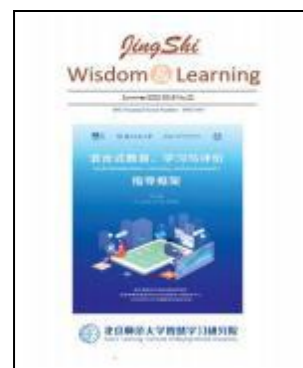
2016 Educational Robotics White Paper: The Global Development



The Next Big Thing: Global Development Status and Trends in Educational Robotics



Prototype of Educational Robotics



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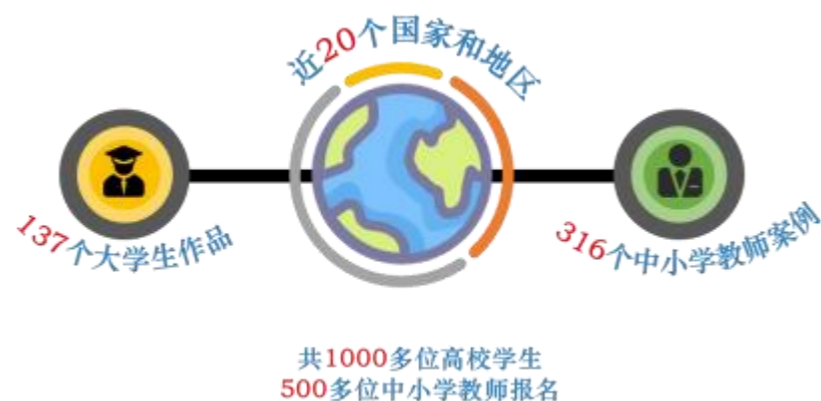
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- ▶ Smart Education Outstanding Case-writing Training Session
- ▶ Metaverse in Education Webinar Series
- ▶ Forum on Innovative Hybrid Education serving the Digital Transformation of Education



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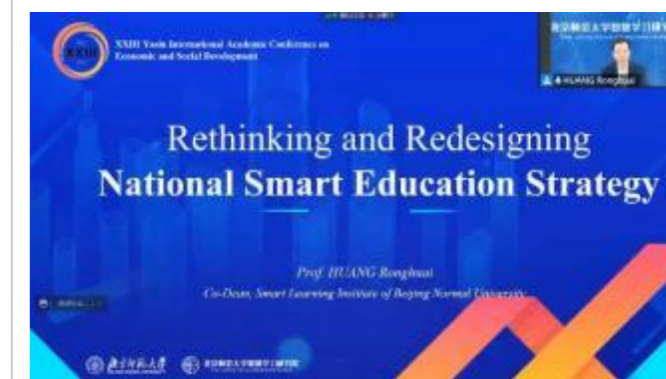
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- ▶ Rong huai Huang: Building a New Ecosystem of Smart Education
- ▶ Rong huai Huang: Promoting the Systematic Integration of Science & Technology and Education
- ▶ China Social Science Newspaper: Improving the efficacy of Artificial Intelligence Education
- ▶ Journals of Computers in Education gets Q1 ranking in Scimago Journal Rank

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- ▶ Dean Huang was invited to attend XXIII Yasin (April) International Academic Conference on Economic and Social Development.



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▶ Xiangling Zhang



Features

The Fifth Global Competition on Design for Future Education (2022)

Corporate Consultation Session for Students, Track

On April 10, The Fifth Global Competition on Design for Future Education (2022) Corporate Consultation Session for Students' Track hosted by the Smart Learning Institute of Beijing Normal University was successfully held online. Experts from Beijing Normal University, NetDragon, EEO Education, Alibaba Cloud, Tencent attended the meeting to provide participants with professional guidance on product design through the sharing of design topics.

Cases Training Session for Primary and Secondary School Teachers, Track

On April 28, The Fifth Global Competition on Design for Future Education (2022) Cases Training Session for Primary and Secondary School Teachers' Track hosted by the Smart Learning Institute of Beijing Normal University was successfully held online. Educational experts as well as designers of previous award-winning cases were invited to help participants develop design thinking that can apply emerging technologies to solve educational problems through case sharing. The invitee list included Professor Guangju Chen- Vice Chairman of the Council of BNU and Chairman of the Competition Steering Committee, Natalia Amelina-Senior National Project Officer of the UNESCO IITE, Jianguo Shi- Vice President of China Academy of Educational Equipment and Expert of the competition, Xia Chen-Principal of the First Primary School in Longquanyi District, Chengdu, Sichuan, and Meihong Zheng-Principal of Luming Primary School in Kecheng District, Quzhou, Zhejiang.



Preliminary Contest Training Sessions for Students, Track

On April 29, The Fifth Global Competition on Design for Future Education (2022) Preliminary Contest Training Sessions for Students' Track hosted by the Smart Learning Institute of Beijing Normal University was held online. Experts from Beijing Normal University, NetDragon, EEO Education, Alibaba Cloud, TDesign, and Huawei Cyberverse attended the meeting and made reports on how to lead educational innovation and introduced design methods, tools, and well-designed cases to help participants further understand the design thinking and the application of emerging technologies in education that can contribute to the designing of meaningful works.



Guidance Session for Primary and Secondary School Teachers, Track

On May 14, The Fifth Global Competition on Design for Future Education (2022) Guidance Session for Primary and Secondary School Teachers' Track hosted by the Smart Learning Institute of Beijing Normal University was held online. Jianguo Shi- Vice President of China Academy of Educational Equipment, Junfen Lin- Executive Deputy Director of Guangdong Basic Education Future Curriculum Research Center, and Xianlian Zou- Principal of Xingyuan Primary School in Chongqing Liangjiang New District were invited to provide targeted guidance for participants through commenting on cases to inspire more excellent cases.



Project Guidance Session Series for Students, Track

From May 12 to 14, The Fifth Global Competition on Design for Future Education (2022) Project Guidance Session Series for Students' Track (which included five themed meetings) hosted by the Smart Learning Institute of Beijing Normal University was successfully held online. Ran Zhang- Technical Director of Trimble Sketch Up in Greater China, Yuening Bai- Deputy Director at Educational Development Center of Communication University of China, Jie Niu- Director of Education Sector of Alibaba Cloud, Zheng Ya- Expert of Content and Scene at Huawei Cyberverse, Junjie Peng- Senior Industrial Design Director of NetDragon Co., Ltd and Han Gao- Vice President of ClassIn attended the meeting and provided the participating teams with one-on-one guidance including focusing on pain points in education, organizing the key points of project design, and giving suggestions on optimization.



第五届全球未来教育设计大赛 (2022)
The 5th Global Competition on Design for Future Education (2022)

Shortlists of the Fifth Global Competition on Design for Future Education (2022)

On June 18, the kick-off event of the preliminary of The Fifth Global Competition on Design for Future Education (2022), jointly hosted by Beijing Normal University, Beijing Institute of Design, UNESCO IITE and other domestic and foreign organizations, universities and well-known science and technology enterprises, was held online. The competition has Students' Track and Teachers' Track, in four themes, namely AI and Education, Metaverse and Education, Rural Education and Inclusive Education. The meeting announced the shortlists. The representatives of the review experts interpreted the selected cases and provided optimization suggestions.



Jianguo Shi

Vice President of China Academy of Educational Equipment

"Comprehend the standard and improve the scheme; Get ready for the semi-finals; Keep improving and promote achievements."



Dongming Ma

Teacher of Product Design Department of Beijing University of Chemical Technology
"Cultivate the problem-solving awareness; Innovate in thinking mode and methods."



Junfen Lin

Executive Deputy Director of Guangdong Basic Education Future Curriculum Research Center

"Three ideas for future educational design: Value thinking, Green light thinking, and Design thinking"

Lian Yang

Market Manager of Tencent TDesign

"When designing, students need to refine the summary and presenting of their ideas, be innovative, pay attention to the integration of science and education, and show the social responsibility and application prospects."



Guangju Chen

Vice Chairman of the Council of BNU

"Announced the Shortlists and the schedule of the upcoming events."

Shortlists of Students, Track

Rural Education

- 乡课通——基于乡土资源再发现的课程开发及研学共享平台
- 筋斗云创——基于 STEAM 创客教育理念下的城乡智慧交流平台
- 寓教于影——基于农村中小学电影美育材料的研究与传播
- 音未书册
- 以艺术治疗为基础——实现美育+心理教育的“艺心绘”网络教学 APP
- “为心赋能，为爱扬帆”——构建合理化的乡村教师心理健康教育服务资源平台
- 普洱市景谷县永平镇初中跨学科校本课程案例设计案例开发
- 青语——基于农村背景“生理+心理”双维度青春期教育平台的建构
- 农村心生第一课

Inclusive Education

- 淘美且异——全纳教育视角下汉语阅读障碍儿童的可穿戴设备系统开发
- Together Volunteer

- “The Same”——线上、线下相结合的性别平等教育平台
- 阅见未来——阅读障碍儿童干预桌面游戏方案设计
- “太阳强烈，水波温柔”——抑郁症倾向青少年关怀计划
- 愈你——孤独症家庭社群
- “手”护——面向听障人士家属以及社会人士的手语学习及听障知识普及教育
- 绘声达意——为无声世界提供无障碍阅读新方式
- 绘梦如光，做你的眼——基于智能交互系统的视障儿童绘本据教学设计

AI and Education

- 惠乐编——智“惠”教育，文“赋”未来
- 汉语零距离
- “提问”可视化分析工具 依托于网页端，应用于中学在线课堂的小组讨论
- Usage of AI technology for students behavior analysis inside classroom
- 面向大学生群体的情绪宣泄智能舱
- x-folio社区作品集共创平台
- 向阳小屋——AI心理健康陪伴
- 基于人体关节点识别的信息化时代武术教学系统——以太极拳为例
- 云上魔镜——数智融合驱动下在线协作知识树生成以及画像构建

Metaverse and Education

- 系统思维视域下元宇宙+中医药文化教育产品设计与开发——C-Meta
- BINGO（秉骨）——VR骨科教育
- 23号星球——高中生的心理元宇宙
- “元宇宙+教育”视域下的混合现实高中美术教室场景设计
- 游而思——元宇宙与游戏实现职业生涯规划教育
- 元宇宙种植园——依托元宇宙的自然教育
- The empowered teacher for the META future
- 以艾之名——适用于受艾滋病影响儿童的教育游戏

Shortlists of Teachers, Track

Rural Education

- “游戏化设计思维”助力小学英语课堂教学
- 基于BASIC语言的教学用嵌入式程序控制器开发和应用
- 《农村小学开展创客教育实践研究》
- 利用现代信息技术优势 破解留守儿童教育难题
- 三维一体劳动教育模式
- 指向核心素养的小学美术项目式教学设计——以《团扇》为例

- 《驿道拾遗》研学案例
- 基于增强现实（AR）的初中化学虚拟实验探究式教学
- “安心接”智慧接娃
- 夷陵区信息技术应用能力提升工程2.0组织实施典型案例
- “单”导“课”领信息化教学模式
- 大单元下的“三层级四课型”体验式阅读教学模式构建
- 二维情境式国学启蒙动画的设计与制作——以《山海经》为例
- 借助网络平台构建区域美育学习共同体，助力乡村教师专业成长
- 《农村小学生语文作业习惯培养的策略研究》
- 《土家竹编》课程开发案例
- 交互式教学工具研究
- 芒果课程
- 《熊猫的梦——绘制图像与逐帧动画》
- 实景课堂赋能，城市农村学校互补共享优质教育资源
- STEAM教育理念下蚕桑种养项目式学习科技实践活动教学方案
- “服务学习”视域下探索农村学生社会责任感培养新模式——以有点蓝布艺课程的实践为例
- 基于智慧作业应用改进农村小学疫情线上教学的解决方案
- 小学美术课堂教学科幻画的实践
- 长江的微笑》教学设计
- 疫情背景下初中教师对小升初衔接课程实施的思考
- 《明德影院课程》
- 知行合一助“双减”，五育并举向未来

Inclusive Education

- 强化物运用对学龄前孤独症儿童行为干预的应用研究
- 融合环境中孤独症儿童集体指令执行技能训练研究
- 妙手生音——你的心声，我能倾听！
- Can structured team feedback engender a more inclusive online classroom?
- 这间教室特别有“爱”——资源教室对全纳教育的推动作用
- clil.link——CLIL联结（互联网+教育：用英语打开知识之门）

Metaverse and Education

- 整合现有资源，利用人工智能开创教育元宇宙
- 基于元宇宙理念的线上课标实验课程实施方案——以《土壤中分解尿素的细菌的分离与计数》为例
- 线上线下融合的项目式水环境主题教育活动
- 元宇宙初探：虚拟世界的高中美术鉴赏课堂教学策略与实施
- 宇宙教育在高一英语课程中的应用之B3U4板块
- 科学大数据平台赋能教育元宇宙——基于WorldWide Telescope的元宇宙在线课程开发与应用
- 新课程标准下元宇宙素质科普教育在义务教育阶段的应用实践
- 走近我国传统节日端午节

AI and Education

- 遵义精准化教学推进高效课堂建设初探
- 智能餐厅
- STEAM教育理念下的中小学人工智能课程设计及其实施方案的研究
- 中学化学实验室废液自动化处理课程活动
- 利用“问卷星”高效预习，实现课堂轻负增效
- 小学信息科技AI课程——人工智能在身边
- 智慧课堂模式下的作业改革减负增效实践研究
- 融合式阅读：“线上+线下+自主”大阅读体系的构建与实施
- 基于“互联网+”模式下的实景课教学实践
- 都是“红楼梦”中人——信息技术背景下的跨学科沉浸式阅读
- 人工智能技术下互动视频教学资源探究——以初中英语听说课堂教学为例
- 智能环境 智慧学习——青少年人工智能基地建设案例
- 智慧教育背景下多课型混搭教学的设计与实践
- 自制液压传感器在探究液体压强与深度关系教学中的应用
- 融合人工智能的项目式学习案例——校园智能物流小车的设计和制作
- iPad教学及学科融合在科学教育中的研究案例——《相貌各异的我们》
- AI听说课堂与初中英语听说课堂的深度融合
- 重庆11中听评课系统
- 家园“云”连通，共育向未来——基于“云慧玩”平台深入探索家园共育新方式
- 多学科融合教学模式之创客作品应用于科学实验课堂
- 高中科创教学案例之《机甲对抗》教学设计
- 深度学习指向的手机APP在研学旅行中的应用
- 创客模式下信息技术创新课程——棋子分拣器
- 巧用智慧课堂 提升网络素养——《网络新世界》教学案例
- 体验人工智能技术（一）
- 借助图形化编程工具实现小学音乐可视化教学案例——《小星星变奏曲》
- 基于信息化平台下的家校朗读互动学习模式构建与实施的研究
- 体验“编”与“程”的乐趣，品味“学”与“习”的真谛
- 基于python编程下多平台数据共享的小学英语教学评一体化运用
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- 开心劳动 慧行立人
- 重构师生关系 指向课程再造——技术赋能的云上名师工作室构建与实践
- “循数赋教”——数据领航幼儿园保教质量提升新征程
- 《人工智能——人脸识别技术》
- 聚焦思维理解，发展核心素养

Important Events

Call for entries for the "Outstanding Results of Youth Artificial Intelligence Projects"

On 28 December 2021, the "Youth Artificial Intelligence Innovation Initiatives" (also known as "Yuanzhuo Project") initiated by BNU and jointly implemented by several universities, primary and secondary schools and technology enterprises, held a kick-off event in Beijing.

From April to June 2022, the "Yuanzhuo Project" with a total of 1816 participants has organised two community events, four "Reading Month" activities, a "Review on Reading Month", and a lecture on "Metaverse and Education". The project also successively released community event brochures for January and February. Besides, a wrap-up meeting for the second stage of Call for entries for the "Outstanding Results of Youth Artificial Intelligence Projects" was held.

The image shows three brochures for the Yuanzhuo Project. The first two are for '元卓学堂' (Yuanzhuo Classroom) community activities, listing dates, times, and topics. The third is a calendar for the '五月读书月' (May Reading Month) activities, listing dates, times, themes, participants, and hosts.

时间	主题	参与人员	主持人
05.08 09:00-12:00	义务教育课标学习专题活动	教研员、一线老师、大学专家等	张进宝
05.14 10:00-12:00	《终身幼儿园》读书活动	毛澄洁 (组长) 北京景山学校 乌兰 人大附中第二分校 杨阳 广西贺州市钟山县第二高级学校 梁梅芳 华南师范大学 赵杰 成都市七中育才学校 魏拥军 大庆市教师发展学院	毛澄洁
05.21 10:00-12:00	《深度学习的数学》读书活动	金鑫 (组长) 人大附中丰台学校 胡志宏 上海交通大学附属中学 白崇宇 重庆教育科技有限公司 姜小红 北京雅云教育 张鹏宇 未来基因 (北京) 人工智能研究院 陈惠雯 深圳市优必选科技股份有限公司 康晓峰 (组长) 苏州世华学校	金鑫
05.28 10:00-12:00	《第四次教育革命》读书活动	张香玲 北京教育学院 王前进 北京杨图科技有限公司 张继伟 临沂金雀山小学 薛萍 天津市滨海新区塘沽新港第二小学 吕秀琴 石嘴山市实验中学	康晓峰

Smart Education Outstanding Case-writing Training Session

On April 1 and May 6, respectively, the Secretariat of the Expert Group for the "Smart Education Demonstration Zone" project commissioned by the Ministry of Education organised two "Smart Education Outstanding Case-writing Training Session". The meetings invited experts in smart education to demonstrate how to build regional or school smart education with highlights and characteristics.

Zhuzhu Wang: Distinguished Professor of Central China Normal University. Professor Wang shared her opinion about "the main theories and views of smart education", "the national promotion of smart education and the problems that remain to be handled".

Qiong Wang: Professor of School of Education, Peking University. Professor Wang analysed the content, method and form of an authentic case, the "Integration Classroom of Microsoft Translator and RIT", pointing out that an excellent case should tell its own story in an educational way and be of human value.

Junfeng Yang: Deputy Director of the Education Informatization Strategy Research Base (Beijing) of the Ministry of Education, and Professor of Jing Hengyi School of Education, Hangzhou Normal University. Professor Yang shared the key points of case-writing from the perspective of participating in international projects, and pointed out that Smart Education is where we will reach through digitalization.

The poster for the Smart Education Outstanding Case-writing Training Session lists the following speakers and topics:

- 王焜焜:** 教育部“智慧教育示范区”建设专家委员会成员、北京师范大学教授、博士生导师。分享内容：“智慧教育示范区”建设中的主要理论与观点。
- 王琼:** 北京大学教育管理学院教授、博士生导师。分享内容：“智慧教育示范区”建设中的主要理论与观点。
- 姜萍:** 教育部教育技术与资源发展中心（中央）主任。分享内容：智慧教育示范区建设中的主要理论与观点。

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- 姜萍:** 教育部教育技术与资源发展中心（中央）主任。分享内容：智慧教育示范区建设中的主要理论与观点。



Su Wang: Director of the Institute of International and Comparative Education of Chinese Academy of Educational Sciences. She introduced the development pattern of international education informatization, focusing on the construction of Singapore's national smart education and the internationally representative cases of school smart education.

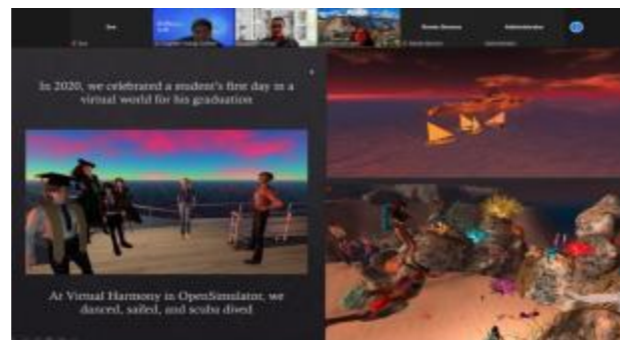
Jing Ao: Deputy Director of the Education Technology Equipment and Information Center of Wuhou District, Chengdu, and Head of the Smart Education Promotion Office of Wuhou District. Director Ao shared the goal, planning layout, specific measures and practical experience of Wuhou Smart Education construction in the past three years.

Metaverse in Education International Webinar Series

➤ On May 13, the Smart Learning Institute of Beijing Normal University held the Metaverse in Education International Webinar Series 3, at which Assistant Professor Muhsinah Morris of Morehouse College gave a lecture entitled "Metaverse University: How VR Changed Education Game", and Researcher Kata Szita of Trinity University gave a lecture entitled "VR and Film: Social Behavior and Viewing Experiences in VR Cinemas".



➤ On June 17, the Smart Learning Institute of Beijing Normal University held Metaverse in Education International Webinar Series 4, inviting Professor Renée Stevens from Syracuse University to share a lecture entitled "Making Reality More Accessible", and Professor Cynthia Calongne from Park University to share a lecture entitled "Education in the Metaverse: Teaching, Learning and Human Computer Interaction".



Forum on Innovative Hybrid Education serving the Digital Transformation of Education

➤ On the afternoon of June 18, the 6th China Education Innovation Achievement Welfare Expo Series successfully held the Forum on Innovative Hybrid Education serving the Digital Transformation of Education. Co-hosted by the IBE-UNESCO, the China Education Innovation Institute, Beijing Normal University, and the National Engineering Laboratory for Cyberlearning and Intelligent Technology, the meeting invited well-known experts and scholars in the field of education informatization at home and abroad to discuss how hybrid education supported by artificial intelligence can promote the innovative development of education and help realize the digital transformation of education in China.

In order to rethink the future of education under the background of the accelerating development of artificial intelligence technology and major challenges posed to education by the COVID-19 epidemic, the forum released the *Guidance Framework for Hybrid Education, Learning, and Assessment* (Chinese version) with joint efforts of Renato Opertti, Senior Expert of IBE-UNESCO, Professor Ronghuai Huang, Dean of the Smart Learning Institute of Beijing Normal University, and Huanhuan Wang, Postdoctoral Fellow of the National Engineering Laboratory for Cyberlearning and Intelligent Technology.



Guidance Framework for Hybrid Education, Learning, and Assessment (Chinese version)



Yao Ydo, Director of IBE-UNESCO



Jian Liu, Dean of China Education Innovation Institute, Beijing Normal University

Project News

By June 2022, members of the 2021 China Smart Learning Environment White Paper Project team had completed more than 240,000 words of the main body of the report, more than 30,000 words of the summary version of the report, and more than 11,000 words of the overall report, and had sorted out and summarized the policy documents. The project made plans for the next two years, intending to conduct in-depth research on smart learning products and industrial development.

Submitted by **Yanli Jiao**

Members of the Educational App Assessment Project team wrote and revised the manuscript, held a meeting to discuss and improve the manuscript. They have currently completed the first draft of more than 120,000 words, 226 pages in total. The team also participated in the work related to the project application hosted by Ministry of Science and Technology, attended the meeting of the research group, communicated with the teachers of each sub project, and dealt with the relevant application materials

Submitted by **Yanli Jiao**

Members of the SLI-ALECSO Smart Learning Joint Lab have completed all the writing of the research report on educational technology enterprises, which has been sent to ALECSO for feedback. On June 7, DJ approved the core value of the Arab Smart Education Industry University Research Cooperation Platform project. We received positive feedback from ClassIn, China Communications Services and other companies after the project introduction meetings. The design of the laboratory website is completed, and the English version is ready to be launched; The translation of the Arabic website is in progress, and the domain and layout of the website has been determined.

Submitted by **Tingwen Chang and Ahmed**

The proofreading and revision of the Global Artificial Intelligent Education Support Environment for K-12 White Paper have been completed. The English version has been finalized, and the Chinese version will be officially released on July 2 at the Seminar on Computing Thinking Education for K-12 (2022) and the Bebras China Community Annual Conference.

Submitted by **Youjie Yao**

The framework of Rural Education Revitalization and Education Informatization has been preliminarily adjusted according to the requirements for blue paper from Social Science Literature Press into two overall reports, four sub reports, 4-6 special reports and 8-10 case study. The total number of words of the blue paper will be around 300,000. The project team is in contact with experts of the editorial board to check the research and writing progress. Three draft report have been received from the experts successively, and through communication the schedule of the report revision have been determined. Based on the complete blue paper framework, materials for the case study report "Rural Education Development under the Digital Education Strategy" have been preliminarily collected and will be directed to regions and schools.

Submitted by **Yongzhong Wang**

The project team invited the team of Professor Di Wu, Executive Deputy Director of Educational Informatization Strategy Research Base, Ministry of Education (Central China) and the team of Professor Jiong Guo, Executive Deputy Director of the Educational Informatization Strategy Research Base (Northwest) of the Ministry of Education to jointly participate in the second round of selection and evaluation of excellent cases of smart education. A total of 182 eligible cases were selected in either Regional Construction, School Practice, Solutions, or Research Results. According to the results of the second round of case selection, the project team organized the third and fourth Case Revision Training Session for Smart Education Excellent Cases on June 23 and 30, respectively, and invited experts such as Professor Zhuzhu Wang, Professor Su Wang, and Professor Jiong Guo to provide guidance on the improvement of framework design, core content, features and highlights.

Submitted by **Yongzhong Wang**

On June 21, President Huang, as a chief expert from China, was invited to and made a speech at the video conference of the working group on "Building a China-ASEAN Comprehensive Strategic Partnership: Youth Empowerment in the Digital Age", introducing China's practices and experience in digital transformation and empowering young people, and putting forward policy recommendations for cooperation between China and ASEAN, which received positive responses from the host and experts and scholars from ASEAN countries. The meeting was reported by People's Daily Online. The laboratory assisted in preparing relevant materials for the conference, improved the policy recommendations and project initiatives of "China-ASEAN Education Digital Transformation Empowering Youth" according to the speech, and wrote the initial draft of the report.

Submitted by **Xinjian Qi**

Books & Articles

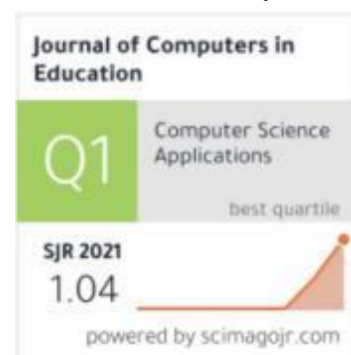
Journals of Computers in Education gets Q1 ranking in Scimago Journal Rank

According to the latest Journal Ranking of Scimago Journal & Country Rank, the *Journal of Computers in Education* (JCE)'s 2021 Scientific Journal Rankings is 1.039, getting Q1 ranking in both subject categories of Education and Computer Science Applications.

JCE was established in 2014, jointly published by Beijing Normal University and Springer-Verlag. It is the official journal of the Global Chinese Society for Computers in Education (GCSE). Since its establishment, it has published 9 Volumes and 34 Issues including more than 200 academic papers. JCE is an interdisciplinary forum which publishes up-to-date research and experiences in information communication technologies (ICT) in learning and education. According to the SJR journal rankings, in the dimension of Education, JCE ranks 166th out of 1381 journals in the education dimension (161/1381), while in the dimension of Computer Science Applications it ranks 161st out of 729 journals (161/729),

and both rankings have entered Q1. The Scimago Journal & Country Rank is a publicly available portal for international journal evaluation, analysis and ranking, covering academic journals published in almost all countries. The Scientific Journal Rankings (SJR) is developed by Spanish academic team, Scimago. SJR considers not only the absolute number of citations, but also the quality of citations. For example, when the total citation frequency is equal, the more cited journals are by journals with high reputation (such as Nature or Science), the higher the reputation of the journal will be.

In the field of Education Technology, renowned international academic journals which also get Q1 ranking include *Computers and Education*, *Interactive Learning Environments*, and *Journal of Computer-assisted Learning Computer Assisted Learning, Educational Technology and Society*, etc.



Smart Learning Environments gets Q1 ranking in Scimago Journal Rank and ranks 8th in the Editorial Excellence of Springer Nature

According to the latest Journal Ranking of Scimago Journal & Country Rank, the Smart Learning Environments (SLE)'s 2021 Scientific Journal Rankings is 0.9, getting Q1 ranking in the subject category of Education.

Established in 2014, SLE is the official journal of the International Association of Smart Learning Environments (IASLE). SLE seeks academic articles on the issues related to the reform of the ways of teaching and learning through advancing current learning environments towards smart learning environments. Since its establishment, it has published 9 Volumes with 202 academic papers. It is worth mentioning that SLE is a fully open access journal, with no charge (no subscription and registration fees) to authors or to readers. According to the SJR journal rankings, in the dimension of Education, SLE has entered into Q1, ranking 216th out of 1381 journals in the education dimension (216/1381).

In addition, SLE ranks 8th (in the top 10%) in Springer Nature's 2021 Editorial Excellence list. The rankings are based on the data from the annual Journal Author Satisfaction survey conducted by Springer Nature, which invites journal authors to provide feedback on their publishing experience within a week of publication in order to select journals that exemplified editorial excellence in 2021.

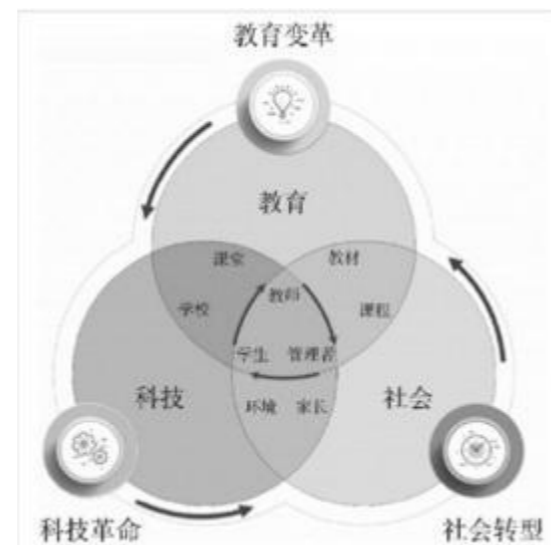
The top 10% of qualifying journals also include renowned educational journals such as *Journal of Youth and Adolescence* and *School Mental Health*.



Ronghuai Huang: Promoting the Systematic Integration of Science ,Technology and Education

Abstract:

By studying the basic trend of scientific and technological revolution, and analyzing the ideas, methods and practical difficulties of educational reform and development, this paper proposes that the exploration practice of "science and technology changing education" is expanding from a single sci-tech empowerment to four dimensions: social transformation, sci-tech empowerment, educational reform and orderly reform. Comprehensive educational reform depends on the deep and orderly reform of various educational scenes which needs to be promoted coordinately, thus promoting the systematic reform. The further integration of science and technology and education requires orderly promotion and iterative development in accordance with the link of "Demand-Integration-Evolution-Governance" in each educational scene: "Demand" for defining new educational demands in social transformation after identifying educational reform scenarios; "Integration" for enabling science and technology empowerment being the core value of integration of intelligent technology into education; "Evolution" for taking social experiment and simulation as the important basis for the evolution and intervention of educational reform; and "Governance" for ensure the orderly advancement of education system reform in a smart society through technology governance. Science, technology and education are gradually forming a new pattern of systematic and deep integration of all fields, all elements, all chains and all businesses to jointly build the future education ecology.



Guangming Daily's Exclusive Interview with Ronghuai Huang: Building a New Ecosystem of Smart Education

Abstract:

With the development of information technology, the way how knowledge is acquired and taught has undergone revolutionary changes, and the digital reform in education is accelerating. The report of the 19th National Congress of the Communist Party of China proposed that we should build China into a network power, a digital country with a smart society meaning "Digital China" has become a national strategy. The Internet, big data, artificial intelligence and other new information technologies have been comprehensively applied to China's construction in every field, and has brought decisive progress and remarkable results. Driven by the national education informatization policy, China has made an initial breakthrough in education digitization transformation with notable gains in the construction and application of infrastructure, digital resources and information platforms. That digital transformation currently being the focus of education reform and development requires us to raise digital awareness, develop digital thinking and digital application in all fields, all elements, all processes and all businesses, and build a new ecological environment of smart education in accordance with the principle of "demand-driven, application-and-service-oriented".

The article believes that the core tasks of the digital transformation of education, based on the principle of cultivating people and the goal of quality development of education, include six aspects, namely "changing ideas, updating textbooks, and promoting the digital transformation of education", "innovating assessment, building environment, and optimizing digital teaching quality", and "regional coordination, optimizing ecology, and improving digital governance of education".



Publication: Global Smart Education Newsletter

Purpose:

to track the latest progress of global smart education, provide reference for China's digital strategic action in education, and contribute to the development of China's smart education.

Sections:

Digital Empowerment and Student Growth, Technology Empowerment and Teaching Innovation, Intelligent Technology and Learning Assessment, Virtual Learning Space and Future Schools, Digital Education Resources and Open Access, Artificial Intelligence Governance and Education Policies, Conferences and Consultations.



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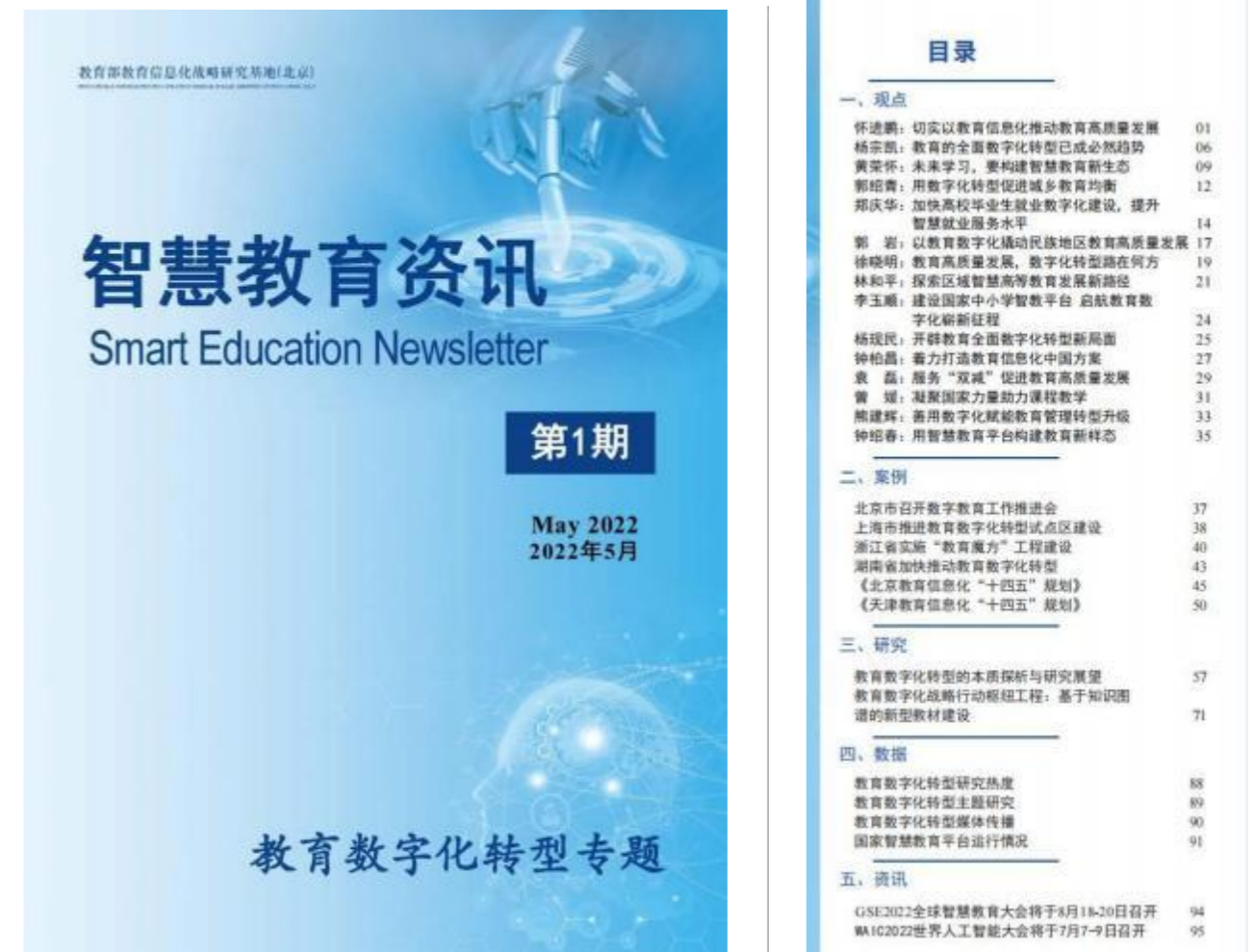
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Publication: Smart Education Newsletter

Abstract:

In order to serve the Strategic Action of Digital Education, promote the construction of "Smart Education Demonstration Zone" and National Intelligent Social Governance Experimental Base (Education), and encourage the social practice of education utilising artificial intelligence, the Education Informatization Strategy Research Base (Beijing) of the Ministry of Education organised the compilation of Smart Education Information, focusing on strategic research covering the development of smart education, the application of artificial intelligence in education, the international comparative study of education informatization and other fields.



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China Social Science Newspaper: Improving the efficacy of Artificial Intelligence Education

Abstract:

Among the factors affecting future education, artificial intelligence (AI) is considered an important force that should not be ignored. With the development and application of the new information technology, profound changes have taken place in the way knowledge is acquired and taught and in educational concepts. Online education under the COVID-19 has shown great potential for educational reform. This paper therefore believes that AI can create conditions for deep learning, and the combination of AI and education should be based on the principle of promoting human development to explore the educational path of "man-machine symbiosis".



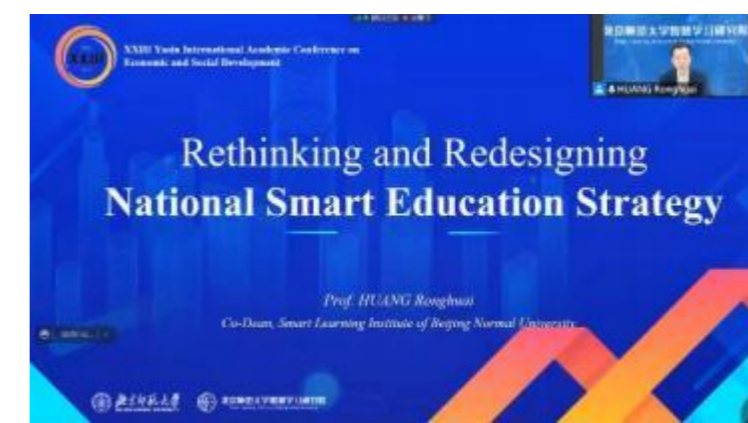
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Cooperation and Communication

Dean Huang was invited to attend XXIII Yasin(April) International Academic Conference on Economic and Social Development

The XXIII Yasin International Academic Conference on Economic and Social Development was held in Moscow, Russia, from April 4 to April 8. As a major annual academic activity in Russian Social Sciences, the conference hosted by Russian National Research University of Higher Economics (HSE) initiated the collecting of proposals.

On the afternoon of April 5 (GMT+8), Ronghuai Huang, Dean of the Smart Learning Institute of Beijing Normal University, and member of the "National Smart Education Strategy Joint Research Program" was invited to the special session with the theme of "Global Innovation in Smart Education" and "Approaches to Measuring Digital School Renewal: Difficulties and Key Areas". Dean Huang first shared China's exploration of smart education from the perspective of Smart Education Demonstration Zones, and then introduced the National Public Service Platform for Smart Education officially launched recently, which integrated four sub platforms, namely, the National Smart Education Platform for Primary and Secondary Schools, the National Smart Education Platform for Vocational Education, the National Smart Education Platform for Higher Education, and the National 24365 College Student Employment Service Platform. These platforms had attracted great attention from teachers and students.



Exclusive Interview



Character: Xiangling Zhang

Q Hello, Ms. Zhang. It is a great honor to invite you to this interview. As an outstanding representative of the post-doctoral team at the Smart Learning Institute of Beijing Normal University (SLIBNU), could you please share your work experience at SLIBNU with us?

A When it comes to this topic, the scene of the job interview comes back to me again. Until now, the warmth and kindness that the interview brought to me still nourish me. During the period of working at SLIBNU, under the guidance of Dean Huang, the other professors of the team and I worked hard to explore the cutting-edge research issues, and at the same time carried out practical empirical research. After I completed the post doc fellowship and left SLI, I got to realize more deeply that SLIBNU is such a wonderful platform which can provide us with a variety of chances. I also hope to have more opportunities to cooperate with and learn more from Dean Huang and other teachers at SLIBNU in the future!

When I was interviewed for the postdoctoral position at SLIBNU, Dean Huang asked me to sit down and he took my CV while pacing around the room. The kindness of the three interviewers greatly encouraged me and helped me relax. When I talked about my schooling experience, Dean Huang asked, "Did you study all the way along from associate degree, bachelor degree to graduate degree, and then Ph.D. after four-year working?" "Yes, teacher." I answered in a low voice. Then he smiled and said, "You must be very hard-working." Hearing these words, the feeling of being seen, recognized, and warmed immediately embraced me—a person with low self-esteem. I thought to myself, "If I get the chance to pass the interview, I will definitely come here!" At the end of December 2017, I was honored to become a post-doctor of SLIBNU. I later knew that Dean Huang works all year round without any holidays. How can I say I have "worked really hard" compared to him? He is my role model!

After I completed the post-doc fellowship and started working in a new place, a colleague asked me where did I work before, I answered, "I stood out from Professor Ronghuai Huang's post-doctoral station at Beijing Normal University." My colleague said: "Good job! Professor Huang is an exceedingly excellent expert in the education technology area!" At that time, I felt even more proud of being a member of SLIBNU, which is such a respectable and prestigious place. Although I

left the station, I still participated in a few projects of SLIBNU, and I am honored to have opportunities to continue to learn from Dean Huang and the other teachers there, and to be charmed by their personalities and inspired by their academic insights.

Q It's know that when you were working at SLIBNU, you were mainly responsible for the research of educational robots. Could you share some experience in the research of the project?

A I remember in the interview with the R&D director of an educational robot company, he said: "only after reading the book *The Next Big Thing: Global Development Status and Trends in Educational Robots* written by Dean Huang, can we be clear about the application scenarios and service objects of educational robots, so as to achieve today's development". Now when retrieving CSSCI papers or the core periodicals relevant to educational robots, we could find that in recent years, there are more research in this field gradually. At this time, I am even more deeply impressed by Dean Huang's sensitivity to technology and forward-looking application of technology in education, and this profound understanding of the frontier has played a significant role in leading the entire industry. Meanwhile, as a team member, carrying out this cutting-edge research under the guidance of Dean Huang makes me filled with happiness!

Q In addition to the cutting-edge application of new technologies in education, SLIBNU also focuses on the practical application of those technologies. We know that you have also participated in the teaching of two courses in the "Yuanzhuo Program" initiated by SLIBNU. Would you please share with us your experience in planning and teaching these two courses?

A Dean Huang has always taught us that "we should speak with substance and evidence". As for previous research on Open Educational Resources (OER) and Open Educational Practice (OEP), educational knowledge map, interactive artificial intelligence reader etc., we combined them all with empirical research. I have two courses on the Yuanzhuo platform which are designed for parents. One focuses on helping parents of young children to teach their kids programming. Parents just need simple props to cultivate children's programming thinking in games. The other is for parents of teenagers. The background we developed this course is that at all children studied at home after the COVID-19 pandemic in 2020, which led to serious parent-child relationship friction. We thought about how could parents communicate with their children more efficiently? How could we help children grow up in a healthier way? Our team designed the course based on the research results in OEP and simultaneously carried out practice and research again. After the course, we also published an SSCI paper. At present, Yuanzhuo program has launched hundreds of courses, and has become a learning platform used by thousands of primary and secondary school teachers in various situations, such as preparing lessons, giving lessons, and flipped classrooms.

After I completed my post-doc fellowship, I started my new job as a teacher at the Beijing Institute of Education. I would like to express my great gratitude for the generous care and help from Dean Huang and other teachers in the SLIBNU. SLIBNU is always my "mother home", my gratefulness is beyond words!