

**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 needs evidence.**

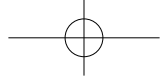
-Dean Ronghuai Huang, delivered at the closing ceremony of the Second US-China Smart Education Conference on March 20, 2017



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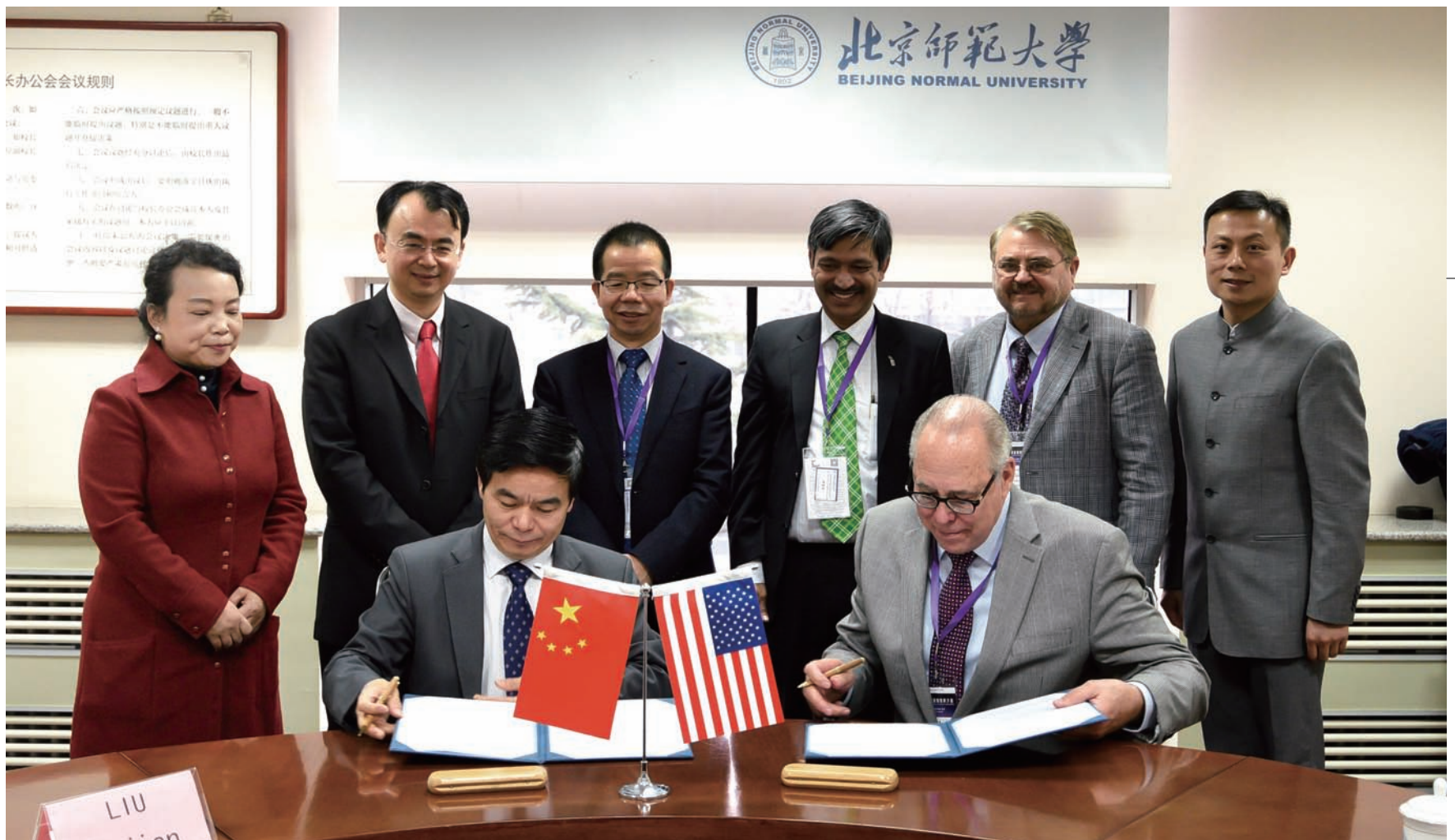
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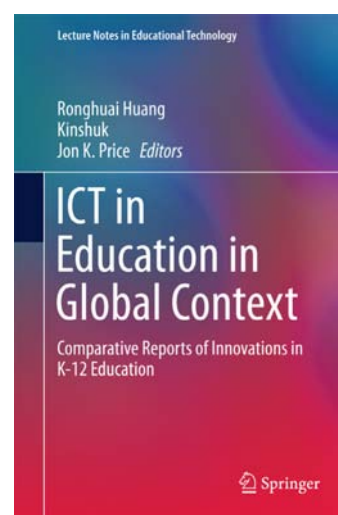


Important Events [10-19](#)

- ▶ 2017 Academic Week on Smart Learning and Artificial Intelligence
- ▶ The Second US-China Smart Education Conference
- ▶ The Smart Learning Academic Workshop: Visual Reality and Education
- ▶ 2017 International Workshop on Immersive Learning and VR Educational Application



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Features

E ditor's Note

Xiaolin Liu, a scholar with continuous improvement, Lanqin Zheng, an explorer in academic sector, Micheal Spector, an elderly fighter who keeps exploring, Kekang He, an creative expert who is strict with scholarship, Tingwen Chang, a friendly director who builds the connection between SLIBNU and institutes in other countries, Rongxia Zhuang, a scholar who regards data as the meaning of her life, Tao Li, an explorer in big data, Teng Wang, a VR Education Star, Qinzhi Cai, an enthusiastic person in offering help, Dianyun Li, the guardian of SLIBNU ...

They devote themselves to SLIBNU with their strong mind and virtue, which impress us a lot.

On 20th, January, 2017, top ten touching stories ceremony was held. Ten people, recommended by SLIBNU, were cited for their good deeds in 2016. When 2017 is coming, let's remember those affections in 2016 and do more good deeds in 2017.

Submitted by Yuling Gong

Top Ten Touching Stories of SLIBNU in 2016



1 Prof. Michael Spector

Already a founder when he was young. Still an explorer when he was aged. For writing articles, he gives up the opportunity of family reunion and leads scholars in SLIBNU to explore.



2 Prof. Kekang He

Critical and creative, he is strict with scholarship. His reports are presented in countless academic conferences and his book is accepted by Book Citation Index. He is the model of us.



3 Prof. Rongxia Zhuang

Prof. Zhuang is strict with scholarship and brave to face the challenge. With extreme patience, she treats the data of every single paper and report carefully. She is always the model of us.



4 Dr. Tingwen Chang

Fostering an interaction between SLIBNU and institutes in other countries as well as trying hard in the exploration of "The Belt & Road", he builds the connection between SLIBNU and the world.



5 Dr. Lanqin Zheng

Prof. Zheng can explain the profound ideas in simple words in experimental school. She can quote others' reports extensively on international conferences. She can explore her ideas in academic sector. She is the model of us.



6 Dr. Teng Wang

Creative and conscientious, he is a versatile person who can handle business negotiation, difficult problems and technology development. With only 45 days, 20 manufacturers and 900 square meter, his Smart Education Pavilion impressed everyone. In people's eyes, he is the VR Education Star.



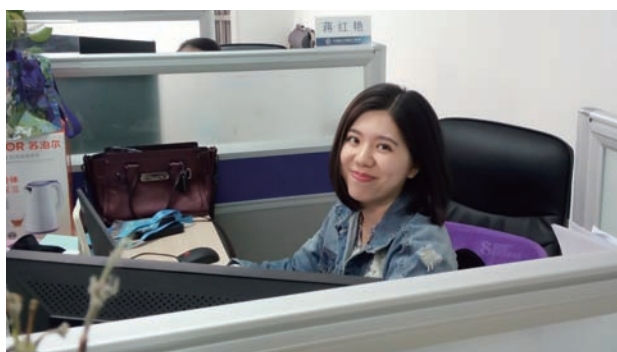
7 Tao Li

Drawing on others' successful experience and pursuing perfection, he creates countless ideas and data. With his persistence, he finishes his work flawlessly.



8 Dr. Xiaolin Liu

Searching literature, surveying people and interviewing experts, she regards paper as the meaning of her life. Her persistence in learning is worthy of admiration. She is a scholar with continuous improvement.



9 Qinzi Cai

"Whenever needed, I will come to help." She works hard in many departments such as International Cooperation Center, Smart Learning Environment Lab and National Engineering Lab.



10 Dianyun Li

Prof. Li comes to work early and leaves off late. In 365 days, he sticks to his post, looks after every single plant and arranges every single document carefully. He is the guardian of SLIBNU.

Reviews of SLIBNU Big Events in 2016

1

SLIBNU held the 1st US-China Smart Education Conference and released the 2016 NMC Technology Outlook for Chinese K-12 Education

On January 14-15, more than 200 people from more than 20 famous primary and secondary school and school district representatives in China and US and representatives from all walks of life of both home and abroad attended this conference. The Horizontal Report-Version of Chinese Education (in English and Chinese) was issue at the same time. This was the first time that New Media Consortium (NMC) issued a report in respect of China.



2

SLIBNU held the VR Technology Industry-University-Research Workshop

On February 28, SLIBNU, China VR and Visual Industry Alliance and NetDragon Websoft Inc. jointly held the workshop at NetDragon's base at Changle, and the workshop was attended by top VR experts.



3

SLIBNU held the Academic Week of Smart Learning and VR in Educational Application and released White Paper on the Development of MOOCs in China

From March 18 to 24, more than 1,000 people including professionals from the industry and teachers and students, participated in the Academic Week activities. During the week, White Paper on the Development of MOOCs in China was released and published.



4

SLIBNU held the International Expert Discussion Forum of Programs under the Belt & Road OER Community

On April 21, professionals and scholars from China, the Netherlands, Canada and India attended the discussion forum and demonstrated the feasibility of the programs under the Community.



5

SLIBNU released 2016 Index Report of Smart Learning Environments in Chinese Cities

On May 29, the report was released at UrbanTec Asia Conference @ CIFTIS 2016, which was the first official analysis of city smart learning environment data and the detailed report was also published.



6

SLIBNU sponsored two international forums for education informatization

On June 21, SLIBNU and the education management information center of Ministry of Education and Collaborative & Innovative Center for Educational Technology jointly sponsored "Forum on National Strategy, Policy and Leadership in Education informatization".

On June 23, in the Qingdao International Congress on ICT in Education, the SLIBNU and the education management information center of Ministry of Education jointly sponsored "informatization Leadership and Educational Reform" Forum and experts from China.



7

Dean Ronghuai Huang visited National Science Foundation (NSF)

On July 19, Dean Ronghuai Huang, together with National Natural Science of China, visited National Science Foundation (NSF), further communicated education technology plan and progress between US and China.



8

SLIBNU sponsored "The Belt and Road" OER International Federation Experts Discussion Forum

On August 16, the responsible person for information technology education of UNESCO's headquarter in Paris attended the conference and conducted discussion forum and laid foundation for the global OER community.



9

SLIBNU released 2016 Global Educational Robots Development White Paper

On September 10, this White Paper was released on 2016 International Service Robot Industry Summit. It is the first white paper in the field of educational robots based on detailed survey data.



10

SLIBNU completed the arrangement of Smart education experience museum in Baotou of Inner Mongolia

In October, SLIBNU planned, designed and arranged the Smart education experience museum for Education Bureau of Baotou City.



11

SLIBNU sponsored "The Belt and Road" national education cooperation consultative conference and released the "The Belt and Road" National Education Development Research

On November 25, "The Belt & Road" national education cooperation consultative conference was held. More than 30 non-school organizations and school units as well as famous experts attended the conference and conducted expert consultation focused on the released report.



12

SLIBNU sponsored "Summit Forum for Cultivation of Design, Computing and Creative Thinking" and released "2016 Index Report for China Internet Education Product Development"

On December 9-10, during the "2016 China's International Education Exhibition" (National Conference Center), 2016 Index Report for China Internet Education Product Development was released and the Internet education product development index was first released.



The "National Engineering Laboratory of Smart Technology and Application for Internet Education" declared by SLIBNU was approved

In December, "National Engineering Laboratory of Smart Technology and Application for Internet Education" was approved. SLIBNU will be responsible for the implementation of two directions of "Knowledge Modeling and Analysis" and "Design and Evaluation of Learning Environment".

2017 Academic Week

on Smart Learning and Artificial Intelligence

Introduction

On March 18-24, upon the 2nd anniversary of establishment, the annual academic activity was sponsored with a theme of "Smart Learning and Artificial Intelligence".

5 Lectures, 200+ on site listening, 1000+ online watching



Think as a Product Manager

"Products are everywhere in today's world and people should think as a Product Manager"

Guest: Tian Lan, general manager of NetDragon Websoft



"Pandora" in the design of Smart learning environment

"Using technology to improve environment and use environment to support Smart learning"

Gues: Haiguang Fang, professor of Capital Normal University



Collaborative learning supported by computer

"Computer is an important tool for supporting Smart and efficient collaborative learning"

Gues: Lanqin Zheng, lecturer of Beijing Normal University



15-year Development of International Open Education Resource (OER):

"Open education resource for 15 years, achievements exist together with problems"

Gues: Xiaochen Wang, associate professor of Capital Normal University



Large scale knowledge through construction and completion:

"Large scale knowledge through construction and completion-complex and simple learning"

Gues: Zhichun Wang, associate professor of Beijing Normal University

The Academic Week on Smart Learning and Artificial Intelligence attracted more than 500 people for visiting SLIBNU.



The Second

US-China Smart Education Conference

Introduction

On March 18-20, the "Second US-China Smart Education Conference: Higher Education Smart Learning Outlook" mainly sponsored by Beijing Normal University and jointly undertaken by Smart Learning Institute of Beijing Normal University and The New Media Consortium (NMC), was held in the Yingdong academic hall of Beijing Normal University. China Association of Higher Education, the Chinese Society of Education and the International Association for Smart Learning Environment (IASLE) provided support and instruction. Guests such as vice minister of Ministry of Education Du Zhanyuan, President of Beijing Normal University Qi Dong, chairman of Chinese Society of Education Binglin Zhong, Executive Director of NMC Edén Dahlstrom, president of University of North Texas Neal J. Smatresk, etc. attended the conference. The conference focused on informatization of higher education and "double first-rate construction" and released 2017 NMC Technology Outlook Chinese Higher Education: A Horizon Project Regional Report.



Conference Venue





Vice Minister of Ministry of Education Zhanyuan Du

Zhanyuan Du: develop education informatization, promote education modernization 2030

➤ Education focused on 2030, shall be more open and break through the limits of time and space as well as the restriction of education groups, with learning access to everyone for everywhere; it shall be more suitable and achieve classified education with no discrimination; it shall be more people-oriented with more attention on the students' spirit and happiness; it shall be more equal to enable all children to obtain high-quality education resources; it shall be more sustainable and emphasize on the cultivation of learning ability and requirements of life education. Therefore, it is the only way to realize the 2030 development goal of educational modernization by strengthening the deep integration of information technology and education, and by reforming of education system under the framework of traditional industrial society.

The world's education development is in need of international communication and cooperation reinforcement, and sharing the experience of success and development. This conference provided us with a platform for discussion and sharing, and more importantly, it is an opportunity for cooperation, we are more looking forward to that the scientists, experts and scholars in China and the United States can play positive leading roles in this field, to mutually promote the future development of education.

(Excerpted from the address of Vice Minister Zhanyuan Du on March 19, 2017)

Qi Dong: Developing "Internet + education", promoting "double first-rate" construction



Qi Dong, President of Beijing Normal University

Universities shall take their own advantages and features into account for the "double first-rate" construction. In the informatization era, there are many challenges for reform in information teaching and cultivating mode of teachers. This is also a mutually exploring question discussed by today's universities. In the process of "double first-rate" construction, Beijing Normal University has made a lot of efforts in the aspect of establishing research platform, talents platform, international cooperation platform for education information technology. For the sake of the next generation of China and the world, we need to implement deep integration of technological development under the background of "Internet+" with education, so as to facilitate fair education and improve education quality.

The experience discussed and shared in the conference by experts in China and the United States is not just playing a positive and significant role for the participants, but with significant enlightenment for scientific research and talents cultivation in the field of smart education.

(Excerpted from the address of President Qi Dong on March 19, 2017)



Chairman of Chinese Society of Education

Binglin Zhong:

The universities connotation development shall be reinforced through "education ideology upgrading, deepening reform on talents cultivation method, reinforcing construction of human resources and material resources, consummating systems of modern universities, improving international level of education, creating favorable campus culture" etc., to promote "double first-rate" construction of universities.



President of University of North Texas

Neal J. Smatresk:

Neal J., Smatresk, President of University of North Texas introduces how universities cope with various challenges faced in the development process of universities in the United States through education innovative technology by using the case study of University of North Texas.



Academician of the Chinese Academy of Engineering

Jingwen Li:

Mr. Jingwen Li, Academician of the Chinese Academy of Engineering at the age of nearly 85, suffering from serious amblyopia, but sticks to share the keynote speech on "where should the education go in the age of artificial intelligence" for everyone, telling us that the future artificial intelligent has unlimited development potential to achieve intelligent and interactive learning; meanwhile, we are also reminded of what is the co-called one is never too old to learn.

55 experts and scholars from China and the United States discuss higher education information and "double first-rate" construction

The conference invites 55 special guests at home and abroad, and attracts more than 260 representatives participating in the conference, besides, there are more than 60 guests making reports in 7 forums. International live online broadcast is adopted for the whole course of conference, with 1,000-2,000 online participants. 1,000-2,000.

- ▶ **Artificial Intelligence (AI) and Application in Education**
- ▶ **Innovative Talent Cultivation and Collaborative Development of Production, Learning and Research in Universities**
- ▶ **Information-based University Human Resource Establishment and Management**
- ▶ **Modern University Governance Based on Big Data and Information Technology**
- ▶ **Professional Development of University Teachers in Digital Era**
- ▶ **Learning Activity Design and Blended Learning**
- ▶ **A New Generation of Digital Campus Establishment in Universities**



Kinshuk, Dean of the College of Information, University of North Texas



Marcus Childress, Dean of Education, Baker University



Brenda Knox, Director of Online Education of Wake Forest University



Charles Snare, Vice President of Chadron State College



Niki Whiteside, Vice President of San Jacinto College



Professor of Nanyang Technological University



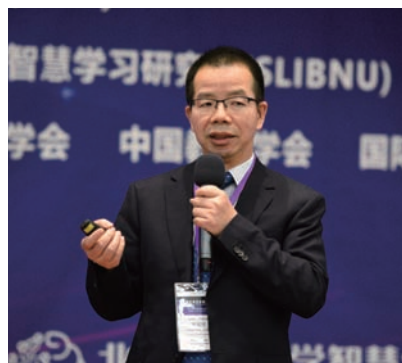
Patricia Prado-Olmos, Vice President of California State University



Michael Berman, Vice President of California State University

Releasing 2017 NMC Technology Outlook Chinese Higher Education: A Horizon Project Regional Report

The report finally determines 9 major key trends to facilitate technology application for China's higher education, 9 major challenges affecting technology application and significant development of 12 education technologies.



Ronghuai Huang, Co-Dean
of SLIBNU



Eden Dahlstrom, Executive
Director of NMC

9 Major Key Trends:

Short-term (increasing use of blended learning designs, proliferation of OERs, rise of STEAM learning);

Medium-term (increasing cross-institution collaboration, redesigning learning spaces, rethinking how institutes works);

Long-term (advancing cultures of innovation, the rise of coding as literacy, shift to deep learning approaches).

9 Significant Challenges:

Solvable (blending formal & nonformal learning, improving digital literacy, integrating technology in teacher education);

Difficult (managing Big Data in education, personalizing learning, scaling teaching innovations);

Wicked (balancing connected & nonconnected life, rethinking the roles of educators, teaching complex thinking).

12 Important Developments:

≤ 1 yr (flipped classroom, mobile learning, makerspace, massive open online courses (MOOCs));

2 ~ 3 yrs (augmented & virtual reality, leaning analytics & adaptive learning, quantified self, virtual & remote labs);

4 ~ 5 yrs (affective computing, machine learning, robotics, volumetric & holographic displays).



Signing of two MOUs

Qi Dong, President of Beijing Normal University and Neal J. Smatresk, President of University of North Texas signed the MOU between the two universities, and agreed to establish joint research and development laboratory.



President Qi Dong and President, Neal J. Smatrest are signing the MOU

Dejian Liu Co-Dean of SLIBNU and Eden Dahlstrom, Executive Director of NMC jointly signed strategic cooperation framework agreement between the two institutions, to strengthen deep cooperation.



Co-Dean Dejian Liu and Dr. Eden Dahlstrom are signing the MOU

Media Reports

At 6:30pm March 19, the release of 2017 NMC Technology Outlook Chinese Higher Education: A Horizon Project Regional Report was reported in China Education Report under China Educational Television (CETV).



Report on CETV

Over 100 media reported the conference, including China Education Daily, Tencent, Journal of China Audiovisual Education, Journal of E-education Research, Chinese Science News, etc.



Exclusive report by China Education Daily

The Smart Learning Academic Workshop: Visual Reality and Education

On January 4, 2017, the Smart Learning Academic Workshop (phase 1): VR and Education was held in SLBNU. Over 30 academic members, including Mingyuan Gu, Senior Professor of Beijing Normal University; Qingping Zhao, Academician of the Chinese Academy of Engineering; Binglin Zhong, President of Chinese Education Society; Kekang He, Professor of Beijing Normal University etc., carried out free discussion for the topics on "the present and future of visual reality", "relationship between visual reality and cognition", "impact of visual reality on education".



The Smart Learning Workshop: VR and Education



Photo of experts

2017 International Workshop on Immersive Learning and VR Educational Application

On January 13-15, 2017, 2017 Immersive Learning and VR Education Application International workshop was held in Harvard University, Boston, US. Over 40 top experts from China, US, UK, Germany and Spain participated in this conference. In the duration, Harvard University, SLIBNU, Netdragon Websoft Inc. signed the MOU.



Photo of experts



Signing the MOU at Harvard University

Project Status in 2017

"Design and learning" course design and publishing

The project team conducted comprehensive description for 300 books on design thinking and design methodology, and established cooperation with Science Press. Besides, the project team established relationship with the research group on policy planning of national innovative design, and conceived the thought scheme of design methodology - university design education - education platform of innovative design.

Research Report of Modern Education Service Industry

The project team held phased work conference with multiple experts and representatives from the industry, to mutually discuss report evaluation system, evaluation dimension of service quality, service evaluation model etc., and clear the key emphasis in work for the next stage.

Report of Smart Learning Environments in Chinese Cities

The project team convened working conference, to discuss contents including project scheme, treatment method of data collection, project result and presenting method etc., and clear the specific working content for the next step.

"The Belt & Road" OER Community

The project team completed the action plan of "The Belt & Road" open educational resource community, and published Research on National Education Development under "The Belt & Road", besides, it will hold culture and education high-end forum in April under the strategy of "The Belt and Road" Initiative.

Information Teaching Research Center Subject Research launches officially

By the official launching of subject "Case Study on Information Technology Promotes Equalization of Education" which is applied by China Educational Equipment Industry Institute. The subject will be implemented in Fuquan, Guizhou, Baotou, Mongolia, Qingyang, Gansu, Xuanhua, Zhangjiakou and other experimental sites.

Beijing Bayi School Education Information Consultation Project

Organizing committee of "Bayi School Education Information Consultation" project entrusts SLIBNU and other professional institutes to conduct professional, systematic and in-depth survey and diagnosis on the schools (5 school district) for the development status of information construction, and complete action plan for becoming 1st class modern schools.

Successful releasing of "13th Five Year Development Plan (Year 2016-2020) on Smart Education of Ningbo"

Entrusted by Ningbo Education Bureau, SLIBNU finishes Ningbo Intelligent Education "13th Five Year" Development Planning (2016-2020) Scheme, and the scheme passes the argumentation and review of specialists in Ningbo Education Bureau. On March 29, Ningbo Education Bureau issued documents to related units.

Report of the Cyberlearning Products Development Index in China

The project team convened work planning conference for 2017, to conclude the work experience for 2016 and clear the work emphasis and direction for 2017.

Big Data Platform for Index of Smart Learning Environment in Chinese Cities

The project team conducted technical investigation towards the related companies, and carried out deep communication and discussion aiming at data visual treatment technology and presenting method.

Tripartite signing of Cooperation Agreement about Cross-Regional Intelligent Education Development Strategy

SLIBNU, Ningbo School Equipment Management with Audio-Visual Education Center and Inner Mongolia Baotou Audio-Visual Education Institute sign tripartite cooperation agreement of cross-regional intelligent education development strategy. Mainly including: Research on regional education development and education management reform, forging brand (demonstration) project, building intelligent education characteristic project, deepening the cooperation in different aspects such as high quality resource sharing and application etc.



Book Citation Index

Recommended Books

Introduction

Invited by Springer, mainly edited by Dean Ronghuai Huang, more than 10 volumes of Lecture Note in Educational Technology have been published. Among these volumes, 5 volumes are included in Book Citation Index database.

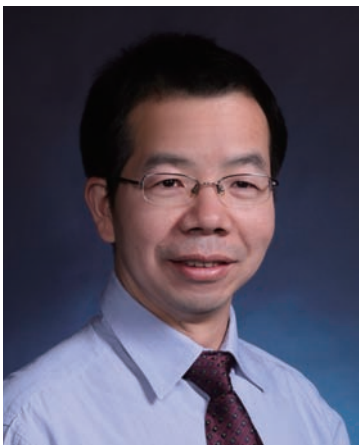


Must-Read Article

Basic Pattern of the Education Transform Contributed by Internet

Introduction

One is the design master with more than ten years of experience on Internet product design, the other one is the academic master who witnesses the development of Internet and remote education since the "Internet education" at the beginning of the century. The crossover masters discussed and negotiated for many times, they jointly wrote the article about the subject of "Internet+" education. The article serves as a modest spur in the beginning of the new year for us to make us understand the basic pattern that Internet promotes the education reform in the next 10 years, even the next 20 years.



Co-Dean Ronghuai Huang



Co-Dean Dejian Liu

Abstract:

The article reviews the change of education formation during the civilization of human, deeply analyzes the key characteristics of education in industrial age and education in information age. By analyzing the basic elements and their relationship of evolution of Internet education deeply, the article proposes the frame of basic element of evolution of Internet education - **"Nine-Rectangle-Grid" map of Internet education** and tendency model of evolution of Internet education - **"Butterfly Effect" of Internet education**, both represent the basic pattern that Internet contributes to the education reform. Facing the way of thinking and behavior inertia of "double bases" education in industrial age and facing technical driver and consciousness for change in information age are the two main potential energy in transformation period of contemporary, they will effect each other, penetrate mutually and play game in a long term.

-Huang, R., Liu, D., Liu, X., & Xu, J. (2017). Basic Pattern of the Education Transform. *China Educational Technology*, (1), 7-12.

Exclusive Interview



Character: **Yuan Gao**

Doctor of Educational Psychology,
University of New South Wales,
Australia;
Senior Researcher and Director
of laboratory on open education
resources, Smart Learning Institute
of Beijing Normal University

Q Hello, Dr. Gao, could you please briefly introduce about your work during the two years in SLIBNU?

A It's been two years for me in SLIBNU, so it can be said that I've been growing with the institute and also witnessed its gradual development and expansion. During the two years, I was mainly in charge of management work on Project Horizon in China region (abbreviated as "Horizon Project in China"), apart from that, I also took part in relevant researches on "virtual reality" as well as on "cognitive load issues in smart learning environment". In broad sense, Horizon Project in China not only covers research and writing of Horizon Report, also concerns report conference, the "US-China Smart Education Conference" there after and related academic research on Horizon Project.

Q It appears that Horizon Report of Chinese version is like a child, which grows and comes into publication under your attention. Do you have any words that you wish to say?

A Yes, there are so many to talk about. First, selection for expert team. The selection for expert team adheres to principle of equality, openness, fairness and normalization, not only to balance factors of geographical distribution, source classification, position level and school level that experts and scholars have, but also need to comprehensively consider their professional integrity, academic achievement, professional impact as well as their ability on this work. Finally, a total of 85 experts volunteers to join expert committee; they are from East China, South China, Central China, North China, Northwest, Southwest, Northeast, Hong Kong, Macao and Taiwan region. Expert committee contains experts and scholars and the Audio-Visual Education Centers of ten categories as education management department, equipment and experiment system in

colleges and universities, adult network education as well as technical education. Meanwhile, 39% experts are from universities of "985 Project" and "211 Project", 43% from common colleges, and 18% from other institutions such as educational technology enterprises and media.

Second, master on time nodes of Project. Since the beginning of project, we have formulated a specific time schedule. However, members of expert committee are usually busy on work and not very familiar with operations of Wiki platform, which lead to a slow procedure of the Project promotion. Our response methods for that include: create a Wechat group for experts, aiming to communicate with experts in time and to make them know about procedure and every time node; explain and instruct on their questions; send summary of common questions on Wiki operations in form of E-mail and Wechat group; make Wiki operation video to provide experts with intuitive step instructions and adopt encourage mechanism by electing "Outstanding Contribution Award" in expert committee.

Third, the inter-translation between Chinese and English. We need to work on correct and appropriate inter-translation on research achievement of Chinese experts and the instructions and documents provided by New Media Consortium during process. For research quality, this

work is of great difficulties and workload, imposing a real challenge for the whole Project.

Q As the director in laboratory on open educational resources, do you have any idea about its future development?

A Laboratory on open educational resources is one institute established under Smart Learning Institute. In the long term, the laboratory will stick to make scientific research as the main purpose, while combining functions of Project management and international cooperation. Under "The Belt & Road" policy, we will focus on opening educational resources to cooperate with countries along "The Belt & Road" and other international cooperative partners, to jointly initiate more related academic researches and publish more reports with great reference value. Moreover, we will coordinate with demands of other teams in institute, to provide support for scientific research and Project management.

Submitted by Lijie Yue