

# Jing Shi Wisdom & Learning

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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



Smart Learning Institute  
WeChat QR Code

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# 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 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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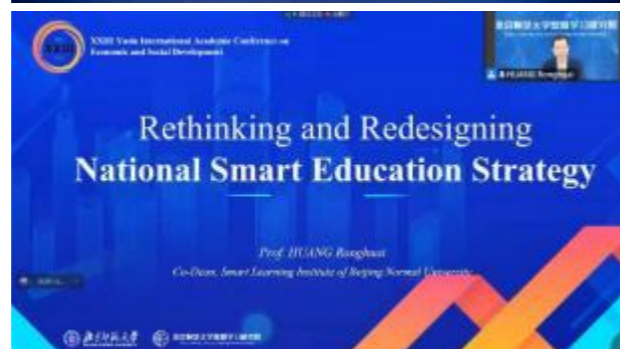
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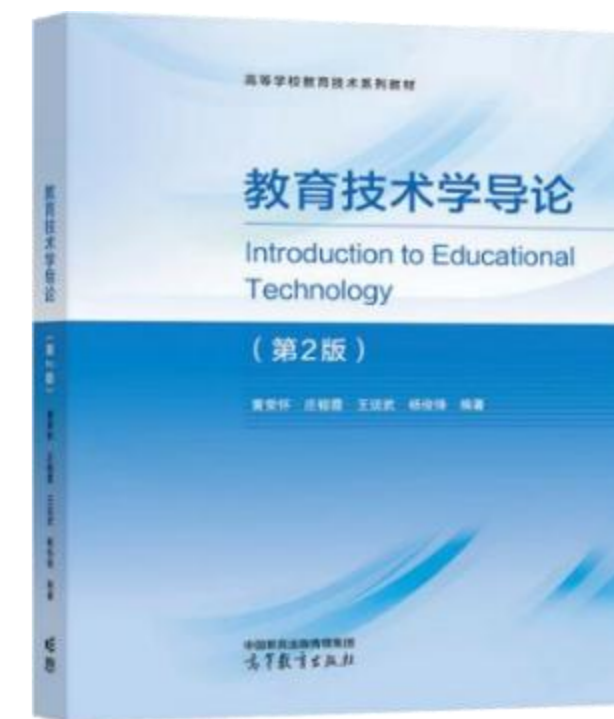
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# Features

## Review of Big Events of SLIBNU in 2022

Jan.

### Yuanzhuo Project Community-based Activities

In January 2022, "Yuanzhuo Project" community-based activities were launched. Youth Artificial Intelligence Innovation Initiatives (Yuanzhuo Project) organized 36 serial community-based activities in total, with 112 experts attending and 7701 people participating via Tencent Meeting. Organized and implemented the "Call for the Outstanding Results of Youth Artificial Intelligence Projects", as well as the academic forum and summer camp on Cross-strait Computational Thinking Education.



Feb.

### The 30th anniversary of China Association for Educational Technology (CAET) and the Educational informatization Conference

On the 30th anniversary of China Association for Educational Technology (CAET) and the Educational informatization Conference, Dean Huang delivered a keynote speech entitled "Analysis of the Development Trend of China's Educational Informatization--on the Four Dimensions of Integrating Science and Technology into Education".

### The series of international webinar "Metaverse and Education"

From February to June 2022, The series of international webinar "Metaverse and Education" were hosted.

Mar.

### "Research on Artificial Intelligence and Future Education Development" outcome report meeting

On March 5, the key educational project of the National Social Science Foundation "Research on Artificial Intelligence and Future Education Development" outcome report meeting was held.

### The 1st and 2nd training sessions of "Excellent Cases of Smart Education"

From March to May 2022, the 1st and 2nd training sessions of "Excellent Cases of Smart Education" were held.

### Yasin International Academic Conference on Economic and Social Development

From April 4 to 8, Dean Huang and members of "National Smart Education Strategy Joint Research Program" were invited to the 23rd Yasin International Academic Conference on Economic and Social Development and presented a report.



### "Future Learning: Creating a New Ecology of Smart Education"

On April 5, Guangming Daily published a signed article by Dean Huang: "Future Learning: Creating a New Ecology of Smart Education".



Apr.

### "Connotation and implementation path of education digital transformation"

On April 6, China Education News published a signed article by Dean Huang: "Connotation and implementation path of education digital transformation".



May.

### Journal of Computers in Education(JCE)

In May 2022, Journal of Computers in Education(JCE) got Q1 ranking in both Education and Computer Science Applications subject categories of SJR 2021, with an index of 1.039 on the Scientific Journal Rankings.

### Report on the Construction Progress of Demonstration Zones of Smart Education

On June 1, The result of “National Smart Education Strategy Joint Research Program”-- Report on the Construction Progress of Demonstration Zones of Smart Education was published.



### “Hybrid Education, Learning and Assessment (Chinese edition)”

On June 18, the book “Hybrid Education, Learning and Assessment (Chinese edition)” was officially released.



### The working group online meeting of NACT “Building China - ASEAN Comprehensive Strategic Partnership: Youth Empowerment in the Digital Era”

On June 21, the working group online meeting of NACT “Building China - ASEAN Comprehensive Strategic Partnership: Youth Empowerment in the Digital Era” was successfully hosted. Dean Huang attended as Chinese chief expert of the working group and delivered a speech.



Jun.

### “The Collection of Outstanding AI Project Achievements of Youth”

On July 23, the defence stage of “The Collection of Outstanding AI Project Achievements of Youth” was rounded off.



### The Smart Learning Environment journal

In July 2022, the Smart Learning Environment journal got Q1 ranking in Education subject category of SJR 2021, and ranked 8th in Editorial Excellence of Springer Nature.

### “E-Library for Teachers”

In July 2022, UNESCO IITE and NetDragon Websoft Holdings(NetDragon) jointly launched the online platform “E-Library for Teachers.



Report on the UNESCO IITE website

Jul.

### The 5th Global Competition of Design for Future Education

On July 22nd to 24th, 2022, the finals of the 5th Global Competition of Design for Future Education(2022 GCD4FE) was held. The competition attracted more than 1,000 college students and 500 primary and secondary school teachers from nearly 20 countries and regions, and produced a number of unique college students' design works, as well as practical teaching cases in primary and secondary schools which are worth promoting.



Aug.

### The 2022 Global Smart Education Conference(GSE 2022)

On August 17th, the List 2022 Smart Education Outstanding Cases was released.

From August 18th to 20th, the 2022 Global Smart Education Conference(GSE 2022) was held. With the theme of "Smart Technology and the Digital Transformation of Education", the Conference invited 254 experts and scholars from 48 countries and 15 international organizations in the fields of education, science and technology and business. The conference was broadcast to the world through the live channels, and more than 8 million people watched it online.



Guests at the opening ceremony

### The Global Smart Education Network(GSENet)

On August 18th, the results from the "National Smart Education Strategy Joint Research Program" were released and the Global Smart Education Network(GSENet) was launched.



The release ceremony of the "National Smart Education Strategy Joint Research Program"

Sept.

### The "Design and Learning" Lecture

In September 2022, the "Design and Learning" lecture at BNU was launched online and onsite.

Oct.

### The Book Introduction to Educational Technology(the 2nd edition)

In October, the book Introduction to Educational Technology(the 2nd edition) was officially released.



Nov.

### "The Smart Education Program" -- Digital Transformation of Education and Smart Education

On November 18th, the Smart Education Program -- Digital Transformation of Education and Smart Education started to broadcast on CETV.

Dec.

### China-CEE Countries Smart Education Research Report

On December 16th, Digital Learning and Transformation in Transforming Education - China-CEEC Smart Education Forum 2022 was hosted. On the Forum, China-CEE Countries Smart Education Research Report was released.



### The 8th Smart Learning Academic Week

From December 17th to 23rd, the 8th Beijing Normal University Smart Learning Academic Week was held.



### "Research on Key Technologies of Behavior Perception and Risk Monitoring for Internet Educational Applications"

On December 24th, the national key R&D project "Research on Key Technologies of Behavior Perception and Risk Monitoring for Internet Educational Applications" was launched.



# The 8th Smart Learning Academic Week

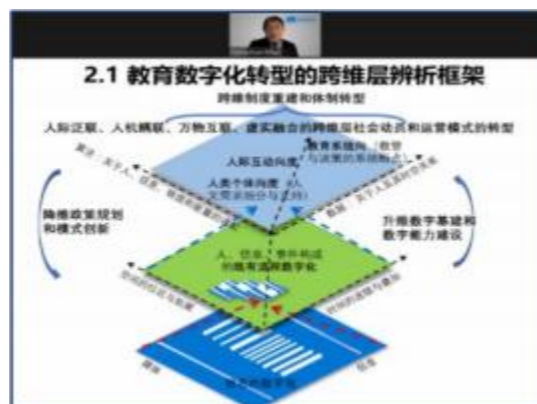
During December 17th to 23th, 2023, the 8th Beijing Normal University Smart Learning Academic Week was successfully held, hosted by Beijing Normal University (BNU), and organized by Smart Learning Institute of Beijing Normal University (SLIBNU) and National Engineering Laboratory for Cyberlearning and Intelligent Technology (CIT). With the theme of AI and Education, it aims to discuss the development of technology and its application in education. The forum was held in the form of ZOOM discussion, and some lectures were innovatively delivered in the form of a combination of digital human, real human and 3D images.

The academic week was broadcasted live via channels. Experts and scholars from international organizations, universities and academic institutions such as UNESCO, Tsinghua University, Zhejiang University, Beijing Normal University, Beijing University of Aeronautics and Astronautics, industry elites from well-known enterprises in the field of science and technology such as Huawei, Netdragon, iFlytek, Ali Cloud and teachers and young scholars working at the forefront of information-based teaching were invited to attend the forum and bring the latest academic research results, technical solutions and teaching practical cases. The discussions and lectures focused on AI and Education, Smart Education Solutions, Metaverse and Education, Information Technology Education, Smart Learning Environment, Future Education and Future Learning.

**第八届 北京师范大学 智慧学习学术周**  
2022.12.17-12.23

**会议议程**

日期	主题
12月17日	对话人工智能与教育
12月18日	共创智慧教育解决方案
12月19日	探秘教育元宇宙
12月20日	乐享信息科技教育
12月21日	构想智慧学习环境
12月22日	描绘未来教育图景
12月23日	设计未来学习



**Fengchun Miao**  
Chief of Unit for Technology and AI in Education, Education Sector, UNESCO

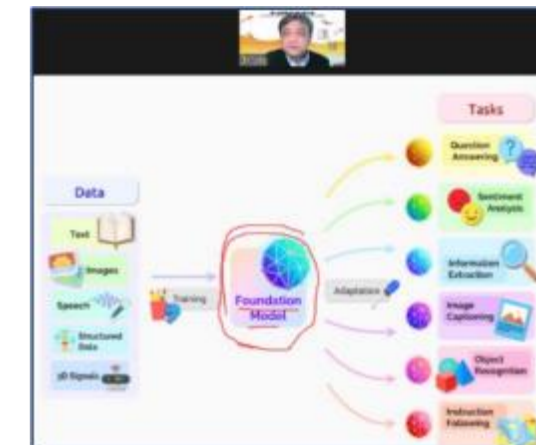


**Tao Zhan**  
Director of Institute for Information Technologies in Education, UNESCO

## Maosong Sun

Professor of Department of Computer Science and Technology, Tsinghua University

introduced the latest progress of natural language processing and the typical applications of smart learning and believes that the large model can significantly improve the performance of all the relevant technical means of smart education.



## Qiang Zhu

Professor of Institute of Artificial Intelligence, Zhejiang University

proposed that the purpose of multimodal representation learning is to dig out the commonalities and characteristics between different modes and generate the hidden vector that can represent the multimodal information. Meanwhile, he also introduced the combination of CV and NLP fields to produce relevant innovative applications.



## Dejian Liu

Co-director of Smart Learning Institute of Beijing Normal University, Chairman of Netdragon

used a combination of real human and 3D images to interpret the concept of edutainment in Netdragon and the layout of education metauniverse. Netdragon built an education market service platform system from hardware, software, platform and resources, deeply integrates cutting-edge technologies such as VR, AR, AI, 3D, big data and metauniverse with education, developed and integrated high-quality global education resources, and established a global K12 education community network and ecosystem.



## Yu Tang

NetDragon Digital Person Rotating CEO

This academic Week innovatively adopted the 3D digital human form to share the theme. Yu Tang introduced the metauniverse organization form of Netdragon Internet enterprise and interacted with the online audience.





**Qian Fu**

Vice President of School of Educational Technology of Beijing Normal University

explained the theory and practice exploration of information technology education under the new curriculum standard, introduces the innovation sources and creative sharing ways of information technology education, and emphasizes the great significance of open source and controllability for information technology education.



**Fan Yu**

Huawei software field scientist

Introduced the application cases of MindSpore in various fields.



**Hong Chen**

Senior Vice President of Netdragon

analyzed the content engineering structure of Netdragon under the help of 3D, virtual reality and meta-universe, and is committed to practical cases of intelligent interactive mode through multimedia courseware.



**Jiafeng Zhou**

Vice President of iFlytek

explained how artificial intelligence technology can help create a regionally tailored education program for the digital transformation of education.

**Jin Xiang**

Director of Maker Workshop, Primary School affiliated to Xi 'an Jiaotong University

introduced the exploration on the construction of information technology curriculum resources under the open source mode.



**Lan Wu**

Leader of the Information Technology Teaching and Research Group of the Second Branch School Affiliated to Renmin University of China

introduced the project design and implementation path of information technology subject under the new curriculum standard of their school.



**Youth Roundtable Forum** is another innovation of this Academic Week, the activity invited international students from Egypt, Serbia, Ghana and other countries, as well as 15 post-doctoral, doctoral and master's students with educational technology professional research and practice background and industry experts. Topics such as the design and application of teachers' teaching tools, AI courseware and future laboratory, E-Library and the construction of Learning Hub were discussed.



Professor Chen Guangju, deputy director of the Council of Beijing Normal University, made a summary of the academic week. This academic week presents the characteristics of diversified guests, multi-academic perspectives, multi-directional thinking, multi-level application, multi-product innovation, diverse content, and well-informed audience. It is hoped that such a strong academic atmosphere can be radiated to more areas of the society, and with the power of knowledge, Promoting the development of intelligent education.

## Important Events

### “The Smart Education Program”

**高端访谈节目**  
**《智慧教育大讲堂》**  
**智慧教育 数字中国**

共同推出：中国教育电视台  
智慧教育示范区创建项目专家组秘书处  
北京师范大学智慧学习研究院  
科大讯飞股份有限公司

通过与**专家学者、教育管理者、一线校长教师**等进行深度对话，探讨可推广的先进经验与优秀案例，形成支撑和引领教育现代化的新途径和新模式，从而探索一条有望解决当下智慧教育发展的可行性路径。

**节目清单**

序号	主题	嘉宾
1	互联网+教育与数字化转型	陈丽、范贤睿、王聘
2	数字化转型与智慧教育	黄荣怀、张宪国、熊秋菊
3	智能技术与智能教育	吴飞、高天
4	主动应对数字化转型新挑战	钟秉林
5	新型教学模式	钟绍春、孙众、曹晓明
6	智能技术促进教师教育发展	桑国元、闫寒冰、方海光
7	人工智能助推教师发展	余胜泉、顾小清、段元丽
8	数字化学习与评价创新	吴砥、蔡可
9	师生数字素养与技能提升	熊璋、樊磊
10	网络学习空间创新应用	王珠珠、郭炯
11	智慧学习环境建设与应用	武法提、周跃良、杨俊达
12	智慧校园与智慧教室的建设与应用	李葆萍、王运武、曲飞
13	数字化资源与数字化教材	李玉顺、柯清超
14	人工智能教育、创客教育	尚俊杰、傅寿
15	教育数字化治理	童莉莉、吕明杰、李兵
16	智慧教育可持续发展机制	吴颖惠、缪雅琴
17	科技赋能智慧教育	陈光巨、吴文峻、李华
18	大数据在教育中的应用	黄磊、杨现民
19	虚拟现实与教育元宇宙	刘革平、蔡苏
20	农村教育与智慧乡村	郭绍青、曾晓东
21	智慧教育国际发展趋势	薛二勇、杨俊锋

11月18日起 每晚20:45播出 敬请关注  
中国教育电视台一频道  
中国教育网络电视台  
育见新闻融媒体矩阵

同步播放

On November 18, The Smart Education Program "Digital Transformation of Education and Intelligent Education", jointly launched by China Education Television and the Secretariat of the Expert Group of Smart Education Demonstration Zone Creation Project and the Smart Learning Institute of Beijing Normal University, was broadcast on China Education Television, with a total of 21 episodes and 50 experts talking about smart education.

Dean Ronghuai Huang was invited to record the second program to discuss the development path, characteristics and how to promote the digital transformation of education in China. He believes that the concept of digital transformation comes from education information. The development of education information in China has a history of more than 20 years, and its development process is divided into three stages. At present, it is in the stage of system reform and the ultimate goal is to realize smart education.



Professor Guangju Chen was also invited to participate in one of the programs to discuss the current situation of technology-enabled smart education, its application scenarios and the new requirements for teachers' teaching under this background. He believes that after the technology-enabled smart education, teachers should cultivate themselves from five aspects: one is to become an embracer of technology, the other is to become a lifelong learner, the third is to become a multidisciplinary knowledge, the fourth is to enter the school as a designer, and the fifth is to cultivate the soul.



## The national key R&D project “Research on Key Technologies of Behavior Perception and Risk Monitoring for Internet Educational Applications”

On December 24, the demonstration and launch meeting of the implementation plan of the 2022 national key research and development Plan project "Research on Key Technologies of Behavior Perception and Risk Monitoring of Internet Educational Application" (Project No. : 2022YFC3303500), which is undertaken by Beijing Normal University, was held in the form of offline and online combination. The project is led by Associate Professor Lili Tong from the Faculty of Education, Beijing Normal University and the National Engineering Research Center for Intelligent Technology and Application of Internet Education. It is jointly undertaken by 9 institutions including Education Technology and Resources Development Center of Ministry of Education (Central Audio-Visual Education Museum), China Academy of Information and Communications Technology, Beijing Institute of Technology, Southwest University, Beijing University of Posts and Telecommunications, Fujian Huayu Education Technology Co., LTD., iFlytek Co., LTD., Shenzhen Longhua District Education Science Research Institute. The meeting was chaired by Xiaojuan Lin, deputy director of the Scientific Research Institute of Beijing Normal University.



## China-CEEC Smart Education Forum 2022 was hosted

On December 16, the "2022 China-CEEC Smart Education Forum" hosted by Beijing Normal University and co-hosted by the University of Belgrade in Serbia was successfully held online. The international forum is one of a series of activities to build an education discipline community under the framework of the Association of Higher Education Institutions of China and Central & Eastern European Countries. Experts from China and Central & Eastern European countries held in-depth discussions on digital learning and transformation in education transformation, and discussed the direction of future cooperation.

Professor Ronghuai Huang, Chair of UNESCO AI Education and Director of Smart Learning Institute of Beijing Normal University (SILBNU), introduced the cooperation between the SILBNU and Central & Eastern European countries in the field of smart education. He stressed the decisive role of science and technology in the reform of education and looked forward to more academic cooperation between the delegates and the Institute.

Rongxia Zhuang, Associate professor of Smart Learning Research Institute of Beijing Normal University, on behalf of the Joint Virtual Laboratory of Future Education, released two important academic achievements, "China-CEE Intelligent Education Research Report" and "Report Collection of 2021-2022 China-CEE Intelligent Education Academic Conference (Abstract Edition)".

The book "Smart Education in China and Central & Eastern European Countries" was co-authored by experts from China and Central & Eastern European countries over the course of two years. It will soon be officially published by Springer Publishing House. The report aims to explore the trends of information and communication technology in education, introduce innovative teaching methods and strategies in the digital age, and compare the development of smart education between China and Central & Eastern European countries.



## 15 Yuanzhuo Project Community Activities & Call for Outstanding AI Innovations by Youth

From October to December 2022, Yuanzhuo Project successfully held 4 community activities, 1 themed activity of "Reading Month in May" and 4 seminars of information Technology teaching Practice "Assisting Plan". A total of 1,563 people attended the event online and 9,922 people watched the event live. It invited expert judges to review the shortlisted materials, organized, modified and improved the 13 shortlisted cases of the cultivation project application and selection (the third stage) of the project of "Call for Outstanding AI Innovations by Youth". The annual review document of Yuanzhuo Project 2022 was completed, and the content and format of the collected cases were standardized.

The image displays three promotional posters for Yuanzhuo Project community activities. The left poster, titled 'Exploring the Mystery of "Digital Man" Explanation Videos' (元卓学堂第二十五期), features a guest named Chen Taige (陈泰歌), Tencent AI Product Manager. The middle poster, titled 'Multidimensional Analysis of Science and Technology Innovation Projects' (元卓学堂第34期), features a guest named Bi Xin (毕欣), a national-level science teacher. The right poster, titled 'How to Lead a Primary and Secondary School Innovation Project' (元卓学堂第30期), features a guest named Shen Yanyan (沈彦彦), a national-level science teacher. Each poster includes a QR code for registration and contact information for Tencent WeChat (677-4412-3805).

## Project News

Up to now, the project team of China Internet Educational Application Evaluation Research: Methods, Practices and Prospects has evaluated educational apps, written and released reports, and completed the first draft of the book with more than 128,000 words and 234 pages in total. In December, the project team modified the pictures, question sheets and pictorials feedbacks from the publishing house, communicated with the authors in charge of each part of the manuscript, supplemented or modified the problems, sorted out and modified the contents comprehensively and submitted them to the publishing house.

—Submitted by **Yanli Jiao**

The project team of the Arab Joint Laboratory of Wisdom Education drafted and completed the "5i" work plan according to the work objectives of the teacher project, and invited relevant experts to put forward suggestions for optimization. The OMO and Smart Campus Guide Project team developed the OMO and Smart Campus Guide based on the national Smart Education framework and completed the first draft in December. The iSTAR project intends to explore The Second Teacher, Avatar Coches and Robotic Tutors, three typical scenes of cooperative teaching between artificial intelligence and teachers. In addition, the project team has completed and reported the three-year work plan of iSTAR.

—Submitted by **Tingwen Zhang and Ahmed**

The project team of "White Paper on Smart Education of China and Central & Eastern Europe" completed the final proofreading of all chapters according to the requirements of Springer, and organized the authors of each chapter to make the final confirmation of the proofreading chapters.

—Submitted by **Hao Chen**

The project team of the Southeast Asian Joint Laboratory on Informatization in Education has developed a recommended list of participating/cooperating education institutions in Southeast Asian countries in the Global Alliance for Smart Education (GSENet). We will assist Southeast Asian countries to bid for the Annual meeting of the Global Smart Education Environment Association 2023 (ICSLE 2023), support the United Nations Center for Agriculture and Education to jointly hold the Forum on Education for Rural Transformation and the Youth Forum with Thai partners, and maintain and expand communication channels and cooperative relations with Southeast Asian countries. Focusing on core affairs, the project team will complete the 2022 performance report of the Institute's Joint Laboratory for Education Informatization in Southeast Asia and formulate the 2023 work plan, including meetings, research, training and collaborative support.

—Submitted by **Xinjian Qi**

➤ In this quarter, the secretariat of the expert group of the "Smart Education Demonstration Zone" project focuses on the translation of case books on regional construction, research results, solutions and school practices. So far, the English translation and proofreading of two case books have been completed and delivered to Springer Publishing House to communicate the publishing process.

—Submitted by **Yongzhong Wang**

➤ According to the publishing requirements of the blue Book, the project team of "Rural Education Development under the Strategy of Education Digitization" proofread the manuscripts submitted by experts and the cases of rural education informatization. At the same time, the project team wrote the major events of rural education informatization through literature and policy research.

—Submitted by **Yongzhong Wang**

➤ According to the requirements of Wuhou Education Bureau and Longjiang Road Primary School leaders, the construction project team of Smart Campus Pilot School in Wuhou District of Chengdu sorted out the project acceptance materials, completed the implementation of the smart campus construction plan and related projects, improved the research framework of "digital portrait" between teachers and students, polished and compiled 20 excellent class examples and 3 typical cases. The relevant project results have been affirmed by the relevant leaders of Longjiang Road Primary School, and have passed the project acceptance review of Wuhou Education Bureau. At the same time, both parties have communicated with each other about the settlement of the balance of the project.

—Submitted by **Yongzhong Wang**

➤ The project team of information technology teaching materials, supporting resources and training for senior high school students in Cambodia completed the contract signing with the publishing house. According to the new style and framework template, I have finished the compilation of the syllabus of 12 lessons in the textbook. Now the project team has finished the compilation of the first draft of the second chapter of the textbook.

—Submitted **Youjie Yao and Xinjian Qi**

➤ The project team organized experts to write the White Paper on the Development of Global Educational Robots according to the existing structure and content requirements. According to the five fields of educational robot application, 100+ English literatures are analyzed and the main contents are sorted out and presented. The project team describes typical algorithms, products and problem solving types, and presents them separately with terminology, algorithms, technologies and products as clues.

—Submitted by **Youjie Yao**

➤ "Information Technology Subject Examination Proposal Guide Based on Curriculum Standards of Ordinary High School Subjects" The project team sorted out video and audio recordings of the meeting for soliciting opinions, formed the meeting minutes, formed a list of opinions according to the opinions of teachers attending the meeting, replied the opinions and explained the next work plan. Meanwhile, the project team sorted out the written reports submitted by the 12 teachers and formed two analysis reports, which were discussed and confirmed by the experts in the group and then submitted to the head group. On December 25, the general group issued modification suggestions, and the experts in the group discussed collectively. On December 28, the group submitted the minutes of the meeting, the list of comments and the latest revised draft.

—Submitted by **Youjie Yao**

## Books & Articles

### Accelerating the digital transformation of education and promoting the high-quality development of schools — Ronghuai Huang

**Abstract:** Since the 18th National Congress of the Communist Party of China, the cause of educational informatization has achieved a leapfrog development and historic breakthrough, and its international influence has increased significantly. Currently, it is in a crucial period of digital technology and education and teaching integration innovation. The digital transformation of education is a special stage of education informatization, which should be realized from the start, application and integration of digital technology, to the establishment of digital consciousness and thinking, the cultivation of digital ability and methods, the construction of intelligent education development ecology, and the formation of digital governance system and mechanism.

**Key words:** Digital Transformation of Education; Education Informatization; School Digital Transformation; High-quality Development

➤ Schools should actively explore and plan clear implementation paths while transforming education teaching concepts and deeply understanding the connotation and significance of education digital transformation. Focusing on the fundamental task of cultivating virtues and educating people and the goal of high-quality education development, schools can promote digital transformation from the following aspects:

- I. strengthen school information infrastructure
- II. strengthen the innovative application of high-quality digital resources
- III. Comprehensively improve teachers and students' digital literacy and skills
- IV. Construct a new model of digital classroom teaching
- V. Innovate digital evaluation technology and means
- VI. Construct a collaborative teaching and research network integrating online and offline

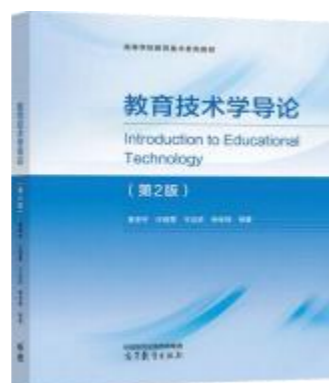


## Introduction to Educational Technology (Second Edition)

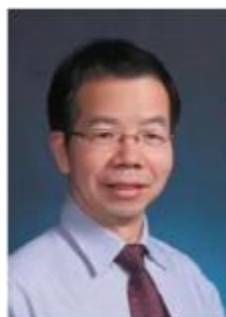
From the perspective of two-way enabling of science and technology and education, this book sorts out the research questions, research contents, research methods and practice scenes of educational technology through a comprehensive analysis of the theoretical research, technological development and application practice of educational technology at home and abroad, and constructs a new content system.

Based on the educational characteristics of the intelligent era and the development of educational informatization in our country, the book combs the development history, research fields, basic theory and cutting-edge knowledge of educational technology, and helps students to grasp and understand the basic characteristics and development direction of educational technology.

In view of the characteristics of modern students with high acceptance of technology and strong ability to use technology, the book integrates the concept of "technology promotes learning", which encourages students to feel the learning and teaching practice in the technology-rich environment during the learning process, understand the status and role of educational technology in educational reform and teaching practice, and enhance students' sense of identity for the major. This book analyzes students' own learning methods and strategies, cultivating students' autonomous learning ability, enhancing students' sense of teamwork, stimulating students' curiosity about technology enabling education, and improving students' ability to explore and solve problems. Based on the basic concepts of the textbook, the book has produced a 7-minute concept learning document, concept explanation video and extended reading resources to provide support for students' learning.



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