

# 2024

18-20 August, 2024

Beijing, China

## GLOBAL SMART EDUCATION CONFERENCE

Educational Transformation & International Understanding



Global Smart  
Education Network





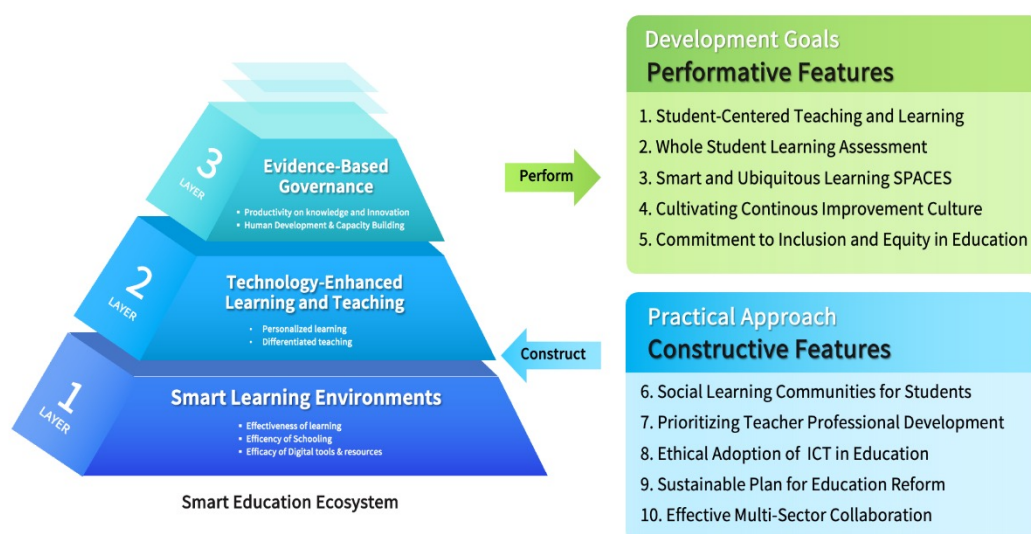
## CONFERENCE BACKGROUND

“ As a new form of education in the digital era, smart education is an inevitable choice for advancing equitable, inclusive, and high-quality education. ”

The changes in the world, the era, and history are unfolding in unprecedented ways, driving the adaptation and adjustments in global education.

Digitalization in education is a crucial breakthrough for opening new avenues and shaping new advantages in educational development. UNESCO advocates for constructing a new "social contract," fully leveraging the educational dividends brought by digital technology to demonstrate education as a global public interest better. The UN Transforming Education Summit calls on countries to fully harness the power of the digital revolution to drive global education reform, ensuring the provision of high-quality education and lifelong learning as a common interest for everyone. China has proposed advancing educational digitalization, constructing a learning society, and becoming a learning-oriented nation with lifelong learning for all.

As a new form of education in the digital era, smart education is an inevitable choice for advancing equitable, inclusive, and high-quality education. From the perspective of the digital transformation of education, the new features of smart education are manifested in two aspects. Firstly, the key characteristic of the national or regional smart education ecosystem is the "development goals" of smart education. These goals include student-centered teaching, comprehensive learning assessment, ubiquitous smart learning environments, ongoing improvement of educational culture, and a commitment to inclusive and equitable education. Secondly, the auxiliary constructive features of the smart education system, namely the "practical pathways" of smart education, include the



proactive construction of student social communities, priority support programs for teacher development, ethical technology applications, sustainable education reform plans, and effective cross-sector and cross-domain collaboration.

**Collaborating on forward-looking strategic and policy planning, leading the sustainable development of smart education.**

Policies are the key guarantee for driving the digital transformation of education. The development of smart education is a major undertaking in educational reform that requires systematic planning and scientific planning. It is essential to ensure the normative and orderly integration of technologies like artificial intelligence into the educational ecosystem and utilize new technologies to facilitate the development of precise and efficient educational applications and governance mechanisms. The technological conditions necessary for the development of the

education sector has a certain level of complexity. This complexity necessitates a comprehensive understanding and implementation of public policies that leverage intelligent technologies to promote sustainable development. This should involve the joint efforts and extensive participation of stakeholders and the general public, achieving collaborative construction of the digitized education system by multiple entities.

Governments should advance the development of smart education based on their governance structure and specific

circumstances. They should focus on three strategic leverage points: transforming teaching methods, constructing smart learning environments, and formulating forward-looking policies. It is crucial to consider fairness and inclusion, a culture of continuous improvement, and collaboration across multiple sectors. Policymakers should reevaluate, analyze, and formulate national education policies from aspects such as information infrastructure, digital educational resources and platforms, curriculum and teaching methods, digital literacy and competence, technology governance, and educational administration. Local governments and schools should actively

promote the construction of a new smart education ecosystem. This involves designing and implementing smart campuses and innovative learning environments, improving the effectiveness of learning, operational efficiency of schools, and the efficiency of digital tools and resources. It also includes innovating technology-enhanced personalized learning and differentiated teaching models, along with continuous monitoring. Researchers should strengthen collaboration with frontline education professionals, decision-makers, and administrators to further facilitate smart education's coordinated development.

**Promoting the integration of science and education as well as the fusion of industry and education to support innovative practices in smart education.**

In the interaction of technological progress, social transformation, and educational changes, technology and education gradually form a new pattern of systematic, deep integration across all fields, elements, processes, and businesses. This integration exhibits characteristics of extensive coverage, diversity, and multiple values. Fundamentally, in smart education,

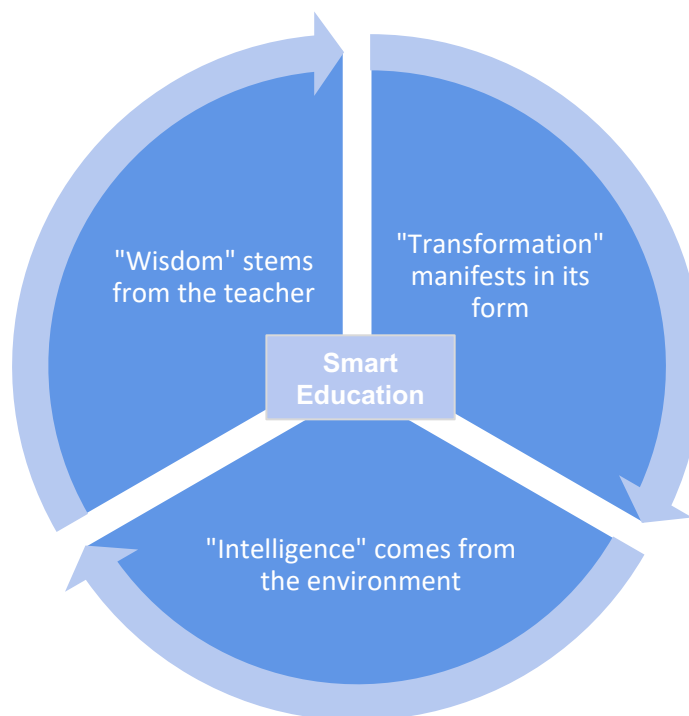
"wisdom" emanates from the teacher; in intelligent education, "intelligence" arises from the environment; and in future education, its "transformation" manifests in its form. The continuous upgrade of the intelligent technology ecosystem will serve students' adaptive growth, support teachers' professional development, and facilitate the intelligent upgrade of learning environments. The integration of



science and education are the driving forces for reshaping the talent cultivation system, while the fusion of industry and education guarantees the resilience of education and the economy. It supports and guides innovative practices in smart education.

To deeply advance the digitalization of education and innovate the development of smart education, the key lies in cultivating the digital thinking of the education system, solidifying digital support capabilities, creating high-quality digital learning content, and constructing a nationwide digital learning public service system. The UN Transformation

Education Summit has initiated the "Gateways to Public Digital Learning" initiative aimed at creating an inclusive digital learning platform and content, forming a global public digital learning resource network. China is implementing its education digitalization strategy by constructing the National Smart Education Platform and launching its international version, updating educational concepts, transforming teaching methods, innovating digital teaching methods, promoting on-demand learning, and creating a new form of smart education enabled by technology, sustainable development, and open cooperation.



**“Seizing the opportunity presented by the Global Smart Education Conference, let us collaboratively embark on the creation of a bright future for smart education that benefits all of humanity.”**

Since its inception in 2020, the Global Smart Education Conference has served as a crucial platform for international collaboration and exchange in smart education. In a bid to drive effective global practices in smart education, strengthen international understanding and international communication, and promote educational reform and innovation, Beijing Normal University (BNU), in collaboration with UNESCO Institute for Information Technologies in Education (UNESCO IITE), the Commonwealth of Learning (COL), the International Society for Technology in Education (ISTE), the Arab League Educational, Cultural and Scientific Organization (ALECSO), and the Southeast Asian Ministers of Education Organization (SEAMEO), has jointly initiated the "Global Smart Education Network (GSENet)". The network has launched the "GSENet Beijing Declaration on Smart Education

Strategies", dedicated to continuously exploring the use of emerging technologies to promote equitable and inclusive high-quality education for all.

As the annual conference of GSENet, the Global Smart Education Conference 2024 will be held in Beijing from August 18 to 20. The conference, themed on "Educational Transformation & International Understanding", will feature plenary sessions, high-level dialogues, thematic forums, roundtable discussions, and workshops on smart education policies, technologies, and practices. It aims to release research findings and collaboration plans, showcase exemplary cases and solutions, and facilitate in-depth exchanges and collaboration to collectively pave the way for a brighter future in smart education for all of humanity.

## CONFERENCE PARTNER

### Organizer

- Beijing Normal University

### Co-organizer

- UNESCO Institute for Information Technologies in Education (UNESCO IITE)

### Hosts

- Smart Learning Institute of Beijing Normal University (SLIBNU)
- Faculty of Education, Beijing Normal University
- Faculty of Psychology, Beijing Normal University
- China Institute of Education and Social Development (CIESD)
- National Engineering Research Centre of Cyberlearning and Intelligent Technology

### Partners

- Arab League Educational, Cultural and Scientific Organization (ALECSO)
- Commonwealth of Learning (COL)
- International Society for Technology in Education (ISTE)
- South East Asian Ministers of Education Organization (SEAMEO) Secretariat
- UNESCO International Research and Training Centre for Rural Education
- Collaborative Innovation Centre of Assessment for Basic Education Quality
- Educational Informatization Strategy Research Base, Ministry of Education, P.R.C
- Higher Education Press
- Publishing House of China Information Technology Education
- Freshreading Press
- Virtual Simulation Experiment Teaching Innovation Alliance

### Call for Partners

The conference sincerely invites educational institutions, research institutions, international organizations, industry associations, and companies to co-organize the conference. Enquiries for cooperation are welcome.

# PROVISIONAL PROGRAMME

## GSE2024

18 August Sunday	8:30-12:00	Opening Ceremony& Plenary Session on Futures of Education and the Role of Digital Transformation		
	14:00-18:00	Forum on Digital Transformation through Smart Education	Forum on Mental & Physical Health: Supporting Personal Development of Adolescents	Forum on Smart Reading
19 August Monday	8:30-12:00	Forum on Digital Transformation of K-12 Education	Forum on Smart Learning Environments and Digital Infrastructure	Forum on AI for Comprehensive Assessment and Evaluation
	14:00-18:00	Forum on Digitalization for Regional Educational Development	Forum on Development and Use of Digital Textbooks	Forum on Smart Learning in Early Childhood Care and Education
20 August Tuesday	8:30-12:00	Forum on AI-driven Innovation in Higher Education	Forum on AI and the Future of Teaching	Forum on Smart Villages and Education for Rural Transformation
	14:00-17:00	Forum on Integration of Education, Technology and Industry	Forum on Digital Education and Lifelong Learning	Forum on Innovation, Research and Best Practices in Smart Education
	17:00-18:30	Closing Ceremony		

## Thematic Events

18 August	15:00-17:00	Forum on Women's Leadership in Smart Education
19 August	10:00-12:00	Forum on China-Africa Cooperation in AI and Education
19 August	15:00-17:00	Forum on Digital Education Development for Small Island Developing States
20 August	11:00-12:00	GSENet Partners' Meeting
21 August	9:00-18:00	UNESCO IITE Governing Board Meeting
20 August	9:00-12:00	Final Review of the 7th Global Competition on Design for Future Education (K-12 Track)
20 August	14:00-17:00	Student Forum on Smart Learning and Future Education Design
18-24 August	9:00-18:00	TVET Leadership and Management Benchmarking Programme (Workshop)
18-20 August	8:00-18:00	Smart Education Exhibition






## PREVIOUS CONFERENCE








## CONFERENCE HIGHLIGHTS

### Attendees

-  **14** Academicians  
**2** Nobel Laureates
-  **1300+** Guest Speakers
-  **90+** Countries

### Forums

-  **1000+** Keynote Speeches
-  **70+** Forums
-  **300+** Regions & Schools




### Enterprises

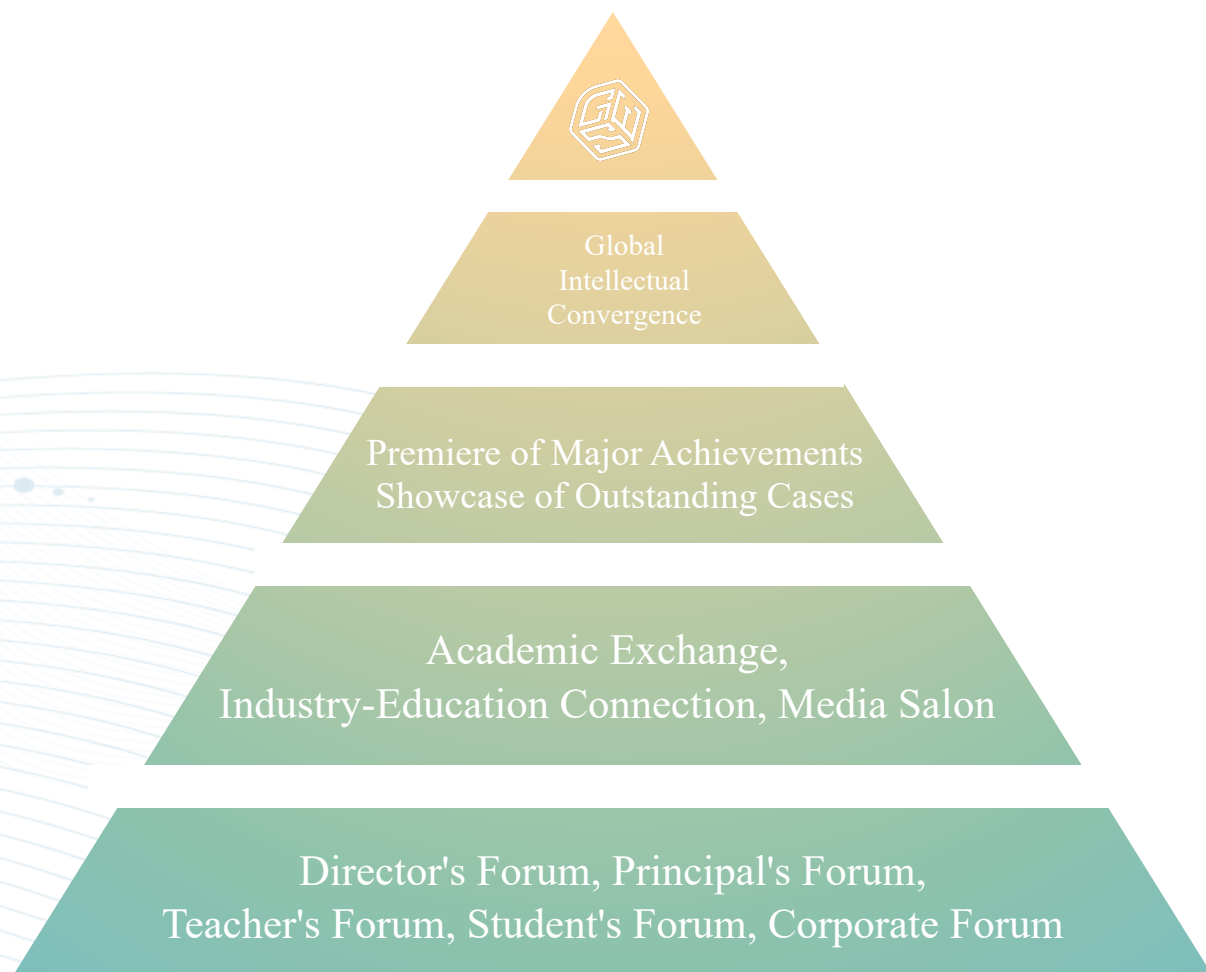
-  **100+** Exhibitors
-  **50+** Sponsors
-  **3** Exhibitions

### Achievements

-  **400+** Best Practices
-  **20+** Research Reports
-  **5** Platforms

### Media

-  **20 million+** Live Stream Views
-  **20+** Live Stream Channels
-  **120+** Supporting Media



## REMARKABLE VIEWS



### ◆ **Stefania Giannini**

UNESCO Assistant Director-General for Education

"The design and use of technology should be in the service of people - to enhance human capacity, protect human rights, and ensure sustainable development. Going forward, inclusion must be the yardstick of every policy. "

### ◆ **Leela Devi Dookun-Luchoomun**

Vice Prime Minister and Minister of Education, Tertiary Education, Science and Technology of Mauritius

"Human well-being should consistently be at the centre of concern in digital transformation, and human intelligence and AI should coexist harmoniously and help each other forward."



### ◆ **Branko Ruzic**

The Then First Deputy Prime Minister; Minister of Education, Science and Technological Development of Serbia

"The practical exploration of China's digital transformation of education has brought great inspiration to Serbia. Serbia is actively improving the construction of educational infrastructure, enhancing the digital ability, promoting the digital transformation of education, and improving the flexibility and quality of education."

### ◆ **Susil Premajayantha**

Minister of Education of Sri Lanka

"Policies for digital transformation play a crucial role, and smart education would undoubtedly significantly promote educational digital transformation."



### ◆ **Azat Atayev**

Vice Minister of Education of Turkmenistan

"The application of digital technology in education is a trend for future development. With the development of network technology, online learning methods and traditional education models will gradually be integrated. "

### ◆ **Mahmoud Zouaoui**, Chief of the Staff of the Ministry of Higher Education and Scientific Research of Tunisia

"We must fully recognize the risks associated with privacy protection, information security, and internet misuse in the digital transformation of education. Strengthening infrastructure and multi-stakeholder collaboration are necessary to ensure fairness and security in education and enhance students' learning experiences."







### ◆ **Asha S. Kanwar**

President and CEO of the Commonwealth of Learning

"Smart education should be pleasant, engaging, efficient, effective and moral."

### ◆ **Mohamed Ould Amar**

Director General of ALECSO

"Great energy of science and technology in educational transformation is currently promoting AI-related projects in member countries, launching educational platforms to help the younger generation enter the metaverse world."



### ◆ **Mammo Muchie**

Fellow at the South African Academy of Science

"The international community should work together to build a cyberspace and a cyberspace community of a shared future of peace, security, openness, cooperation and order. 'Inclusivity' should become the core essence of education policy-making in all countries."

### ◆ **Worsak Kanok-Nukulchai**

Fellow of the Royal Thai Academy of Sciences

"Artificial intelligence is the 'new electricity' of the intelligence era. The democratization and widespread application of artificial intelligence can promote equality and fairness in ten aspects, including improving accessibility and quality of education, enhancing healthcare, boosting agriculture, growing local businesses, and establishing communication networks. "



### ◆ **Mark Boris Andrižanič**

Former Minister of Digital Transformation of Slovenia

"Five guiding principles for leading digital transformation include: ensuring that no one is left behind, breaking free from traditional thinking patterns, early engagement, increasing engagement through enjoyment, and establishing collaborative relationships. "

### ◆ **Montserrat Creamer**

Former Minister of Education in Ecuador

"We can build a new rural education paradigm through blended learning, teacher training, community and family involvement, and multi-grade cooperative learning to ensure the sustainable development of rural education."





## ◆ **Richard Culatta**

CEO of ISTE

"Teaching young individuals the principles and practical skills of AI is essential to empower them in utilizing AI to find solutions to problems. However, it is equally important to cultivate uniquely human attributes such as empathy and compassion."

## ◆ **Christopher Dede**

Professor of Harvard University

"Artificial intelligence and machine learning have become partners to humanity, playing a significant role in various professions by providing the necessary knowledge and skills."



## ◆ **Rebecca Eynon**

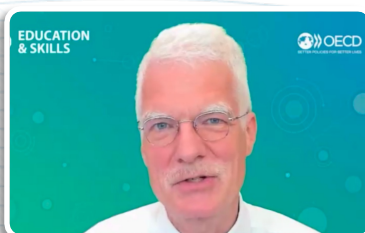
Professor of University of Oxford

"It is crucial to shift our focus towards acknowledging the growing influence of computer scientists, physicists, and engineers in this field, rather than overly concentrating on educators and their perception of the future of education."

## ◆ **Eugene G. Kowch**

The Then President of AECT

"The application of AI and VR technologies is transforming traditional learning environments, leading to a reform in learning methods and educational systems."



## ◆ **Andreas Schleicher**

Director for the Directorate of Education and Skill, OECD

"The effectiveness of technology depends on students' initiative, self-management, and mastery of learning strategies."

## ◆ **Habibah Abdul Rahim**

Director of SEAMEO Secretariat

"In Southeast Asian countries, two key consensuses have been reached in advancing digital transformation in education: firstly, promoting policy formulation and nurturing digital leadership among policymakers, and secondly, responding to local needs and encouraging community participation."







### ◆ CHEN Jie

Vice Minister of Education, P.R.China

"As a new form of education in the digital age, smart education is an inevitable choice for us to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all. "

### ◆ ZHAO Qinqing

Academician of Chinese Academy of Engineering

" In the era of intelligence, learners expected a more flexible, ubiquitous and networked environment of smart learning to realize cooperative and inquiry-based 'real' learning by combining virtuality and reality. "



### ◆ PAN Yunhe

Academician of Chinese Academy of Engineering

"With the advent of the big data era, the world has entered the ternary space, which means the new information space has emerged, compared with the previous binary space. "

### ◆ ZHANG Jun

Academician of Chinese Academy of Engineering

"Green education, driven by such technologies as data acquisition, knowledge graph, metaverse, and large language model (LLM), realized thorough perception of education through the data acquisition of teaching resources, performance status and teaching effect. "



### ◆ WU Hequan

Academician of Chinese Academy of Engineering

"5G technology has promoted the upgrades of high-definition video and VR/AR/MR. It realized not only the low-delay live-streaming for teacher-student real-time interaction but diverse functions including virtual teachers and teacher assistants, promoting the innovation of talent cultivation mode."

### ◆ LV Jian

Academician of Chinese Academy of Science

"Educators should integrate and unify the way of educating people, the way of the great learning, and the way of the times."







### ◆ DU Zhanyuan

The Then Vice Minister of the Ministry of Education, P.R.China

"Increasing efforts to promote the deep integration of information technologies and education and reforming the education system under the framework of traditional industrial society are the necessary ways to achieve the development goal of the Education Modernization 2030 Plan."

### ◆ WANG Yaonan

Academician of Chinese Academy of Engineering

"The digital technology system, centred around memory technology, perceptual technology, action planning, and machine learning, constitutes a highly autonomous and networked closed-loop control system, serving as the cornerstone for diverse application scenarios. "



### ◆ CHEN Xiaohong

Academician of Chinese Academy of Engineering

"In addressing the challenges posed by digital intelligence technology, and in cultivating future talents, higher education institutions should prioritize interdisciplinary collaboration and innovative education. The emphasis should be on nurturing innovative, applied, and versatile talents."

### ◆ Wushouer Silamu

Academician of Chinese Academy of Engineering

" Future intelligent education will undergo improvements in both teacher resources and instructional resources. This involves leveraging research outcomes based on accumulated scenario data and high-quality teaching methods. By relying on image recognition, speech recognition, and adaptive technologies, intelligent systems will intelligently match relevant instructional content, creating artificial intelligence courses to enhance the availability of high-quality teacher resources. "



### ◆ ZHANG Jingzhong

Academician of Chinese Academy of Science

"The discipline-based education software is resilient and dynamic. The mathematics intelligent education software can reduce the difficulty of teaching, increase the fun of teaching, and promote the digital transformation of education."

### ◆ MO Yan

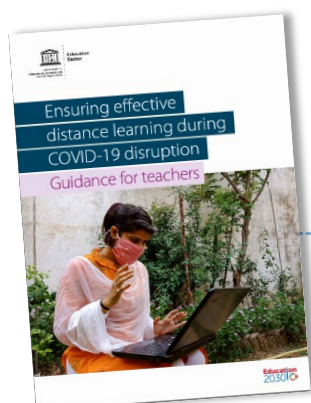
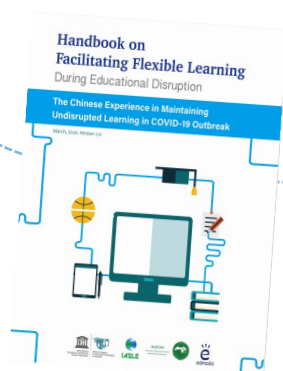
Nobel Laureate in Literature

"Lifelong learning becomes exceptionally important in the age of intelligence. To stay in sync with the times and avoid becoming obsolete, individuals must continually keep pace with new developments and learn new things."





# CONFERENCE OUTCOMES



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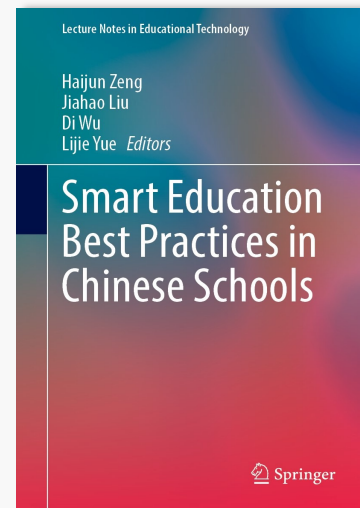
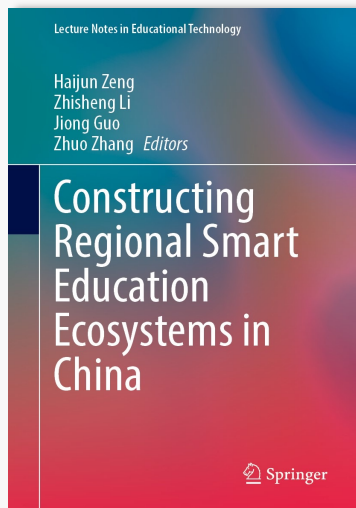
## Call for Cooperation

Since 2016, the conference has provided a platform for the release and display of dozens of major research results and projects. Research teams are welcome to inquire about the release of results.



## CASE COLLECTION

The conference plans to carry out a collection activity for outstanding cases and solutions in the field of smart education.



## EXHIBITION

The conference plans to call for exhibits of intelligent education equipment, system platforms, tool software, digital resources, integrated solutions, application cases, projects, and research results from relevant enterprises, educational institutions, and research institutions in the field of smart education.



# INTENDED INVITATION TO MEDIA





# Invitation

- We cordially invite academicians from around the world in the field of education, technology and industry, experts, scholars, international organization representatives, government officials, principals, teachers, students, as well as corporate and media guests to deliver speeches;
- We cordially invite policymakers, researchers, practitioners, technology developers, teachers, students, and corporate representatives from the field of smart education worldwide to attend the conference;
- We cordially invite educational institutions, research institutes, international organizations, industry associations, and companies to co-organize the conference;
- We cordially invite regions, schools, enterprises, and research teams to participate in the collection activity of excellent papers, cases, and solutions in the field of smart education;
- We cordially invite relevant enterprises, educational institutions, and research institutes in the field of smart education to exhibit intelligent education equipment, system platforms, tool software, digital resources, integrated solutions, application cases, projects, research achievements, etc.

Global Smart Education Network

Organizing Committee of GSE

—Official Website—







## Global Smart Education Conference Secretariat



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