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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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第九届 北京师范大学 2024.1.8-1.12

智慧学习学术周

The 9th Smart Learning Academic Week of Beijing Normal University

主办单位 | 北京师范大学
承办单位 | 北京师范大学智慧学习研究院 CIT
协办单位 | 网龙华渔教育
支持单位 | 北京教科院



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

Smart Learning Institute of Beijing Normal University

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

- Focusing on the methods of design, optimization and evaluation for learning environment as well as developing the key technologies for learning environment engineering aims at providing a widely-spread solution for promoting smart learning.
- Constructing the theory of smart learning and exploring the approaches of integrating ICT with Education aims at offering an international exchange and cooperation platform to smart learning research.
- Studying on the characteristics and patterns of schooling, family education, community education, enterprise learning and public learning aims at providing support for constructing a learning oriented society and smart city.
- Expanding the experimental areas and schools for smart learning as well as exploring the characteristics of ICT-based instruction and the models of future schools aims at promoting educational transformation and innovation.



Co-Dean Dejian LIU

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



Co-Dean Ronghuai HUANG

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

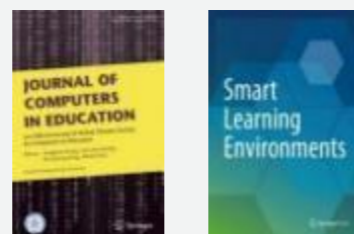
Open Series in Springer

- Lecture Note in Educational Technology
Series Editors: Huang, R., Kinshuk, Jemni, M., Chen, N.-S., & Spector, J.M.
- Smart Computing and Intelligence
Series Editors: Huang, R., Kinshuk, & Dede, C.
- New Frontiers of Educational Research
Series Editors: Zhongying Shi, Ronghuai Huang, Zuoyu Zhou.



Springer's Journals

- Smart Learning Environment
(The Official Journal of IASLE)
Editors: Huang, R., Kinshuk, & Soloway, E.
- Journal of Computing in Education
(The Official Journal of GCSCE)
Editors: Huang, R., Hwang, G.-J., Kong, S.-C., & Chen, W.



Design and Learning Laboratory

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



Virtual, Augmented, and Mixed Realities in Education



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: Index Report of Smart Smart Learning nvironments in China Learning Environments 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



Winter 2023, ISSUE No.28

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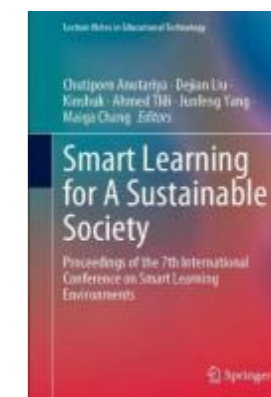
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Constructing Regional Smart Education Ecosystems in China

Smart Learning for A Sustainable Society

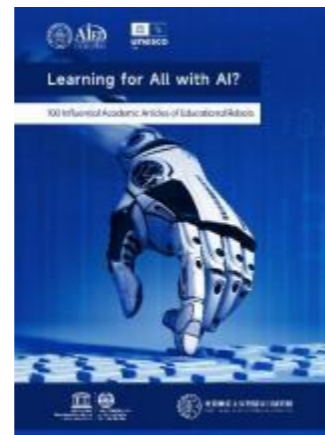


Features

Review of Hot Topics in 2023

Mar.

March 31st, the UNESCO Chair on AI in Education was officially launched at Beijing Normal University, Dean Huang was appointed as the Chairholder. The handbook titled *Learning for All with AI? 100 Influential Academic Articles of Educational Robots* was released.



Apr.

The book "Test of Education Application in China: Method, Practice and Envision" (in Chinese) was published.

May 20th to 25th, Dean Huang was invited to the International Seminar on Artificial Intelligence Education in Arabian Countries held by Arab League Educational, Cultural and Scientific Organization (ALECSO) in Tunisia.



May.

On May 30th, the launching ceremony and implementation plan demonstration meeting of the "Key technology Application Demonstration of Intelligent Computing in Learning Environments" project, a major project under the Chinese National Science and Technology Innovation 2030 program and led by Professor Li Yanyan from SLIBNU, was held.



In May, the book "Research Report on Smart Learning in China (2022-2023): Smart Learning Environment" (in Chinese) was published.

Jun.

June 1st, the Smart Learning Institute at Beijing Normal University, co-hosted the "Central and Eastern Europe International Science Conference".



June 12th to 16th, the 2023 Computational Thinking and STEM Education Seminar & Bebras China Community Annual Work Meeting was held.

June 20th to 23rd, Dean Huang and his delegation attended the International Conference on Nation-Building (ICNB) 2023 in Thailand.



Jul.

July 17th to 20th, Dean Huang attended the 16th International Conference on Blended Learning (ICBL 2023) in Hong Kong.



In August, the book Future Education Empowered by Artificial Intelligence (in Chinese) was published.



In August, the book Smart Education: Policy, Technology, Practice(in Chinese) was published.

August 14th to 15th, the AIGC Student Summer Camp was launched.

August 14th to 20th, the TVET Leadership and Management Benchmarking Programme was held in Tianjin and Beijing.



Aug.

August 18th to 20th, the 2023 Global Smart Education Conference(GSE2023) was successfully held at Beijing Normal University.

With the theme of "Education Transformation and Data Governance", the conference invited experts, scholars and front-line teachers from education, technology, and business circles at home and abroad to discuss the strategy and promotion path of the digital transformation of education, focus on the mechanism of technology-enabled education, and explore the construction of a regional smart education ecosystem and learning society. In this way, they can think about the growth of the digital generation and the innovation of evaluation methods, and share new theories, technologies, ideas and outcomes of smart education. The conference attracted more than 300 international and domestic guests, and over 1,200 on-site participants.



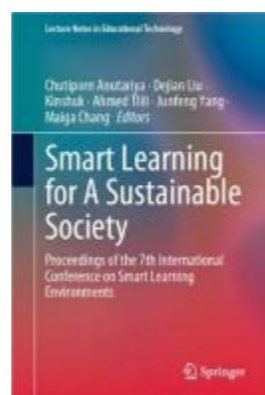
August 18th to 20th, the final round of the "6th Global Competition on Design for Future Education" was held at Beijing Normal University.

From August 18th to 20th, 2023, the Global Finals of the 6th Global Competition on Design for Future Education, co-organized by Beijing Normal University (BNU) and UNESCO Institute for Information Technologies in Education (IITE), was successfully held at BNU's Changping Campus. The themes of the Competition include Artificial Intelligence and Education, Metaverse and Education, Rural Education, Inclusive Education, Artificial Intelligence, Big Data, and Psychology. It featured two categories, for college students and for primary and secondary school teachers respectively, aiming to gather a comprehensive and effective range of solutions for future education design from the perspective of global college students. By collecting cases from primary and secondary school teachers worldwide, the Competition showed how these educators incorporate the concept of future education into their teaching practices.



August 31st to September 1st, the 7th International Conference on Smart Learning Environments (ICSLE2023) was successfully held in Bangkok, Thailand.

With the theme of “Smart Learning for Sustainable Society: Emerging Technologies and Applications”, the conference received 69 submissions and 38 articles, attracting researchers, practitioners and policy makers in the field of smart learning environments from all over the world to discuss how to utilize the emerging technologies to promote the sustainable development of education, with emphasis on the interaction between education and technology and the integration of the use of smart learning environments. The conference will focus on the interaction between education and technology, and the integration and utilization of smart learning environments. The proceedings of the conference, *Smart Learning for a Sustainable Society*, are now available on Springer's website.



In October, the Chinese aid to Cambodia 10th grade “Information Technology” textbook teacher training was accomplished.

October 25th to 26th, Dean Huang was invited to attend the UNESCO Expert Meeting on Learning Sciences held at UNESCO headquarters in Paris.



November 8th to 9th, Dean Huang was invited to attend the 60th-anniversary celebration of the UNESCO International Institute for Educational Planning (IIEP) held in Paris.

Oct.

Nov.

November 12th to 16th, Dean Huang was invited to attend the 16th ASEF Classroom Network Conference.



November 14th to 29th, “Computational Thinking and Artificial Intelligence Education in mainland China, Hong Kong and Macau” seminar series were held.

November 21st, China-Africa Policy Dialogue Forum on AI in Education was held in Beijing, launching the “China-African AI in Education Community of Practice”.



In November, the book *Constructing Regional Smart Education Ecosystem in China* was published.

In November, the book *Smart Education Best Practices in Chinese Schools* was published.



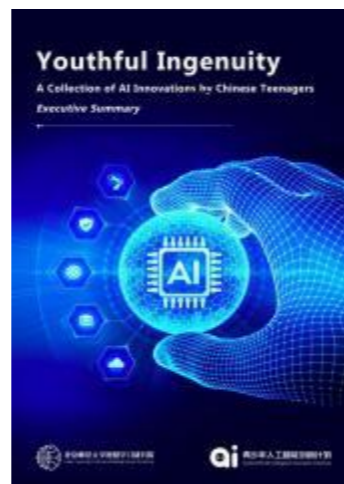
Dec.

December 4th to 8th, Dean Huang was invited to attend and deliver an online speech on the 31st International Conference on Computers in Education (ICCE 2023) which was successfully held in Japan.

In the fall semester of the 2023 academic year, the "Design and Learning" course will be offered.



From January to December, 2023, Youth Artificial Intelligence Innovation Initiatives (Yuanzhuo Project) continued to provide educational services to students and IT teachers through 32 online and offline activities, involving over 100 participating organizations and 65,000 viewers via live broadcasts.



第九届
北京师范大学
智慧学习学术周
The 9th Smart Learning Academic Week of Beijing Normal University
2024.1.8-1.12
会议议程

日期	时间	主题
1月8日	14:00-19:30	学术周开幕式暨设计与未来教育主题论坛
1月9日	9:00-12:00	智慧学习产品设计、评测与应用主题论坛
	16:00-18:30	教育数字化转型与未来学习空间设计主题论坛
1月10日	9:00-12:00	智能计算与新一代学习环境主题论坛
	14:00-17:00	沉浸式学习与未来实验室主题论坛
1月11日	14:00-17:00	AIGC学校典型应用案例与挑战主题论坛

The 9th Smart Learning Academic Week of Beijing Normal University was successfully held.

The 9th Smart Learning Academic Week of Beijing Normal University

From January 8th to 12th, 2024, the 9th Beijing Normal University Smart Learning Academic Week, hosted by Beijing Normal University and co-hosted by the Smart Learning Institute of Beijing Normal University and the National Engineering Laboratory for Cyberlearning and Intelligent Technology(CIT), was successfully held. The academic week was themed "Design for the Future of Education" and focused on the design-related issues of key educational scenarios in the context of educational digital transformation, covering topics such as learning products, learning environments, on-demand learning, future experiments, and the application of AIGC in schools.

Several experts and officials from UNESCO attended this event, along with scholars from universities such as University College London, Tsinghua University, Peking University, and the University of Hong Kong, representatives from companies such as NetDragon, Huawei, Alibaba Cloud, and Tencent, educational administrators and frontline teachers from Beijing and Tianjin, who shared the latest research findings and exemplary cases from the perspective of education, technology, and design, and provided valuable suggestions for the future development of education.



"Design & Learning" International Course Launched

At the opening ceremony of the Academic Week on January 8th, the "Design and Learning" international course was launched, which attracted widespread attention. Yongqiang Liu, Director of Institute for Curriculum, Textbook and Laboratory, Department of Higher Education, Ministry of Education, Wuizu Song, Founder of Beijing Design Society, and Deputy Director of the Central Cultural Committee of CDL, Ya Zhou, Vice Provost of Beijing Normal University, Fati Wu, Dean of the School of Educational Technology in Beijing Normal University, Xuedong Luan, Deputy Editor-in-Chief, Beijing Normal University Press Group, Dejian Liu, Co-Dean of Smart Learning Institute of Beijing Normal University, and Chairman of NetDragon Websoft Inc. Ronghuai Huang, Co-Dean of Smart Learning Institute of Beijing Normal University, Changjie Chen, Deputy Dean of Smart Learning Institute of Beijing Normal University, jointly unveiled the results.

The “Design & Learning” international course includes co-authored by experts worldwide, and a cutting-edge AI-powered MOOC, “Design and Learning.” are included in this course. a Chinese textbook for higher education, “Design and Learning”, an English book, “Envisioning the Future of Education Through Design”, co-authored by experts worldwide, and a cutting-edge AI-powered MOOC, “Design and Learning”. Professor Ronghuai Huang mentioned that, this set of achievements was created based on years of coursework and innovative practical activities and collaboration with experts from both domestic and international backgrounds. The primary focus was to explore the opportunities and challenges facing future education, elaborate on the NCIP design method applicable to the field of education, showcase typical scenarios and outstanding examples of design application in education, and drives the future education design towards “Common Interests”. It is hoped that through this set of achievements, more teachers and students will participate in the dialogue and practice of future education design.



Professor Ronghuai Huang Introduces the International Course on “Design and Learning”

➤ Experts and scholars present the latest research findings



E-Learning as ‘On-demand Learning’: Examples of Good Practice from the University of South Africa (UNISA)



Moeketsi Letseka

The Holder of UNESCO Chair on Open Distance Learning at Unisa

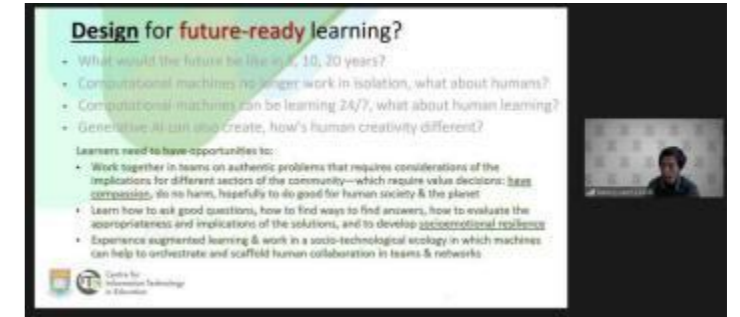
Professor at University of South Africa

Introduced to the audience the excellent practices of African universities in the field of “digital learning” and emphasized the importance of cultivating students’ digital skills in online learning.

Nancy Law John

Associate Dean of the Faculty of Education, The University of Hong Kong

Discussed the importance of designing learning experiences for the future, emphasizing that learners should have the opportunity to solve real-world problems in teams, develop social and emotional resilience, and experience blended learning and working styles in social and technological ecosystems.



Xiangen Hu

Director of the Institute for Higher Education Research and Development, The Hong Kong Polytechnic University

Delivered two presentations on different topics to the audience. In his presentation titled “Exploring the Horizon: AI in Advanced Learning Environments”, Professor Xiangen Hu delved into the role of artificial intelligence in education, emphasizing that users should continue to question and probe the answers given by large language models after receiving a problem.



In his presentation titled “Socratic Playground for Learning”, Professor Xiangen Hu introduced the possible roles and applications of generative artificial intelligence in education and learning environments, as well as the crises that may arise from the improper use of artificial intelligence in education.

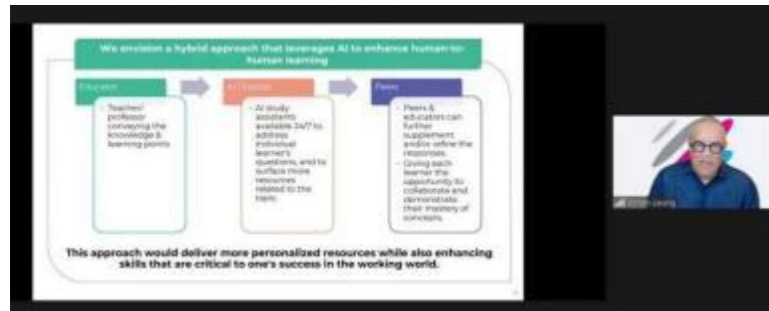
Wenjun Wu

Professor at the Institute of Artificial Intelligence, Beijing University of Aeronautics and Astronautics

Introduced the current state of development of educational large-scale models both domestically and internationally, and shared various learning methods such as personalized and adaptive learning, group collaborative learning, and intelligent tutoring through human-machine dialogue in the new generation of intelligent learning environments.



Business Representatives Introduce Innovative Products and Solutions



Nianjian Liang

Vice chairman of NetDragon Websoft

Delivered a speech titled “Future Education”, in which he believed that in the future, education will be more focused on individualization, and the one-size-fits-all education model will no longer be applicable. Technological advancements will enable more students to engage in personalized learning.

Educational Administrators, Frontline Teachers, and Students Share Exemplary Cases

This academic week event also invited teachers from Beijing, Shanghai and other places, as well as winners and students from the 6th Global Competition on Design for Future Education, to share their educational exploration and practice in their work and study.



Zhaoduan Li

The Director of the Student Development Evaluation Department, Beijing Fangshan District teachers' college for vocational studies

Training School introduced the “Gt5-6-5 Good Study Laboratory” construction concept, technical support, and practical application experience from the perspectives of “Exploring Five Educations” and “Penetrating Six Layers” and “Promoting Five Dimensions”.

Roundtable Discussion: Creating a Platform for New Thinking in Education

This academic week featured two roundtable discussions, where experts from various fields shared their insights on hot topics, such as new ideas and designs for next-generation intelligent learning environments, diverse teaching methods, and typical application scenarios, potentials, and challenges of AIGC in school education.



Around key questions such as “How to plan and design the next generation of learning environments?”, “How can intelligent learning environments empower educational and teaching processes?”, and “How can intelligent technologies support the construction of intelligent learning environments?”, Professor Lifeng Sun from Tsinghua University, Associate Professor Yu Guo from Beijing Normal University, Vice Principal Yan Liang from Beijing Dongzhimen High School, Principal Wen Zhang from Yangtianhu Chiling Primary School, Tianxin District, Hunan Province, Principal Maoliang Zhang from the No.2 Primary School, Chashan Town, Guangdong Province, Teacher Ning Zhu from Chengdu Education Technology Equipment Management Institute, Mr.Song Zhu from Huawei Technologies Co., Ltd., and Mr. Liang Hao from NetDragon Websoft Inc. engaged in a dialogue.

This academic week has received strong support from the Beijing Design Society and is co-sponsored by NetDragon Huayu Education. The event features six forums, including “Design and Future Education”, “Design, Evaluation, and Application of Smart Learning Products”, “Digital Transformation of Education and Design of Future Learning Spaces”, “Intelligent Linkage Computing and Generation of the Next-Generation Learning Environment”, “On-demand Learning and Future Laboratory”, and “Typical Application Scenarios and Challenges of AIGC in Schools”. Look forward to working together with the government, schools, enterprises and other sectors to further integrate education, technology and design, thereby promoting the synergy of future education and design.

Important Events

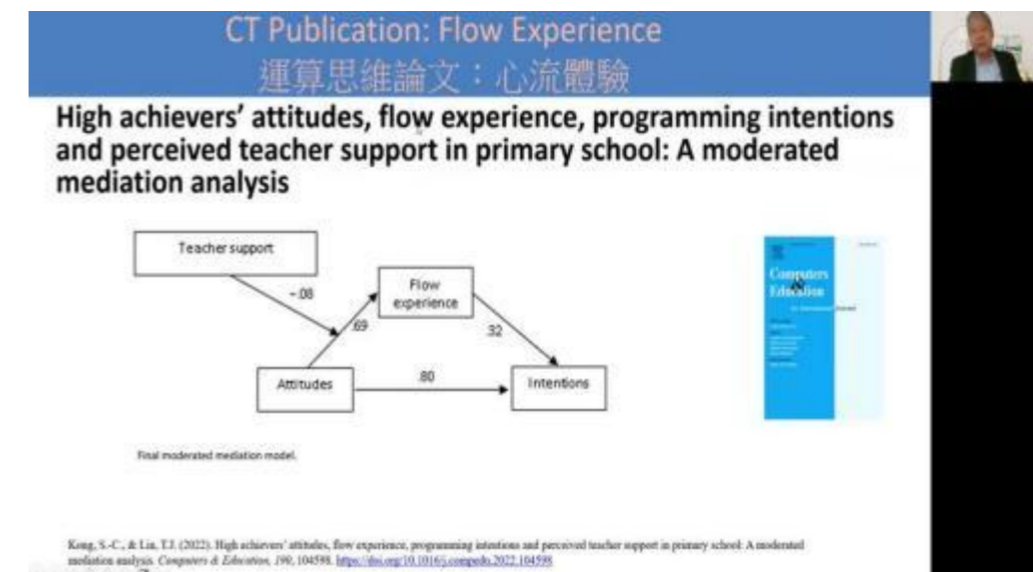
The China-Aid-Cambodia Project for Grade 10 “Information Technology” Textbook Teacher Training

On October 17th, 2023, with the support of the Chinese Embassy in Cambodia and the Ministry of Education, Youth, and Sports of Cambodia, Hunan Science and Technology Publishing House and the Information Technology Department of the Ministry of Education, Youth, and Sports of Cambodia jointly launched the teacher training program for Grade 10 “Information Technology” textbook at Lycée Léquèsne High School in the outskirts of Phnom Penh, the capital of Cambodia. Professor Huang Ronghuai, Co-Dean of Smart Learning Institute of Beijing Normal University, who served as the chief editor of the textbook, was invited to attend the launching ceremony and delivered an academic presentation titled “Digital Transformation and Digital Literacy in the Era of Artificial Intelligence in Education”.



Seminar Series on “Computational Thinking and Artificial Intelligence Education in Mainland China, Hong Kong and Macau”

From November 14th to 29th, the Computational Thinking Research Center of Beijing Normal University and the Youth Artificial Intelligence Innovation Initiatives (Yuanzhao Project) of Beijing Normal University, jointly hosted a series of seminars on “Computational Thinking and Artificial Intelligence Education in mainland China, Hong Kong and Macau”. The seminars included three main topics: “Theory and Practice of Computational Thinking Education”, “Trends and Challenges of Artificial Intelligence Education”, and “International Sharing of Experience in Computational Thinking and Artificial Intelligence Education”, and activities for primary and secondary school students. Participants included well-known scholars such as Professor Zhaoxiang Jiang from the Education University of Hong Kong, Professor Rongzhao Hong from National Taiwan Normal University, and Associate Professor Jun Peng from the School of Education at City University of Macau, as well as educational researchers and teachers from Hong Kong, Macau, and Taiwan.



Learning Contents

Mathematics

- Geometric primitives, Counting, Multiplication, Decimals, Fractions and ratios, Quantities, Weight scale and moment computation, Graph construction, Angles.

Science

- Power, and velocity, Constant speed, acceleration, and deceleration, Work and energy, Force, gravity, and friction, Doppler effect, Fundamentals of electricity, **Material properties**.

Technology

- Material process (procedure & psychomotor)**, Application of physics and math to tool functions.

Engineering

- Solve uncertainty problems e.g. **precision**, controllability, flexibility, **reliability**, safety, **stability**, and efficiency during transitions, and dynamic operation. **Optimum design**.

Art

- Sense of culture, aesthetic, and humanities.

China-Africa Policy Dialogue Forum on AI in Education Held in Beijing



On November 21, the "China-Africa Policy Dialogue Forum on AI in Education" took place in Beijing. The event was jointly organized by the UNESCO Chair on AI in Education at Beijing Normal University and the UNESCO Eastern Africa Multisectoral Regional Office. Policymakers, researchers, educators, and representatives from the private sector in China and African countries engaged in in-depth discussions on how to harness the transformative power of innovative technologies, including artificial intelligence, to drive educational transformation. The event also marked the launch of the "China-African AI in Education Community of Practice" laying a solid foundation for further collaboration between China and African countries. Students and teachers from various African countries, including Kenya, Mauritius, Rwanda, Somalia, and Uganda, participated in the meeting.



On a global scale, the digital transformation of education, driven by artificial intelligence, has emerged as a pivotal focus in educational reform and development. With the objective of facilitating the recovery of education post-pandemic, tackling the learning crisis in the era of intelligence, achieving Sustainable Development Goal 4 (SDG4) of the United Nations, and aligning with Africa's Vision 2063, the conference aimed to establish an effective platform for communication, fostering dialogue, and promoting collaboration. The primary aim was to catalyze the formulation of pertinent education policies and the exchange of innovative methods, while seeking viable strategies to address various challenges associated with the digital transformation of education. Conducted through a hybrid format that integrated both online and offline elements, the conference witnessed the active participation of nearly 70 experts and representatives.

Project News



Completed the initial draft of the "Blue Book of Smart Learning for 2024 - Research Report on Smart Learning Products" and collaborated with the Education Information Technology Equipment Industry Association to obtain external resource support.

-- Contributed by Yanli Jiao



The organization conducted the "Chongqing Dazu District Leading Talent and Elite Talent Training Course" and the "Chongqing Dazu District Smart Education and Digital Education Training Course", training a total of 300 people.

-- Contributed by Lijie Yue



The case of cooperation between China and Central and Eastern Europe has officially been selected as an outstanding case of education cooperation between China and Central and Eastern European countries by the China Education International. It has obtained a book number and will be officially published soon. The second issue of the "Information on Central and Eastern European Countries" has also been completed.

-- Contributed by Dingwen Zhang & Hao Chen

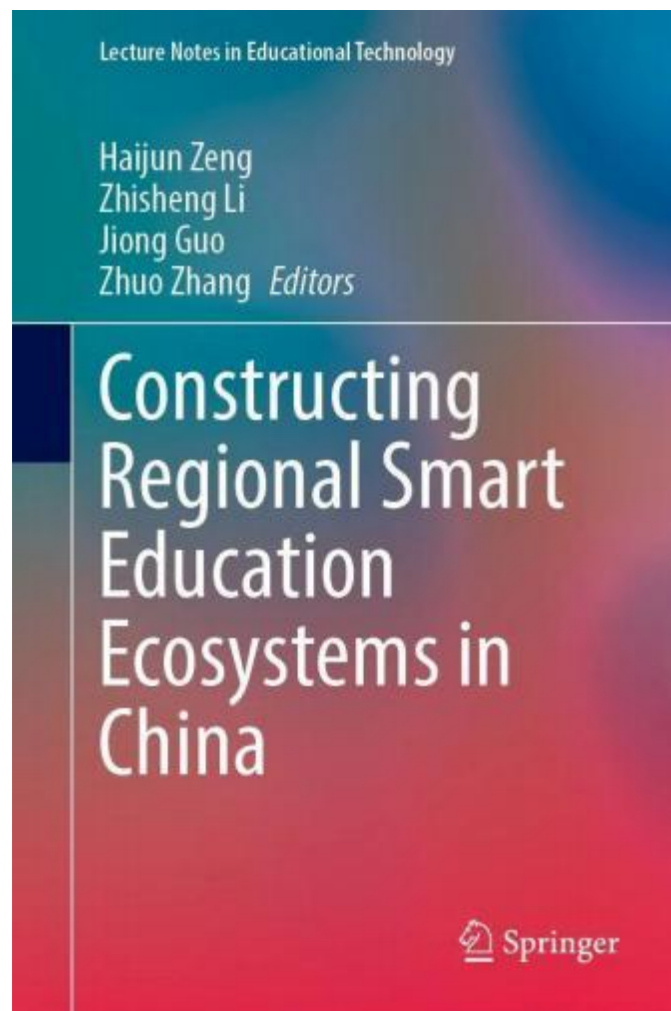


Successfully completed the China-Aid-Cambodia Project for Grade 10 'Information Technology' Textbook Teacher Training, 5 classes and training 300 information technology teachers), and organized a writing team to further optimize the curriculum resources for the textbooks in cooperation with the publishing house.

-- Contributed by Youjie Yao

Books & Articles

Constructing Regional Smart Education Ecosystems in China

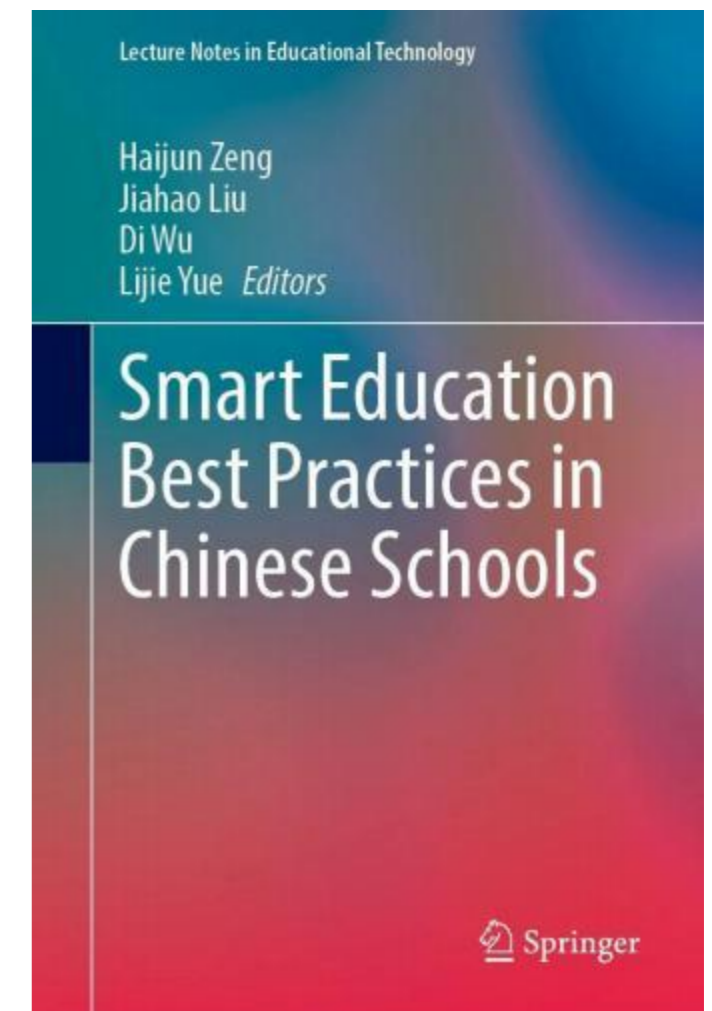


Authors: Haijun Zeng, Zhisheng Li,
Jiong Guo, Zhuo Zhang

- Presents case studies of regional smart education in China
- Facilitates the integration and innovation of educational informatization
- Promotes exchange of experiences in smart education in China and abroad



Smart Education Best Practices in Chinese Schools



Authors: Haijun Zeng, Jiahao Liu,
Di Wu, Lijie Yue

- Presents best practices in smart education in Chinese schools
- Showcases smart education achievements from multiple perspectives
- Contributes to smart education development worldwide

