

Jingshi

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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



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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_x0002_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

Chairman of the Board, Executive Director of NETDRAGON, The Special Allowance Expert in State Council, Co-Dean of Smart Learning Institute of Beijing Normal University, 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 tatus and Trends in Educational Robotics



Prototype of Educational Robotics



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- ◆ Guangxi Science and Technology Bureau Construction and Application of the Innovative Design Method System of "Internet +" Educational Service Project
- ◆ 2021 Global Smart Education Conference
- ◆ "Sciences of Knowledge" Course
- ◆ The construction project of "National Engineering Laboratory of Intelligent Technology and Application of Internet Education" passed the acceptance inspection
- ◆ The 25th Global Chinese Conference on Computer Education Applications
- ◆ The Asian-Arab International Forum on Inclusive Education
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- ◆ 2021 China and Central and Eastern European Countries Smart Education Forum
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7th Smart Learning Academic Week

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- ◆ Live Class of Yuanzhuo Project | CEO of Random Number--the New Development of AI
- ◆ Understand AI | "Wisdom Learning Hall"


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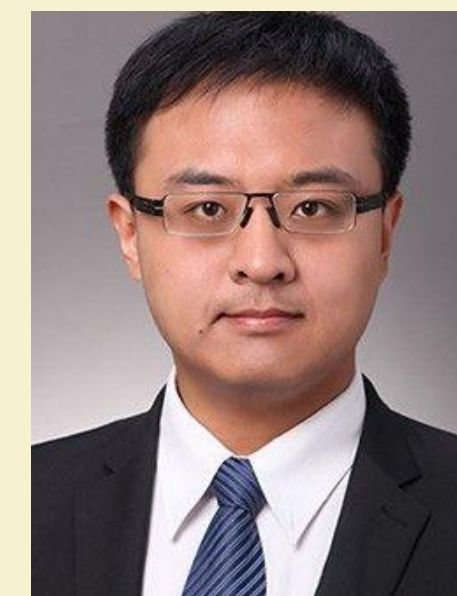
- ◆ "An Overview of Education Development in the Arab Region" was published officially



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 Hongyu Chen



2021 Review of SLI' s Major Events

Major Events

"The Future Education of China and the Arab Region during the post-COVID-19 era" International Webinar

On January 20, the meeting discussed the current situation of education informatization in various countries, shared practical experience of education informatization during the epidemic period, and looked into the new ways of cooperation and development on education informatization in the post-COVID-19 era.



"Knowledge Map for Basic Education" Seminar

On May 24, the conference discussed how the knowledge map for basic education can play a role in the field of Internet intelligent education for open and personalized learning, and released the "Basic Education Knowledge Service Platform".

Guangxi Science and Technology Bureau Construction and Application of the Innovative Design Method System of "Internet +" Educational Service Project



The project was concluded in July. Through in-depth research and modeling, this project developed innovative design tool prototype, completed 5 software patents application, innovative design methods platform development and other objectives. The project results were promoted and applied to more than 100 colleges and universities nationwide.

2021 Global Smart Education Conference

The conference was launched on August 18. Focused on the future of learning and education. It conducted in-depth discussion around smart technology for education in the future, the promotion of education equity and balance by intelligent technology, strategic synergy and sustainable development of global smart education, "Internet + education" and other new normalcies during the pandemic, so as to explore the ways of the future development of the smart education with an international vision.



" Sciences of Knowledge " Course in BNU

This course defines knowledge of different areas and explores and discusses the basic ideas and concepts in specific fields and the relationship between them from the perspective of knowledge science, especially thinks about virtual teaching in the era of artificial intelligence.



The construction project of "National Engineering Laboratory of Intelligent Technology and Application of Internet Education" passed the acceptance inspection



On September 10, the National Engineering Laboratory of Intelligent Technology and Application of Internet Education completed the tasks in the preparation stage with remarkable achievements, built a top-ranking scientific research environment for intelligent technology and application of internet education in China. The acceptance expert panel unanimously agreed that the laboratory passed acceptance, and suggested that it should be incorporated into the new sequence of national engineering research centre for further construction.

The 25th Global Chinese Conference on Computer Education Applications

On September 11, Dean Huang stressed the importance of artificial intelligence to education in the smart era and post-COVID-19 era, and put forward three expectations: The first is to understand the mechanism of computer education application; the second is to clarify the key problems in computer education that the Global Chinese Computer Education Application Conference will solve; the third is to create the collaborative development mechanism of research, production and learning in computer education.



The Asian-Arab International Forum on Inclusive Education



On 29 November, the forum shared the achievements of Asia and the Arab region in promoting inclusive education, and introduced practical cases of international cooperation in inclusive education promotion.

2021 Global Future Education Design Competition

From December 18 to 20, the competition themed "Inclusive education" was sponsored by Beijing Normal University and jointly organized by universities, research institutions, student groups and well-known enterprises at home and abroad. After fierce competition, for the teachers track, a total of 22 teams won the first, second and third prizes; for the students track, a total of 12 teams won gold, silver, bronze award and honorable mention.



2021 China and Central and Eastern European Countries Smart Education Forum

On December 20, the forum shared the status and achievements of smart education development in various countries, and discussed the plans of future cooperation.

The 7th SLI's Smart Learning Academic Week



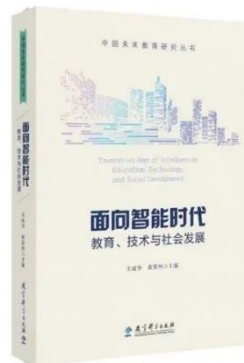
The initial meeting of "Calling for Outstanding Youth Artificial Intelligence Innovation Initiatives"

From December 27 to 31, the Academic Week invited experts, scholars and representatives from universities and enterprises, and explored the cutting-edge theories and practices of smart education, educational design and knowledge science.

Academic Achievements

Books & Reports: Towards an Age of Intelligence: Education, Technology and Social Development

This book examines future education in the context of times, and argues that the intelligent age is the basic starting point of future education research and practice, therefore the exploration of future education should be based on the frontiers of educational development in the intelligent age.



《Science Education in Countries Along the Belt & Road: Future Insights and New Requirements》

The book invites science education experts from 29 Belt and Road countries and introduces the current state of science education in their countries and the new requirements of the rapid development of information technology.

An Analysis of Information-based Classroom Teaching Behavior

This achievement was released at the "Digital Society Sub-forum of the 4th Digital China Development Summit" on April 26. It is jointly developed by the Smart Learning Institute of Beijing Normal University and the scientific research team of NETDRAGON, and has positive reference value for promoting the deep integration of information technology and teaching.



An Overview of Education Development in the Arab Region

This book was released on November 3rd. The aim of this book is to present a comprehensive picture of the education development in the Arab region, and demonstrate opportunities and challenges faced by Arab countries in terms of education development by collecting and analyzing data from international organizations and ALECSO interactive databases.



"2021 China Internet Education Product Evaluation and Analysis Report" and the "Internet Education Product Evaluation and Analysis Cloud Platform"

The two achievements were released on August 20. They focused on the combination of manual evaluation, machine evaluation and public opinion analysis, evaluate and analyze 60 typical educational apps from 7 dimensions, such as platform support, personal privacy and data security. It aims to facilitate the supervision and governance of educational apps and the promotion of the orderly and healthy development.



Awarded achievements : “The Theory and Practice of Informatization promoting the Sharing of Quality Educational Resources”

This book is a major achievement of "Research on Informatization Promoting Sharing of High Quality Educational Resources"((ACA120005), which is a 2012 Key Pedagogy Project in the 12th Five-Year Plan of China National Social Science Foundation. And it won the Second Prize of the Sixth National Award for Outstanding Achievements in Educational Scientific Research of the Ministry of Education.



“Design and Learning” Course

Exploration of innovative talent training mode for the Intelligent era -- "Design and Learning" course construction, won the first prize of Higher Education Teaching Achievement Award of Beijing Normal University. In 2021, this course adopts the "Project-based Learning (PBL)" method. On the lecture, students can understand the characteristics of future education, the process of design thinking, as well as some new technologies and tools. And they will complete corresponding works under the joint guidance of university teachers and experts from enterprises.



Paper Published:

1. A Tlili, F Altınay, Z Altınay, Y Zhang. Envisioning the future of technology integration for accessible hospitality and tourism. *International Journal of Contemporary Hospitality Management*
2. A Tlili, D Burgos, F Altınay, Z Altınay, R Huang, M Jemni. Remote Special Education during COVID-19: A Combined Bibliometric, Content and Thematic Analysis. *2021 International Conference on Advanced Learning Technologies (ICALT)*, 325-329
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4. A Tlili, S Hattab, F Essalmi, NS Chen, R Huang, M Chang, D Burgos. A Smart Collaborative Educational Game with Learning Analytics to Support English Vocabulary Teaching. *International Journal of Interactive Multimedia & Artificial Intelligence* 6 (6)
5. A Tlili, J Zhang, Z Papamitsiou, S Manske, R Huang, HU Hoppe. Towards utilising emerging technologies to address the challenges of using Open Educational Resources: a vision of the future. *Educational Technology Research and Development* 69 (2), 515-532
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7. Ahmed Tlili, Mouna Denden, Saida Affouneh, Soheil Hussein Salha, Zhenyu Cai, Mohamed Jemni, Aras Bozkurt, Ronghuai Huang, Lixin Zhu. Understanding Arab Students' Behavioral Patterns in an Online Course: An Explanatory Study Based on Hofstede's National Cultural Dimensions. *Sustainability* 13 (22), 12426
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11. H Wang, A Tlili, JD Lehman, H Lu, R Huang. [Investigating feedback implemented by instructors to support online competency-based learning \(CBL\): a multiple case study](#). *International Journal of Educational Technology in Higher Education* 18 (1), 1-21
12. Ö Sakallı, A Tlili, F Altınay, C Karaatmaca, Z Altınay, G Dağlı. The Role of Tolerance Education in Diversity Management: A Cultural Historical Activity Theory Perspective. *SAGE Open* 11 (4), 2158244021106083

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14. H Wang, A Tlili, X Zhong, Z Cai, R Huang. The impact of gender on online learning behavioral patterns: A comparative study based on lag sequential analysis. *2021 International Conference on Advanced Learning Technologies (ICALT)*, 190-194
15. R Huang, H Wang, H Lu, B Gao, Z Li, A Tlili. Technology Trends, Digitalization, and Their Impact on the Economy and Society. *Reimagining Digital Learning for Sustainable Development: How Upskilling, Data Analytics, and Educational Technologies Close the Skills Gap, 2021*
16. R Huang, H Wang, H Lu, B Gao, Z Li, A Tlili. Lessons from Two Transformational EdTech Initiatives in China. *Reimagining Digital Learning for Sustainable Development*, 184-194
17. D Burgos, A Tlili, A Tabacco. Radical Solutions for Education in a Crisis Context: COVID-19 as an Opportunity for Global Learning. *Lecture Notes in Educational Technology. Lecture Notes in Educational Technology*
18. MA Ashraf, M Yang, Y Zhang, M Denden, A Tlili, J Liu, R Huang, D Burgos. A Systematic Review of Systematic Reviews on Blended Learning: Trends, Gaps and Future Directions. *Psychology Research and Behavior Management* 14, 1525
19. S Wang, A Tlili, L Zhu, J Yang. Do playfulness and university support facilitate the adoption of online education in a crisis? COVID-19 as a case study based on the technology acceptance model. *Sustainability* 13 (16), 9104
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21. R Huang, A Tlili, H Wang, Y Shi, CJ Bonk, J Yang, D Burgos. Emergence of the Online-Merge-Offline (OMO) Learning Wave in the Post-COVID-19 Era: A Pilot Study. *Sustainability* 13 (6), 3512
22. D Burgos, A Tlili, A Tabacco. Education in a Crisis Context: Summary, Insights and Future. *Radical Solutions for Education in a Crisis Context*, 3-10
23. M Denden, A Tlili, D Burgos, M Jemni, R Huang, F Essalmi, TW Chang. Framework for Teacher Support During Remote Teaching in a Crisis: COVID-19, as a Case Study. *Radical Solutions for Education in a Crisis Context*, 147-161
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29. Rongxia Zhuang, Wei Zhou, Huanhuan Wang. Artificial intelligence is reshaping the learning environment[J]. Educators. 2021(23)
30. Junfeng Yang, Gaojun Shi, Rongxia Zhuang, Yunwu Wang, Ronghuai Huang. 5G+ Intelligent Education: Education Reform based on intelligent Technology [J]. China Electronic Education. 2021(04)
31. Yunwu Wang, Rongxia Zhuang, Yiwen Chen, Tengteng Wang. Construction of a new generation of smart campus in 5G Era [J]. Chinese Medical Education Technology. 2021(02)
32. Peng Chen, Ronghuai Huang, Zhiying Nian. Research on the Practice of "golden Course" for innovative talents training: From the perspective of design thinking [J]. China Audio-visual Education,2021(2):75-82.
33. Peng Chen, Ronghuai Huang. The Path and Strategy of Design Education: A New Perspective of innovative talent Training [J]. Research on audio-visual education,2021,42(3):18-26.
34. Lele Zhang, Haijun Zeng. Case study on the path of establishing smart Education Demonstration area in China [J]. Modern Educaational Technology,2021,31(9):71-77.
35. Jihong Li, Qingqing Wan, Xiaojing Lu, Lan Yang, Haijun Zeng. The development direction and Suggestion of education informatization for modernization -- Policy thinking triggered by "China's Education Modernization 2035" [J]. Distance Education in China,2021(4):21-30.
36. Xuefeng Wei, Qiang Wang, Haijun Zeng, Yang Shen. Innovation and Development of multilingual information processing technology in the Intelligent Age -- Interview with Professor Ushouer Slamou, Academician of Chinese Academy of Engineering [J]. Audio-visual education research,2021,42(10):25-30.

Cooperation and Communication

The Southeast Asian Education Ministers meeting

On January 28th, Dean Huang's speech was entitled "Equipping Teachers with ICT Skills for 'New Normal' of Education -- What we learnt from schools during COVID-19".

The Mapping AI Curricula - Preparation Forum on AI Curricula Development organized by UNESCO and delivered a speech

On May 7th, Dean Huang's speech was entitled "Preparing AI Literacy & Skills for the Young Generation".

Huawei Global Smart Education Summit

On July 7th, Dean Huang's speech was entitled "The Announcement of Joint Research on the White Paper on Smart Education in China and CEECs".

The China Internet Conference

From July 13 to 15, the theme of the conference was "New Stage, New Concept, New Pattern -- Internet leading the new development of digital economy". Dean Huang shared the lecture with the title of "Situation Analysis of Smart Education Service Industry -- Re-examining Industrial Development and Education Informatization".



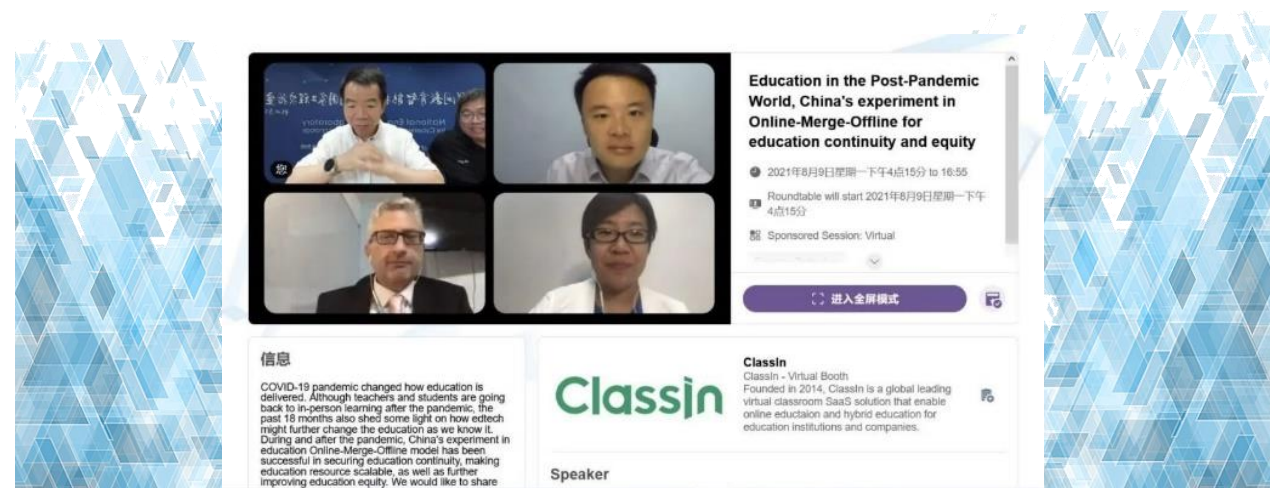
The International Forum of Thailand Fair Education Fund

On July 23rd, Dean Huang attended the forum and delivered a speech, sharing China's experience in flexible teaching.



The ASU+GSV Global Education Technology Summit

On August 9th, Dean Huang delivered a keynote speech at the theme conference "Education in the Post-COVID-19 World: Experiments on continuity and equity in online and offline integrated Education in China".



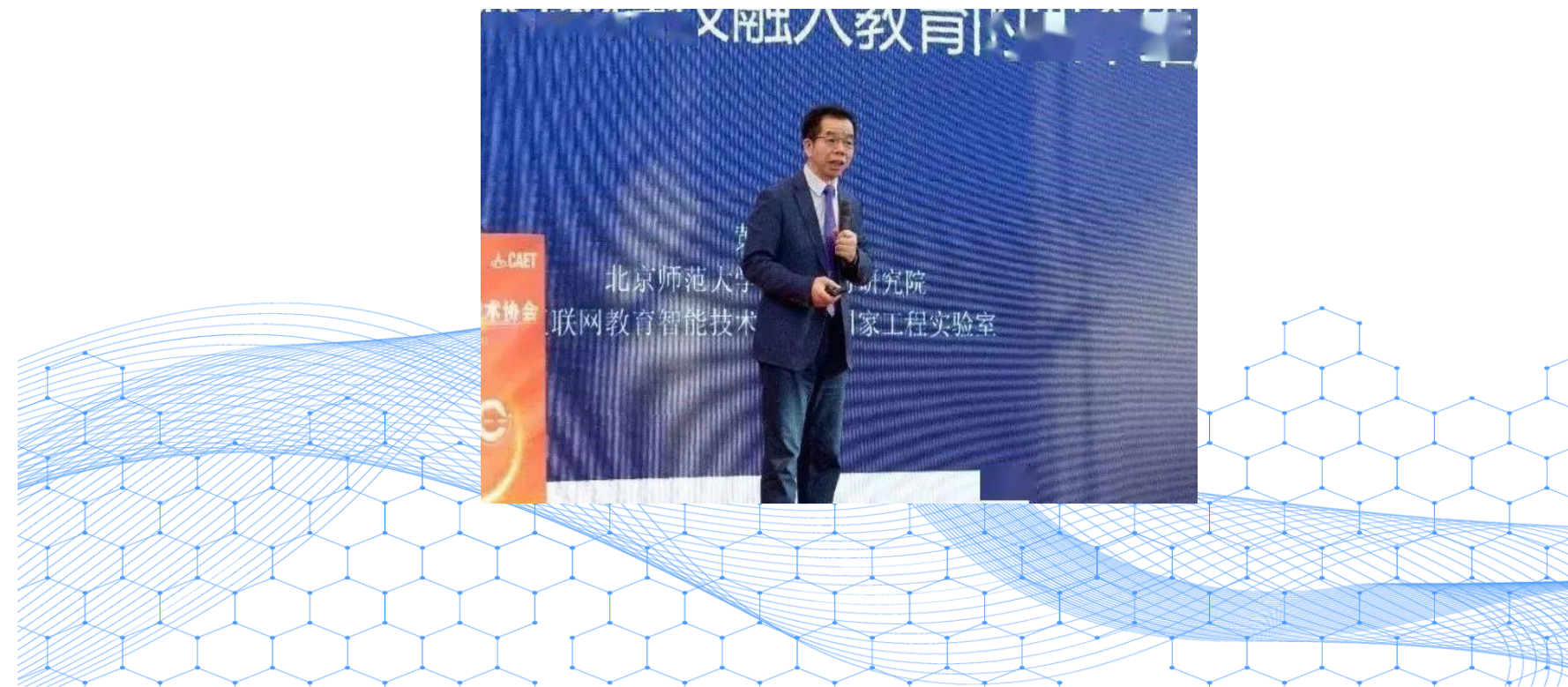
The 6th Eco-Connect Europe Conference of Huawei

On October 29th, Dean Huang delivered an online speech titled "Developing Smart Education with Public Services for Education Agenda 2030".



The 30th Anniversary of China Association of Education Technology and the conference on Education Informatization=

On December 19, Dean Huang delivered a speech on the theme of "Analysis of the Development Trend of China's Education Informatization -- four dimensions of integrating science and technology into Education".



2021 Global Future Education Design Competition Final

The final of "2021 Global Future Education Design Competition" was successfully held at Beijing Normal University from December 18 to 20, 2021, Beijing time. The competition, themed "Inclusive education", was sponsored by Beijing Normal University and jointly organized by universities, research institutions, student groups and well-known enterprises at home and abroad. Since its launch on June 1st, the competition has attracted students from more than 100 universities and teachers from more than 100 primary and secondary schools from China, the United States, the United Kingdom, Italy, Japan, South Korea and other countries to apply for the competition, covering more than 10 countries and regions.



Group photo of the
Opening ceremony guests and competition mentors

This competition has two respective tracks for school teachers and for college students. It hopes to demonstrate how global primary and secondary school teachers describe the future education in teaching by collecting cases of global primary and secondary school teachers. It also designs adequate and effective solutions for future education from the perspective of global college students.

The award-winning works cover different disciplines and fields: there are interdisciplinary comprehensive curriculum design focused on the Belt and Road Initiative, and also teaching cases carried out in the context of the pandemic; there are concerns about the shortage of educational resources for rural students, as well as teaching programs designed to meet the needs of special children.

Dean Huang of SLIBNU stated that the competition aims to study how to combine design and education. And through the integrity and application prospects of the designing works, we can say that this competition's result is fruitful. In the future, the competition will further enhance and deepen international cooperation, extend the field of topic selection and try to publish the results into a book, so as to continuously expand the international influence of this competition.



Closing Ceremony guests and competitors group photo

Deputy Secretary Li Xiaobing of BNU pointed out that Beijing Normal University has always taken "education innovation" as one of the pillars of its development and attached great importance to future education design.

Vice president Zhou Zuoyu of BNU stated that the University hopes to build this platform for training and exchange of innovative design talents, gather the educational innovation achievements of different countries and schools, and mobilize the forces of education, science and technology, and design to continuously optimize the achievements.

The Minister of the UNESCO IITE, Mohamed Jemni believed that digital technology has a great role to play in the future of education. With the outbreak of COVID-19, countries can continue their teaching activities only if they have the support of technology. The fourth industrial revolution, the development of blockchain, cloud computing and other technologies are bound to bring great promotion to education in the future.

Keiichi Kawate, vice president of Tokyo Gakugei University, said that the competition seeks innovative educational solutions through interaction between and positive thinking among students all over the world.

In the future, we expect more teachers and students at home and abroad participate in educational design and innovation, to explore the development direction together.



Xiaobing Li, deputy Party secretary of Beijing Normal University



Zuoyu Zhou, vice president of Beijing Normal University



Mohamed Jemni, Head of the Department of Information and Communication Technology, Arab UNESCO



Keiichi Kawate, vice president of Tokyo Gakugei University

Teachers' track

During the road show for primary and secondary school teachers, the judge team made professional and detailed comments on 23 cases of primary and secondary school teachers according to the five evaluation criteria of the competition (problem awareness, innovative spirit, application prospect, ubiquity and social responsibility).

Yan Dong, professor from the Faculty of Education of BNU pointed out that future teachers should devote themselves to cultivating future learners, integrate design concepts and elements into teaching design, and think about global competition and cooperation from a global perspective.



Expert of teachers' track making comments



The competition mentor representatives and the winning players representatives giving speeches

Students' track

In the 48-hour educational Design Marathon, the 18 finalists of the undergraduate track made unremitting efforts to improve their design works under the real-time guidance of mentors. During the road show, expert judges commented on each team's performance.

Weizu Song, the founder of Beijing Design Society and a chief judge of the competition, commented that the contestants had a very accurate grasp of the universal issues of education, and further research is required to improve the practicality of their works.

Ronghuai Huang, dean of SLI BNU commented that the contestants' choice of topics and methodology are appropriate, which can improve their integration with emerging technologies. While the works need to be improved in terms of text presentation.



48H online instruction with mentors



Experts of undergraduates' track giving comments

The awards ceremony praises the results

Dejian Liu, the chief judge of the competition, announced the final result: a total of 22 teams at the primary and middle school teachers track won the first, second and third prizes; a total of 12 teams at the college track won gold, silver, bronze award and honorable mention.

Winners of students track

| Award | Title of Work | Team name |
|-------------------|--|---------------------------------|
| Gold Award | X-Space-Inspire rural students with Design Thinking | To the North and South |
| Silver Award | Mind Forest | Heart&Star |
| | RecMooc——Learning paths recommender | Winy Mind |
| Bronze Award | Vision Studio-Discovery Space for Blind Children Based on the Multi-sensory Virtual Reality | XI WANG |
| | AI ZHI XUN-Chinese assistance training program for dyslexic children based on AI intelligence training | On the road |
| | UIU Community | UIU |
| Honorable Mention | Help rural science education -- inquiry-based virtual laboratory | Car team of Xujiahui |
| | Emotion education picture book——《Water seeds of self-confidence》 | Xing tan |
| | Support Children In Emergencies——The new-type Educational Service in Major Emergencies | Support Children in Emergencies |
| | Little Orange Lamp -- Design of online personalized customized training APP and community shared sensory integration training area | Little Orang Lamp |
| | Build Rainbow Bridge——Construct a beautiful countryside | The Bifrost |
| | Rural STEM 3D Curriculum——Exploring the Universe | Future EDU group |

| Awards | Case Names | Schools |
|-----------------|---|--|
| The first prize | A case study of improving speech articulation of autistic children based on picture book reading combined with oral positioning therapy | Conner School in Guangzhou, Guangdong Province (Guangzhou Children autism Rehabilitation Research Center) |
| | Shooting and application of time-lapse video for teaching | Ninghai County, Ningbo City, Zhejiang Province Shenzhen Town Junior Middle School |
| | Unlimited Creativity -- Unity video Game design and Production | Macau Pui Ching Middle School |
| | Classroom design and application of subject to change of learning style | Zhejiang Education Technology Center, Zhejiang Jiaying Senior High School, Zhejiang Hangzhou Affiliated High School of Zhejiang University |

| | | |
|------------------|---|--|
| The second prize | Relying on the regional environment, using underwater robots to promote the development and implementation of artificial intelligence education curriculum in primary schools | Beijing Institute of Education Shijingshan Branch |
| | Precision training, Companion growth: a case study of home training program for autistic children in an integrated environment | Conner School in Guangzhou, Guangdong Province (Guangzhou Children autism Rehabilitation Research Center) |
| | Research and implementation of "Technology + Innovation" school-based curriculum | Chongqing Liangjiang New Area Xing Yuan Primary School |
| | Museum curriculum development and practice | Chengdu, Sichuan Province Longquanyi District First Primary School |
| | "Idea · home" discusses growth | Quzhou, Zhejiang Province Luming Primary School in Kecheng District |
| | Practice and Exploration of school-based Curriculum under the background of "suspension of classes" -- Taking "Post Culture" curriculum as an example | Huzhou city, Zhejiang Province Anji County No. 3 Primary School |
| | Doll Painting -- an innovative interdisciplinary art course | Chengdu, Sichuan Province Wuhou Experimental Primary School |
| | New National tide · New Herbal tea | Panyu District, Guangzhou City, Guangdong Province Beijing Olympic Park South Olympic Experimental School |
| The third prize | Life-adjustment courses help social integration: A case study of an educational intervention for a preschool child with functional autism | Conner School in Guangzhou, Guangdong Province (Guangzhou Children autism Rehabilitation Research Center) |
| | Construction and practice of large unit teaching mode based on network learning space | Shapingba District, Chongqing Shuren Jingrui Primary School |
| | Project learning of paper creation based on STEAM concept | Foshan, Guangdong Province Lanshi Primary School, Chancheng District |
| | Reshape the guidance model to improve students' learning ability | Shijiazhuang Affiliated School of Beijing Normal University in Hebei Province and Yancheng Experimental School of East China Normal University in Jiangsu Province |
| | Support individualized learning of special children with information technology | Chengdu Rongcheng Primary School, Sichuan Province |
| | Insight into the future, science and innovation sets sail | Hangzhou, Zhejiang Province Binjiang Experimental Primary School |
| | From the Silk Road to the Belt and Road | Qingdao, Shandong Province Qingdao Experimental School |
| | Design and production of intelligent epidemic prevention assistant | Shunde District, Foshan City, Guangdong Province Liyun Experimental School of Beijing Normal University |
| The first prize | Educational exploration of the combination of manual work and guidance system | Guangzhou, Guangdong Province Yu Shan Senior Middle School |
| | Small household appliances in the post-epidemic era | Changxing County, Zhejiang Province Hongqiao Shaw Middle School |

The 7th SLI's Smart Learning Academic Week

In order to further strengthen academic exchanges and promote the two-way empowerment of science and technology and education, Beijing Normal University held the 7th Smart Learning Academic Week on December 27 to 31, 2021. The activity invited industry professionals, teachers and students of universities to discuss cutting-edge theories and practices of intelligent education, educational design and knowledge science. It takes a hybrid mode which includes online and onsite sessions, including "Smart Learning" series of lectures, "Calling for Outstanding Youth Artificial Intelligence Achievements" launch meeting, "Knowledge Science" course seminars and Academic Conclusion of the Smart Learning Institute of BNU.

"Smart Learning" Academic Lecture Series

From December 27 to 30, the academic week held a total of 15 wonderful academic lectures on "Smart Learning". Experts and scholars from universities and enterprises are invited to discuss relevant cutting-edge theories and practical cases in the field of education informatization.

Experts and scholars from China Education Equipment Research Institute, Hangzhou Normal University, Beijing Normal University, Bohai University and Southwest University shared teaching practice cases, smart teaching methods and the latest research results.

Executives from NETDRAGON and Elernity shared their views on cross-border and interdisciplinary education and teaching, on-demand supply in teacher development, experience in creating smart education demonstration zones, future laboratory from the perspective of educational meta-universe and blockchain technology.



Launch Meeting of "Calling for Outstanding Youth Artificial Intelligence Achievements"

On December 28, the "Youth Artificial Intelligence Innovation Program" (Yuanzhuo Project), initiated by Beijing Normal University and jointly organized by universities, primary and secondary schools, and technology enterprises, held a launch event for "Calling for Outstanding Youth Artificial Intelligence Achievements". The meeting invited many experts from well-known universities in China, administrators of education administrative departments and enterprise representatives, and carried out in-depth discussions on promoting "AI + Education" for China's youth.

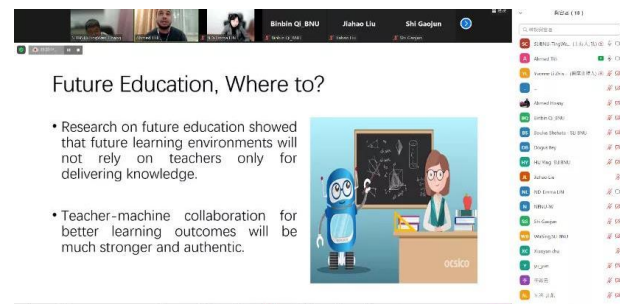
AI experts from Tsinghua University, Beijing University of Posts and Telecommunications, Beijing Institute of Technology and Tianjin University, administrators of education administrative departments in Zhejiang, Sichuan and Shenzhen, and industry representatives from NETDRAGON, Alibaba, IFlytek, Lenovo and Via shared their achievements and experiences in AI education, and expressed their willing to be involved in the implementation of "Yuanzhuo Project" and the activity.



Photo of the Launch Meeting

Webinar on the Knowledge Science course

December 30, the "knowledge science" course set by Faculty of Education Beijing normal university, exclusively invited scholars and experts from the universities and enterprises at home and abroad to discuss the collaboration between teacher and machine for future education and the prospect of future research via a webinar.



Associate Professor Ahmed Tlili from the Faculty of Education of BNU presented the "STAR Framework for collaborative teaching by teachers and machines", and invited global partners to join in this research project.

Four experts and scholars from universities and enterprises at home and abroad also shared the integration of metaverse and education from multiple perspectives including metaverse STEM lab, metaverse trend in education research, educational metaverse project and research cooperation, tactile interaction and tactile Internet.

2021 Academic Summing-up meeting of Smart Learning Institute of Beijing Normal University

On December 31, Dean Huang of SLIBNU, Guangju Chen the Vice Director of The School Council of BNU, and Fati Wu, Dean of the Faculty of Education Technology of BNU attended the 2021 Academic Summing-up meeting of the SLIBNU.

On the meeting, the heads of each department of the Institute summarized the achievements of the departments in the past year, and looked forward to the goals of the future work. The guests and leaders at the meeting spoke highly of the work of the Institute in the past year, encouraging everyone to make persistent efforts and positive progress.

In 2021, the Institute appraised and elected 10 academic achievement awards, 10 Outstanding Contribution Awards and 5 Outstanding Team Awards.



Group Photo of Academic Achievement Award Winners



Group Photo of Outstanding Contribution Award Winners



Group Photo of Outstanding Team Award Winners

Summary of the Academic Week:

Since its inception, the Smart Learning Academic Week of BNU has continuously carried out 7 sessions of activities centering on the themes of "VR and Education", "AI in Education", "Education Design" and "Education Development". A series of forums, contests, seminars, workshops, achievements and works exhibitions were conducted, and released a series of excellent achievements.

In summary, the Academic Week has become an important platform for the exchanges between academic circles, governments at all levels and the enterprises at home and abroad.

Important Activities

International Forum on Inclusive Education in Asia-Arab Region

On November 29, 2021, the International Forum on Inclusive Education in the Asia-Arab Region was successfully held in the mode of webinar. This forum focused on inclusive education in Asia and the Arab region. Director Tao Zhan of UNESCO's Institute for Information Technology in Education, and Director Mohamed Jemni of ALECSO addressed the forum.



At the forum, keynote speakers shared the achievements of Asia and the Arab region in promoting inclusive education.

Xiaohan Bi, Assistant Director of UNESCO's Centre for Innovation in Higher Education and Head of its West Asia and Africa Department, demonstrated how the International Institute of Online Education (IIOE) is contributing to more inclusive higher education in Arab countries. Natalia Amelina, an UNESCO IITE Senior Sational Program Officer for Education shared IITE's success in Improving Educational opportunities through online learning programs in Africa.

Edtech companies are also contributing to inclusive education in their own way. The head of international education strategy department of NetDragon, Dr. John Collick shared the efforts that Chinese eucational technology enterprises made for increasing school entrance opportunity and promoting the educational equity in Egypt. Representatives from Huawei, ClassIn and Squirrelai also shared how their companies are promoting educational inclusion in China and other developing countries through technological innovation.

“Knowledge Science” Course: Webinar on virtual Teaching in the Age of Artificial Intelligence

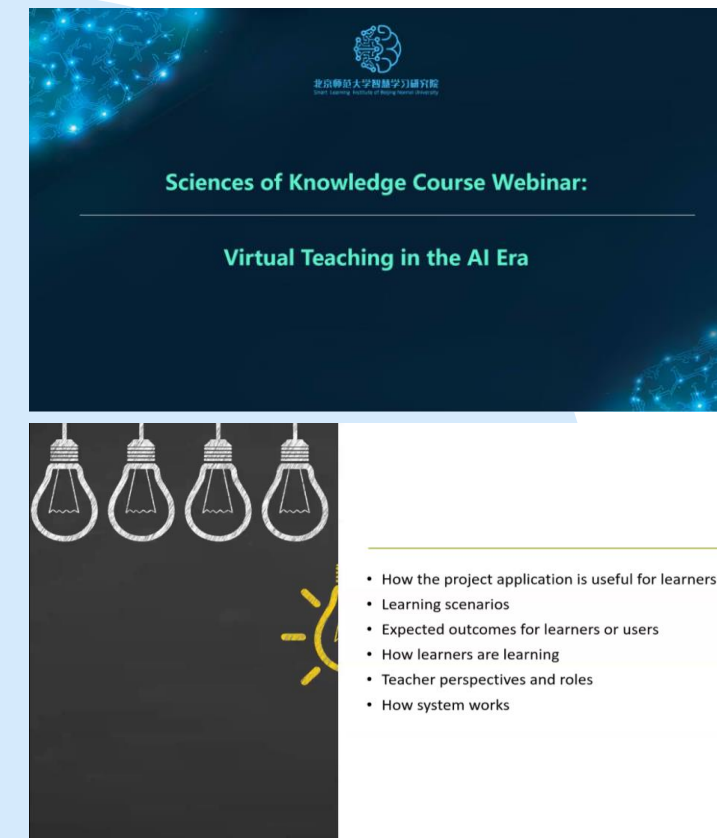
On November 18, the "Knowledge Science" course opened by the Department of Education of Beijing Normal University invited experts and scholars from universities and enterprises at home and abroad to discuss and share different views on virtual teaching in the era of artificial intelligence and the prospect of future research with the course teachers and students through a webinar.

Professor Lanqin Zheng from the Faculty of Education, Beijing Normal University gave a report entitled "Introduction to Virtual Teachers".

Dr Murat Atasay from Trabzon University of Turkey delivered a presentation on the topic "Development of Animated Virtual Sign Language Translator for Turkish Sign Language Dictionary";

Professor Daniel Burgos of The International University of Leoja of Spain shared the topic "Catch the Open!";

Professor Bojan Lalic from University of Novi Sad of Serbia gave a presentation entitled "Robot in Education in Serbia"



• Live Class of Yuanzhuo Project | CEO of Random Number--the New Development of AI

In cooperation with Random Number (Zhejiang) Intelligent Technology Co., LTD., Yuanzhuo Project conducted a public benefit live lecture about the latest development of artificial intelligence to teachers and students. The course introduced the common techniques and implementation methods of AI from the two most typical application fields of AI -- computer vision and natural language processing.



Peng Ge

Founder and CEO of Random Number Intelligent Technology Co., LTD.; executive director of National Artificial Intelligence Vocational Education Group; machine learning expert.

Understand AI | "Wisdom Learning Hall"

This time, the lecture explains the basic principle, working mechanism and calculation process of artificial intelligence technology from the perspective of numerical fitting and approximation, analyzes the intrinsic characteristics and related problems of neural network learning algorithm, and gives examples of the application of AI in education field.

CIT 互联网教育智能技术及应用 国家工程实验室 北京师范大学智慧学习研究院
Smart Learning Institute of Beijing Normal University

智学讲堂

第 3 期

理解人工智能技术

嘉宾: 庞明勇 南京师范大学教授、博士生导师

讲座简介

通过通俗易懂的方式,从数值拟合与逼近角度,解释人工智能技术的基本原理、工作机制与计算过程,分析神经网络学习算法的本征特性及面临的相关问题,举例人工智能技术教育应用的若干实例及其核心要点。

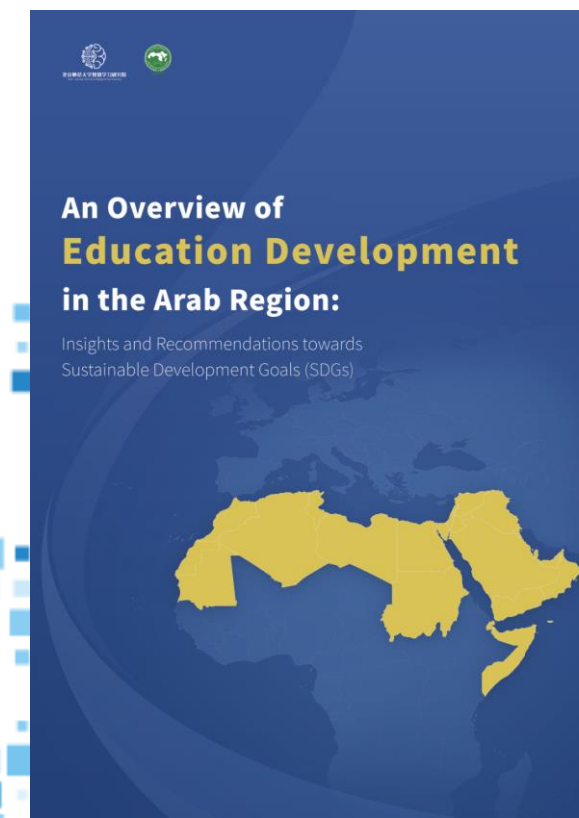
时间: 2021年11月24日(周三) 19:00-20:30
线下: 北京师范大学昌平校区3号教学楼303会议室
线上: 腾讯会议(会议ID: 809 445 110)

Books&Articles

“An Overview of Education Development in the Arab Region” was published officially

On November 3, 2021, “An Overview of Education Development in the Arab Region: Insights and Recommendations Towards Sustainable Development Goals (SDGs)” composed by the joint Arab laboratory established by SLIBNU and ALECSO was officially published.

SLIBNU-ALECSO Joint Lab has carried out research projects on Arab education development to strengthen exchanges between civilizations and promote educational and cultural exchanges between China and Arab countries. With the joint efforts of Dejian Liu, Ronghuai Huang, Yiping Wang, Mohamed Jemni, Ahmed Tlili, Salah Sharhan and other experts and researchers, this book was completed.



Project Status

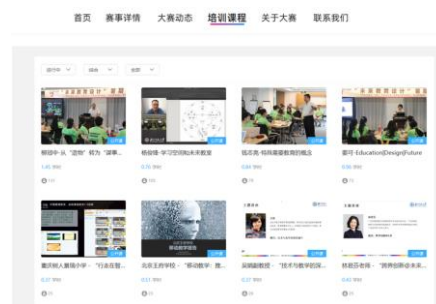
Global Competition on Design for Future Education

From October to December 2021, the project team will carry out relevant work mainly around the final of the competition.

Specifically, include:

- 1) Organize the preliminary competition results conference, announce the preliminary competition promotion list. At the same time, experts from different fields make keynote speeches, bring new ideas for the further design of contestants' works.
- 2) Organize the final training sessions to help the finalists to further identify problems, optimize the design, and better prepare for the final.
- 3) Prepare and organize the final of the competition.

Submitted by:
Hongyan Kuai

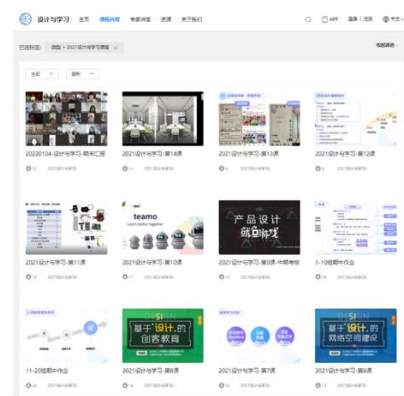


"Design and Learning" Course

In the autumn semester of 2021 (September 2021 to January 2022), the course "Design and Learning" will be opened. The lecturers of this semester are Ronghuai Huang, Dejian Liu and Jianguo Shi.

Beside Beijing Normal University, Zhejiang Normal University has also included it into the school's official graduate elective courses, and students can get credits after choosing courses and passing the examination.

Beginning in August 2021, the course advertises students nationwide. It gives telephone interviews according to the registered students, and finally determined 106 college students from 30 colleges and universities at home and abroad, including 20 undergraduates and 86 graduate students.



Submitted by:
Hongyan Kuai

Global Conference on Intelligent Education

2021 Global Intelligent Education Conference has been successfully held from August 18 to 20, 2021, with one main venue in Beijing and one sub-venue in Nanchang. Participants include UNESCO Assistant Director-general for Education and Nobel Prize winner, 100+ domestic guests and 50+ international guests covering 25 countries. It published 8 research results, activities and plans, and more than 60 media broadcast live or report, 5.5 million views online. Chongqing held a conference in the name of "Global Intelligent Education Conference" in September, thus the brand influence of the whole conference has been further enhanced.

Submitted by: Tingwen Chang

Virtual Laboratory for Future Education in Central and Eastern Europe

The Joint Virtual Laboratory for the Future of Education in Central and Eastern Europe (CEEC) project is based on the trilateral cooperation agreement signed by Beijing Normal University, NETDRAGON and the University of Novi Sad in Serbia in May 2018. Starting from Serbia, the project extends to 16 CEE countries.

From October to December 2021, the project team will make steady progress on the white Paper project of smart education in Central and Eastern Europe. They have received the first draft from most experts and completed a round of review and feedback on the first draft.

Submitted by: Tingwen Chang, Hao Chen, Rongxia Zhuang

National Smart Education Framework Project

Common of Learning delivers desktop research on global smart education and has begun collecting and analyzing case studies from 15 countries around the world.

The International Educational Technology Association has delivered a national Framework for intelligent Education for the world and has begun preparing a 35-page Framework guide and 50-page research paper with BNU team.

The Russian Higher School of Economics has delivered a 30-page literature analysis report on the global assessment of smart education, and has started to prepare indicators for the Global Assessment of Smart Education with BNU team.

Submitted by: Tingwen Chang

Southeast Asia Joint Laboratory Project

Invited to participate in the 44th Senior Officials' Meeting of the Organization of Southeast Asian Ministers of Education (HOM, 30 November 2021), as well as international meetings organized by SEAMEO and its regional sub-centers. Invite and follow up the report on education informatization in Southeast Asia. At present, an expert network has been initially established in Southeast Asia (11 countries), and a network of more than 100 experts from more than 20 organizations/institutions in South Asia (7 countries), Africa and other countries or regions.

Submitted by: Tingwen Chang

SLI-ALESCO Joint Laboratory Project

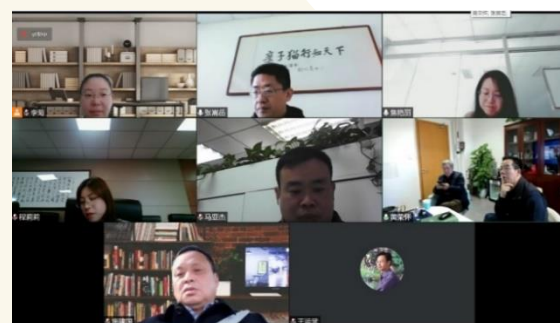
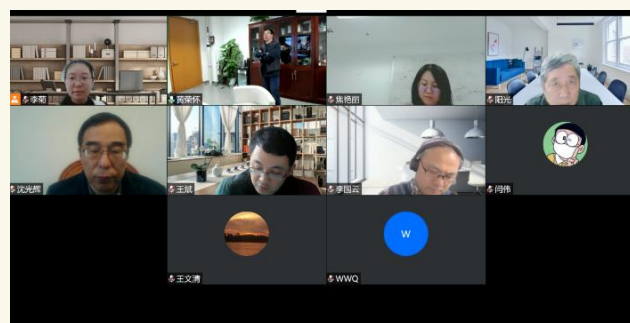
The Joint Laboratory organized the International Forum on Inclusive Education in the Asia-Arab Region on 29 November 2021, which is one of the weekly sub-forums for Inclusive education organized by UNESCO regional Bureau for Science in the Arab States (UNESCO) and the International Telecommunication Union (ITU). Director Tao Zhan of THE UNESCO Institute for Information Technology in Education and Professor Mohamed Jemni, Director of INFORMATION and Communication Technology of the Arab League Educational, Cultural and Scientific Organization (ALECSO), gave speech for the Forum.

Submitted by: Tingwen Chang, Ahmed

2021 China Smart Learning Environment White Paper Project

On December 24-25, 2021, project team of 2021 China Smart Learning Environment White Paper invited experts to hold two seminars according to the characteristics of the topic.

Submitted by: Tingwen Chang



Chengdu Wuhou District Smart Campus Pilot School Construction Project

In October, the cooperation Agreement on Construction Consulting Service Project of Smart Campus Pilot School in Wuhou District of Chengdu was signed.

From October to December, the project team supported Longjiang Road Primary School to carry out online training on construction of smart campus, guiding and improving nearly 30 excellent class examples of innovative education and teaching mode, and refined 11 smart campus construction cases of the schools.

In December, Director Yi Wang of Wuhou Education Bureau visited the research institute, and the Vice Dean of SLIBNU, Zeng Haijun led the project team to communicate on the construction and cooperation of Wuhou Smart Education demonstration Zone.



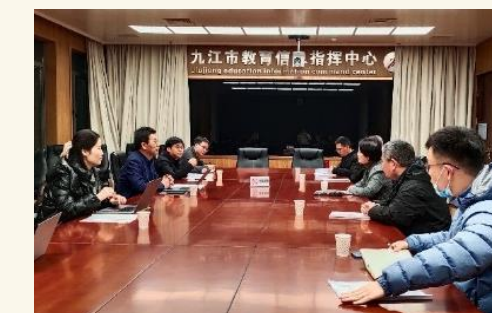
Director Yi Wang of Wuhou Education Bureau communicated with the project team

Submitted by: Yongzhong Wang

Jiujiang Regional Smart Education Construction Cooperation Project

From October to December, the project team assisted Huawei Jiangxi Branch to evaluate the project proposal of "Intelligent Jiujiang Industry Application Phase II Project - Intelligent education", and preliminarily confirmed with Jiujiang Education Bureau that the two parties would carry out in-depth cooperation in five directions for a period of five years, which would be completed in three cycles.

On December 17, the project team went to Jiujiang city to carry out education informatization research, and jointly discussed the future development direction, goals and vision of smart education in Jiujiang city with the Jiujiang Education Bureau.



The project team communicated with relevant leaders of Jiujiang Education Bureau

Submitted by: Yongzhong Wang

Global Artificial Intelligent Education Support environment for K-12 White Paperdirect

In order to promote youth Artificial Intelligence education and analyze the supporting environment of artificial intelligence education, the **Global Artificial Intelligent Education Support environment for K-12 White Paperdirect** is launched. The research project focuses on collecting, summarizing, analyzing and comparing all kinds of data to support the comprehensive understanding of the academia, education and industry on the status quo, influencing factors and development trends of the global K-12 AI education supporting environment.

At present, the compilation of the Chinese abstract version of the white paper has been completed, and the English translation and the complete compilation will be carried out.

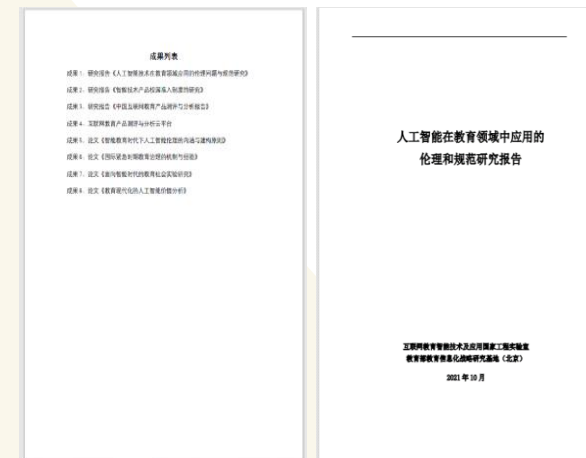


Submitted by: Youjie Yao

Ministry of Education Science and Technology Development Fund Project: Research on Ethical Issues and Norms of Artificial Intelligence Education Application

In October 2021, the final report and result set of the research topic on ethical issues and norms of artificial intelligence education application will be formally submitted. This study focuses on the ethical issues of AI application in the field of education, the review mechanism of AI products entering the campus, AI product evaluation and other related issues in the process of integrating AI into learning, life and society.

Submitted by: Youjie Yao



Construction and Application of First-class Courses in Virtual Simulation Experiment Teaching in Colleges and Universities

On December 3, 2021, the 7th China Virtual Reality Industry-University-Research Conference Virtual Simulation Experimental Teaching First-class Course Construction and Application Theme Forum was successfully held online. Nearly 2,000 teachers from more than 450 colleges and universities across The country attended the conference online.

Submitted by: Youjie Yao

Research and Practice on the Construction of New Teaching Materials Based on Knowledge Graph

In the end of October 2021, The Department of Higher Education of the Ministry of Education decided to support 41 textbook research and practice projects in emerging fields. The project of "Research and Practice on The Construction of New Teaching materials based on Knowledge Graph" led by Professor Huang Ronghuai as the head of Beijing Normal University and submitted by China Education Publishing Media Group was approved successfully.

Submitted by: Youjie Yao

IBE Cooperation Project

Completed the report "A Guideline Framework for Hybrid Education, Learning, and Assessment (HELA)", completed the academic paper "Effects of learning goal orientation, university support, playfulness, and self-efficacy on students' acceptance of Hybrid Learning: An extended technology acceptance model" and submitted to journal Interactive Learning Environments (SSCI Q1, IF 3.928).

Submitted by: Tingwen Chang, Xinjian Qi

2022 Education APP Product Evaluation Project

On December 30, 2021, the 2022 Education APP Product Evaluation Project team organized more than 50 interns to carry out pre-assessment training on human experience, privacy and data security.

Submitted by: Yanli Jiao

Exclusive Interview

Hello Mr. Chen, as one of the core members of the Youth Artificial Intelligence Initiatives Programme, could you give an update on the progress of this project?

Welcome to visit the Yuanzhuo Project online resource platform at <https://yuanzhuo.bnu.edu.cn>. The platform has been running steadily for more than two years since it was launched at the end of 2019. It has more than 80 courses and thousands of various resources. There are thousands of registered users and several hundred thousand minutes of total learning time. The Yuanzhuo Tiktok account attracts more than 4,000 fans and received millions of views. The Yuanzhuo platform supports online learning, learning progress management, submission and correction of assignments, communication and discussion, etc.

Through the two years complementation, we have brought together a large number of like-minded primary and secondary school teachers, university professors and enterprises. By bringing them together, we started the Project in early 2020, and have conducted nearly 100 live broadcasts since then. We will also carry out projects such as book readings, translations and other projects, documenting the process and content through the GitHub platform, and eventually produced materialized results.

In the first round of the "Call for Outstanding Youth Artificial Intelligence Initiatives" activity, more than 100 valid initiatives are collected.



Hongyu Chen
Smart Learning Institute, Beijing
Normal University, Research
Assistant

We are now inviting experts for further evaluation, and will eventually compile the outstanding initiatives into a booklet, which will be published in both paper version and online interactive version.

The goal for this year is to maintain and increase the activeness of the Yuanzhuo community, keep developing community activities through community crowdsourcing of projects, such as book clubs, analyzing curriculum standards and translating books.

It is known that you are also responsible for the construction of the Education App Lab, can you tell us about the main elements of this work?

Firstly, developing and go live the Education App Evaluation and Analysis Portal, setting education app data dimensions and data collection, and forming the education app database. At present, 90 dimensions of data are collected and marked for each app, more than 4,000 apps have been collected and nearly 700 have been marked.

The second task is to conduct various surveys on the assessment work, contact with various app assessment companies, and complete the construction plan of the Education App Evaluation Lab and to complete the initial construction of the laboratory environment.

Then, participate in the composition of the "2021 China Internet Education Product Evaluation and Analysis Report", which was released in August 2021. The writing of this year's report is also approaching completion.

The objectives for this year are to perfect the various testing indicators and standard specifications of the Education App Evaluation Lab, coordinate well with the NetDragon's QA, prepare for the release of the corresponding research report, and continuously promote lab construction.

As a senior staff member of the Institute, what insights do you have to share with the new recruits?

What I feel most is to take the initiative in doing things. To do more with my heart and explore the most effective path throughout the process. Strive to make everything bear fruit and contribute to the Institute.

I would also like to share two personal affairs management tools: Notion and MicroSoft Todo, which are effective for improving execution by tracking and planning affairs and schedule.