

# Jingshi

## Wisdom & Learning

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Be in awe of education, for it shapes the soul of human,  
Be cautious to technologies, for its adoption has to be effective,  
Be entangled with 'wisdom', for uncertainty tends to be increasing,  
Be serious to academics, for academic research requires evidence.

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



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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-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.

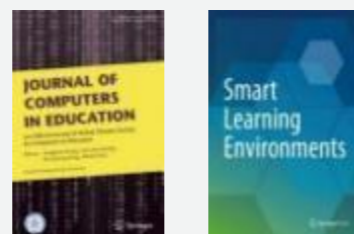
### Open Series in Springer

- 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



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



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- Yuanzhuo School | A themed seminar on educational application experiment of generative AI

- BNU Research Team Presents Achievements at the 6th Digital China Summit
- The Launching Ceremony and Implementation Plan Demonstration Meeting of the "Key Technology Research and Application Demonstration of Intelligent Computing in Learning Environments" Project
- Seminar on Computational Thinking and STEM, along with the Annual Work Meeting of the Bebras China Community, Was Held at Beijing Normal University.



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- Meeting with the Secretary General of the Ministry of Higher Education and Scientific Research of Tunisia and Visiting Some Institutes
- Prof. HUANG Ronghuai Invited to International Scientific Conference in Serbia
- Prof. HUANG Ronghuai Invited to Thailand

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- HUANG Ronghuai: Thoughts and Recommendations on Using ChatGPT in Education
- Intelligent Technology Enabling On-demand Learning: Theoretical Progressions and Elemental Representations
- AI: UNESCO Mobilizes Education Ministers from Around the World for a Coordinated Response to ChatGPT



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## Features

# The 6th Global Competition on Design for Future Education

## The First Session of the Reading Club



To assist participants in deeply understanding the future challenges of education and to improve their topic design, the competition committee held the first session of the "Online Reading Club" on April 13th with the theme "Jointly Imagining the Future of Education". This reading club was freely available to all contestants, inviting teachers and students to jointly read the UNESCO report on the "Future of Education" global initiative - "Reimagining Our Futures Together: A New Social Contract for Education".

## The First Lecture



On April 18th, the first lecture of the 6th Global Competition on Design for Future Education was successfully held. The lecture focused on "Reshaping Learning Methods and Enhancing Creative Thinking" as its theme, inviting experts from the fields of education and design to explain gamified learning and visual design related knowledge, aiding contestants in designing better works.

Shang Junjie, tenured associate professor at Graduate School of Education, Peking University, and the executive director of the Learning Science Laboratory, shared his knowledge in a presentation titled "Reshaping Learning Methods — The Value and Future Development Trends of Gamified Learning," drawing on his nearly 30 years of experience in gamified teaching. He pointed out that joyful education will be the direction of future education, and by integrating games with education, learning can be made more scientific, more enjoyable, and more efficient.



Bai Yuening, mentor of The 6th Global Competition on Design for Future Education, winner of 2020 Red Dot Design Award, focused on the theme of "Enhancing Creative Thinking — The Expression and Embodiment of Visual Design." She elaborated from two perspectives: content expression and mode of expression, by incorporating design works from participants in past competitions.

## Case Guidance Meeting for Elementary and Secondary School Teacher Track

On May 20th, the The 6th Global Competition on Design for Future Education held an online case guidance meeting for the elementary and secondary school teacher track. Experts including Shi Jianguo, the Executive Deputy Director of China Education Equipment Industry Association, Zou Xianlian, the principal of Chongqing Liangjiang New Area Xingyuan Primary School, and Mao Chengjie, a senior IT teacher from Beijing Jingshan School, provided targeted guidance through case reviews. This helped participating teachers to further optimize and improve their case works. Contestant teachers from Beijing, Tianjin, Zhejiang, Guangdong, Hubei, and Shanxi introduced educational design cases from their schools.

The content covered various aspects including mental health education, moral education curriculum construction, gamified course design, network security education, and high school English writing instruction, reflecting their exploration and contemplation on the future of education.



## Case Guidance Meeting for College Student Track

From May 23-25, case guidance meeting for The 6th Global Competition on Design for Future Education college student track was successfully held online. The guidance meeting included three different sessions, with advisors including Liu Shiqun, the practice director of the Psychological and Behavioral Big Data direction, MAP, Faculty of Psychology, Beijing Normal University, Saeed Dahdahjani, UNICEF cooperative designer, Peng Junjie, senior industrial design director at NetDragon Websoft Inc., Bai Yuening, Ph.D. in International Communication from Communication University of China, Fei Cheng, postdoc from Faculty of Education, Beijing Normal University, and Michael Adarkwah, offering suggestions for optimizing works and guiding students to focus on educational innovation and project design essentials. This helped to produce more outstanding works for the competition.

Teams from 29 universities around the world discussed existing educational problems from perspectives such as urban-rural educational resource sharing, diversified curriculum construction in rural education, training for children with learning disabilities, interactive spaces in the educational metaverse, visualized reading, personalized educational aid platforms and devices, and youth mental health. They also proposed innovative solutions and product designs based on their team's professional strengths.



### Preliminary Results Released

On June 18, 2023, the preliminary competition results announcement for The 6th Global Competition on Design for Future Education, organized by Beijing Normal University and The UNESCO Institute for Information Technologies in Education, and hosted by the Smart Learning Institute of Beijing Normal University and the National Engineering Laboratory for Cyberlearning and Intelligent Technology, was held online. Since its launch, the competition has attracted more than 1,000 college students and over 2,000 elementary and secondary school teachers from more than 30 countries and regions.



The announcement revealed the preliminary round results for the "Team Educational Project Design" in the college student track and the "Excellent Teaching Case Design" in the elementary and secondary school teacher track. It also announced the winners of the "Future Education in My Heart" poster collection and the "5-Minute educational talk" short video collection, along with the final competition arrangements. Representatives of the judging experts summarized and critiqued the preliminary entries, providing contestants with feedback for improvement.

Chen Guangju, chairman of the competition's steering committee, Deputy Director of the School Affairs Committee of Beijing Normal University, announced the qualifying results. The competition collected over 170 works from college students and over 1500 works from teachers. Ultimately, 46 projects were selected to advance in the college student track "Team Educational Project Design" activity, 12 winners were chosen for the "Future Education in My Heart" poster collection, 78 cases advanced in the elementary and secondary school teacher track "Excellent Teaching Case Design" activity, and 30 winners were selected for the "5-Minute educational talk" short video collection.

### Semi-Finalists of college students track for "Team Educational Project Design":

注：排名不分先后 Note: listed in no particular order

入围项目 (大学生赛道——团队教育项目设计) Semi-finalists (Student—Educational Project Design)				
赛事主题 Competition Themes	序号 No.	项目名称 Project Name	团队名称 Team Name	队员姓名 Member Name
人工智能与教育 AI and Education	1	Visualized map WEBSITE and Learning APP "Our World"	TANTU (谈图)	LE DOAN HAI ANH, TRIEU THU TRANG, TRINH THI THU UYEN, NGUYEN HONG NHUNG, DO NGUYEN THANH THAO
	2	导学者——人工智能支持的自我调节学习管理系统	学习黑箱粉碎机	戴旭升, 樊翊, 潘璋, 杜崇立, 董珍道, 周子欣
	3	"代码脚手架"——基于AIGC的新一代洛基智能编程系统	洛基原住民大队	翁金塔, 樊浩, 谭伟俊, 蓝建炎, 吴晓玲, 张小丽
	4	你好, 我的NPC生涯老师	发光者	贺雨薇, 杨霓裳, 王嫣, 王雅青, 黄松
	5	iNature——融入自然, 动物视角走世界	逃离城市计划	唐嘉敏, 周惠怡, 潘雅菁, 高丽媛, 张怡, 孙小晴
	6	乐康-以人工智能为基础的老年健康管理小程序开发	A&DT	刘忠臣, 李美童, 王榆婧, 卢静懿, 周耀琳, 卢奕杉
	7	"生"临其境——基于虚拟仿真和副本深度融合的沉浸式科学学习平台	科学DM	张安雪, 莫定英, 马晶晶, 刘陈一帆, 张一鸣, 王梦倩
	8	未来教育空间设计——基于GPT的人机协同创造力路径研究	未来空间队	张弛, 刘梦凡, 何楚晴, 林蔚佳, 袁清, 曹雅萍
	9	高校数据库课教学"下沉"方案	UIU×数据库小队	陈悦涛, 黄祥恒, 李婉婉, 黄裕辉, 宁可欣, 邓晓琳
	10	基于美育教学的智慧教室设计研究	来点智慧	杨舒涵, 英若彤, 刘洋, 李金霞, 钟远明, 李子玲
	11	意绘Artisense——国内首创AIGC技术驱动的艺术教育虚拟导师	周家军集结	苗锦林, 周致远, 饶冯桂, 金石徐开, 姚梦迪, 戚渠成
	12	学而时习之——视频学习辅助系统	做的题都队	王帅杰, 张紫芊, 肖均桐, 戴燕珊, 李思璐, 李歆
元宇宙与教育 Metaverse and Education	1	EcoVerse——为气候意识和行动而生	天行者 (Skywalkers)	沈沛青, 秦婧, 李凯杰, 刘禹合, 樊奕廷, 方依宁
	2	万物为师	五剑凤凰山	黄海纳川, 赵德泓, 曹舒雯, 尹平, 彭雨楠
	3	探秘自然——基于AR的小学科学课程辅助应用	奇妙梦想队	姜小丽, 马晓兰, 韦盛标, 后力知草, 马光霞, 柴永欢
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	6	基于AR的学前海洋教育应用	黄河队	鲁仲兰, 马双海, 范朵朵, 买迪娜, 亚库甫, 阿依古丽, 何布力孜
	7	Histopia	河图online	王禹茜, 周志华, 李奕, 李珊, 宋玉文, 邓北
	8	探索元宇宙在公共艺术教育的创新性——以岭南画派纪念馆为例	不考虑成本	吴雨珊, 冯婉华, 陈柳婷, 李馨, 李昕育, 关菁
	9	拥抱自己, 探索未来——基于本土文化的0-18岁儿童青少年认知教育虚拟游戏系统方案设计	元宇宙护卫队	王梦娟, 段春秋, 浦倚帆, 徐焱迪, 赵千凤, 张诗琴
农村教育 Rural Education	1	直播赋能: 新时代民族地区乡村教育振兴的创新路径研究——基于新疆麦盖提县第四中学的案例考察	电气赋能队	魏子淳, 孙秀, 胡晓桐, 章毓轩, 成永祺, 周子言
	2	人人音乐家——基于教育OMO的在线音乐互动课程平台	动视教育科技	赵一蔚, 胡凯, 黄雯婷, 王欣彤, 李文婷, 高梓竣
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	5	基于劳动教育的农村高中科交叉融合课程开发	江天晓	刘梓琛, 黄思琪, 李睿嘉, 陈芊旭, 王洋, 张磊
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	7	有爱无碍——传感技术辅助干预治疗学前特殊儿童, 助推融合教育	曙光	朱雪琪, 喻天舒, 官佳豪, 唐乐平, 朱顺强
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	9	The chosen one——阅读障碍矫正训练APP	猪崽队	林诗婷, 薛梓坤, 邵泽湘, 王婷婷, 蔡欣宇, 姜越
人工智能、大数据与心理学 Artificial Intelligence, Big Data and Psychology	1	Adaptive Student Anxiety Screening	The Psychometrics Centre	Yingyue Luna Luan, Leonie Josephine Andresen
	2	VR情境下学习者情绪诱发与识别	BUAA-BNU-BJUT	李明, 饶思敬, 赵元戎, 黄彭彭, 李宇
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### Winners of the "Future Education in My Heart" poster collection:

Call for Posters "My Vision for the Futures of Education" —Award-winning Posters				
奖项Award	序号No.	作品名称 Poster Name	作者姓名 Author Name	作者学校 University
最佳创意奖 Best Creative Poster	1	未来·多元·教育·自主	孙爱惠	北京师范大学
最佳设计奖 Best Design Poster	2	Future Education	吴欣怡	华东师范大学
最佳人气奖 Best Popular Poster	3	Eduvolutionaries 3	Ksenija Perišić, Marga Pavlović, Milena Radović, Nikoleta Dobrosavićević	University of Belgrade (塞尔维亚) 贝尔格莱德大学
优秀奖 Excellent Awards	4	共学习，共呼吸	张文博	香港科技大学 (广州)
	5	"生"临其境——基于虚拟仿真和剧本杀深度融合的沉浸式科学学习平台	刘陈一帆、马晶晶	华中师范大学
	6	"我心中的未来教育"——周而复始	吴迪	河北师范大学
	7	跨专业，跨领域，多维度融合	吕登辉	Sungkyunkwan University (韩国) 成均馆大学
	8	Imaginative Vision of Futures Education	赵元征	UCSI University (马来西亚) 惠特雅大学
	9	我的未来教育	樊静雯	西北师范大学
	10	科技与教育	寇诗妍	渭南师范学院
	11	FuTeachEDUr	Sandra Nikolić, Novka Nišavić, Milica Miljković, Sara Mitrović	University of Belgrade (塞尔维亚) 贝尔格莱德大学
	12	让教育的未来，更加璀璨	高亮卓	中南民族大学

### Qualified cases of "Excellent Teaching Case Design" in elementary and secondary school teacher track:

入围案例 (中小学教师赛道) Semi-finalists (Primary and Secondary School Teacher)						
案例主题 Case-study Themes	序号 No.	案例名称 (Semi-Finalists)	负责人	省市	学校 (工作单位)	
农村教育 Rural Education	1	本土资源下劳动教育创新教学实践	郑美琦	湖北宜昌	五峰土家族自治县蔡家小学	
	2	代际使命——课程教学辅助教具的设计与制作	梁新	山西晋中	平遥县中部乡温家堡中心小学	
	3	并学格课程在初中物理教学中的应用	曹晓斌	山西晋中	山西省晋中市灵石县同德镇同德镇中心小学	
	4	农村初中数学作业本与课程本同步整合的设计	曹作斌	贵州遵义	贵州省遵义市汇川区汇川小学	
	5	传承家乡非遗——介休花馍在小学美育课程中实施	刘士燕	山西晋中	山西省晋中市介休市实验小学	
	6	产城融合赋能儿童：未来幼儿园在学习资源建设中的探索研究	王艳玲	浙江温州	温州市龙湾区滨海第一幼儿园	
	7	智慧赋能乡村教育可持续发展探索	陈征	湖北孝感	湖北省孝感市教育科学研究所	
	8	以“真”“善”“美”智慧赋能——本土博物馆在美育课程中的探索与实践	姜丹	湖北宜昌	湖北省宜昌市夷陵区夷陵小学	
	9	一场奇妙的汉字之旅	郑秀云	山西晋中	山西省晋中市榆次区康乐小学	
	10	网络环境下的农村小学课程资源建设研究——以1520班课校本课程体系建设为例	孙巧琦	湖北宜昌	湖北省宜昌市枝江市董市镇董镇中心小学	
	11	正念正行，积极心态——农村教育管理与实践	吴金祥	四川凉山彝族自治州	黄宁州泸沽镇巴松小学	
	12	智慧文化进校园，开启智慧教育新模式	董前	湖北宜昌	湖北省宜昌市伍家岗小学	
	13	"少年闰土"——基于农村学校语文教育课程设计与实践	付三毛	江西上饶	江西省上饶市余干县占碑镇中心小学	
	14	《鸡毛信》小学美术实践课案例	任宝珍	山西晋中	山西省晋中市榆次区长安镇中心小学	
	15	城乡小学合作开发乡村小学综合实践活动课程建设的实践案例	胡艳	四川成都	四川省成都市武侯实验小学	
	16	"家乡艺术"驱动"数学图形"课程开发与实践	魏新明	湖北宜昌	五峰土家族自治县实验小学	
	17	基于阿尔山旅游特色的英语课程探索	王坤	北京	北京市广渠门中学教育集团广渠门小学	
全科教育 Inclusive Education	1	走进京剧——以京剧科班为基础的跨学科融合实践	蔡瑞霖	湖北武汉	武汉市七一小学	
	2	基于MIND+创客的农业STEM课程	廖少峰	广东佛山	佛山市顺德区勒流街道季华纪念小学	
	3	高三数学数据分析课例——基于布鲁姆教育理论	黄勇	北京	北京市第五十中学	
	4	魔法空间：学校综合学习空间的构建与实践研究	陈冲	上海	上海市七色花小学	
	5	AI跨学科，赋能精准教学——以北师大《列传》一课为例	王倩	广东深圳	深圳市宝安区铁岗小学	
	6	聚焦"种子" 内力生长的学生综合素养提升实践研究	连亚娟	黑龙江哈尔滨	黑龙江省哈尔滨市花园小学校	
	7	智慧飞行，赋能校园	王华鑫	广东深圳	深圳市龙岗区龙城实验学校	
	8	通过人工智能的"双屏"，领略古诗词之美	张博华	北京	北京市第五十中学附属小学	
	9	城乡教师结对下小学低段的课程资源开发与实践	卢成	湖北宜昌	宜昌实验小学	
	10	基于"两课白版"的初中科学教学设计及有效实施研究	周建刚	浙江宁波	浙江省宁波市鄞州区钟公庙中心小学	
	11	向美而行，以美育人——《我和我的祖国》美术与音乐学科融合课程案例	尚妍	天津	天津市第二南开中学	
	12	基于项目学习的单元整体教学设计	靳文全	山西晋中	山西省中阳县教育局	
	13	基于虚拟实验软件进行建模教学——以"探究杠杆平衡条件"为例	郭前	山西晋中	山西省榆次第一中学校	
	14	geogebra软件在高中数学教学中的单元应用	刘智欣	湖北宜昌	宜昌市夷陵区东溪高级中学	
	15	基于"过程性数据反馈技术"的英语写作精准化教学研究	王磊磊	北京	北京师范大学附属实验中学	
	16	提升课堂，提升科技素养——大型语言模型赋能高中信息技术人工智能单元教学	刘静婷	天津	北京师范大学天津生态城附属学校	
	17	AIGC融合美术创作课程的探索	戚晓静	北京	北京市第一零九小学	
18	AI教学行为分析系统赋能教师专业化发展实践案例	曹刚	浙江湖州	湖州市南山小学教育集团南泉小学		
19	数字化转型背景下小学教师课程教学有效性提升研究	马金兰	天津	北京师范大学天津生态城附属学校		
人工智能 大数据与心理学 Artificial Intelligence, Big Data and Psychology	20	基于STEAM理念的创客课程实践研究	高车车	湖北宜昌	湖北省宜昌市科技馆	
	21	网络课支持下的初中数学创客活动课例设计	任君	四川成都	四川省成都市锦江区五津锦城小学	
	22	"智慧融合，云上书法" 艺术教育课程开发与整合应用的研究	王希	重庆	重庆两江新区云篆小学校	
	23	智慧书法与习字环境设计	胡德慧	北京	北京市东城区新源里小学	
	24	小学科学项目式学习教学——保护环境是美德，实践学子在行动	吕少卿	广东深圳	深圳市福田区凤凰城实验学校	
	25	提高太阳能利用的研究与实践	魏楠	北京	北京市日坛中学实验学校	
	26	探究智能化课堂，赋能学科教学尝试	王磊	北京	北京市东城区地坛小学	
	27	线上线下混合式教学门道与智慧课堂《有趣的平均数》教学案例	刘小会	广东深圳	深圳市福田区外国语实验学校教育集团	
	28	基于知识建构理论的小学科学课例研究——以《地球科学》为例	姜羽	广东深圳	深圳市福田区红岭小学	
	29	应用"智慧树"平台探索校本评价实施策略	叶梓梓	浙江温州	温州市龙湾区滨海第一幼儿园	
	30	AI赋能创客课程——北京师范大学附属实验学校智慧教育实践案例	赵家	安徽宣城	北京师范大学宣城实验学校	
	31	网络+项目+思维培养的小学人工智能教育及教学研究	刘颖	广东深圳	深圳市福田区红岭小学	
	32	教育大数据课堂应用与教师智慧课堂——以《动物全身体》为例	赵文芳	北京	中国人民大学附属中学实验小学	
	33	可学习智慧教育平台赋能的小学英语阅读写作课程	陈颖莉	广东深圳	深圳市福田区外国语学校(龙岗)	
	34	智慧学习环境下的跨学科课程开发与实施	魏霞	四川成都	成都市龙泉驿区第一小学校	
	35	混合式教学：探究人工智能技术赋能——以《探索未来》为例	张朋	湖北宜昌	宜昌市明珠小学	
	36	小学教师在体育教学中的运用与研究——发展商的能力	姜洁	北京	北京市东直门中学附属红莲小学	
37	三次课智慧教学模式在初中历史学科中的应用——以《鸦片战争》为例	黄博扬	广东深圳	深圳市福田区凤凰城实验学校		
38	人工智能赋能智慧课堂下的课程教学——以《昆虫记》为例	崔超航	北京	北京市第二中学分校		
39	混合式小学语文写作教学	李琳	广东深圳	深圳市福田区外国语学校(集团)科园小学		
40	基于项目式学习驱动下的综合实践课程	唐伟书	山东烟台	烟台经济技术开发区第七小学		
元宇宙与教育 Metaverse and Education	1	沉浸教学，主题融合，素养提升——小学PEP英语课程思政实践案例	田莎	浙江宁波	慈溪市实验小学	
	2	智慧之旅——基于全纳教育的教学设计与实践	曹晨	江苏苏州	苏州市枫桥中心小学	
	3	金纳智慧教育背景下低地城儿童编程课程实践研究——以融合教育课程为例	刘斌	广东深圳	深圳市福田区红岭小学	
	4	共生共荣：融合教育背景下生命教育课程实践探索	张春	广东深圳	深圳市福田区红岭小学	
	5	基于"智慧树"平台的幼儿编程启蒙课程实践探索	王倩秋	浙江温州	温州市龙湾区滨海第一幼儿园	
	6	游戏化编程真人模式探索——科技赋能人才的综合能力培养	张亚坤 张兴利	北京	中国科学院心理研究所附属心理研究中心	
	7	协同编程，超越自我——课程视角下以社交故事为载体提升自闭症儿童问题解决能力的实证研究	李彬彤	广东广州	广州市番禺区实验小学	
	8	融合教育背景下ADHD学生运动干预的课程设计与实施	侯瑞娟 侯廷杰	广东深圳	深圳市福田区红岭小学	
	人工智能 大数据与心理学 Artificial Intelligence, Big Data and Psychology	1	元宇宙教育在地理学科教学的应用——数字AI知识教育	林佩娟	江苏无锡	无锡锡东实验学校
		2	元宇宙AR技术赋能小学科学教育	倪琛	广东深圳	深圳市福田区红岭小学
		3	元宇宙+AI技术赋能小学科学教育	倪琛	广东深圳	深圳市福田区红岭小学
		4	小学三维动画编程 开启元宇宙之门	王清	四川成都	成都市实验小学
		1	杭州第二中学"互联网+"学生心理健康管理平台的构建与实践	孙玉森	浙江杭州	浙江杭州第二中学
		2	中学服务学习的本土化实践——以深圳少年宫为例	肖群群	广东深圳	深圳罗湖教育科学研究院
		3	"智慧课堂"提高教学质量——AI赋能智慧"课后服务"实践	陈静	广东深圳	广东省深圳市宝安区实验学校
		4	"线上+线下" 教师科技素养提升对心理健康教育的促进	曹晓霞 曹晓军	湖北宜昌	湖北省宜昌市夷陵区东溪高级中学
		5	创新"创客"课程——拓展生命安全教育	赵晓曼	北京	北京市人大附中天福学校
6	AI与大数据驱动下的心理空间学校心理健康教育工作——以全国中小学心理健康工作为例	尹德玉	广东深圳	深圳市福田区中国科学院深圳先进技术研究院附属实验学校		
7	基于跨学科理念的美术教学实践	张艺琳	山西晋中	山西省晋中市介休市金翰林小学		
8	智慧平台赋能课下的科学教学课例	甄彩虹	广东深圳	深圳市福田区外国语学校(龙岗)		
9	探索基于教学改革和科技融合的新课程教学	丁文龙	重庆	重庆两江新区星湖学校		

### Winners of "5-Minute educational talk" short video collection in elementary and secondary school teacher track:

注：排名不分先后 Note: listed in no particular order

获奖视频 (中小学教师赛道) Award-winning Videos (Primary and Secondary School Teacher)					
奖项 Award	序号 No.	视频名称 (Award-winning Videos)	姓名	省市	学校 (工作单位)
最佳内容奖 Award for Best Video Content	1	种子的传播	汪艳华	新疆昌吉回族自治州	昌吉市第十小学
	2	我们为什么需要科学 (Why we need science ?)	Bouslimi Chokri	Jendouba, Tunisia (突尼斯斯捷拜)	Lycée Jendouba
	3	晶体的“自律”生长	贾晓帆	河北保定	河北定州中学
最佳方法奖 Award for Best Video Designs	1	基于“四个理解”的高中概念教学探究——以“正切函数的性质与图象”的教学为例	包伟	广东深圳	深圳理工大学附属实验高级中学
	2	冲向蓝天的小火箭	周寿晨、张宇星、杨媛媛、商敏等	江苏苏州	江苏省苏州市工业园区金鸡湖学校
	3	探索计算机的奥秘	肖玉洁、潘秋彦、孔维茹	甘肃兰州	西北师范大学
最佳创意奖 Award for Best Video Innovation	1	超重与失重	高天驰	广东深圳	深圳市龙华区华南实验学校
	2	数字黑洞	骆融	广东深圳	深圳市龙华区创新实验学校
	3	二维码的奥秘	雒锦洋	广东佛山	佛山市禅城区佛科实验小学
最佳剪辑奖 Award for Best Video Editing	1	枚举算法	蔡荣啸	山东青岛	山东省青岛第九中学
	2	圆的面积计算公式	容杰文	湖南长沙	长沙市岳麓区樟树门小学
	3	食物在身体里的旅行	何红	广东深圳	深圳市宝安区宝民小学
最佳人气奖 Award for Most Popular Video	1	长方体的表面积	鲍越	辽宁大连	北京师范大学大连普兰店区附属学校
	2	频率与概率	苏利	山西晋中	山西省榆次第一中学校
	3	智能陪伴机器人模块知多少	陈金梅	广东佛山	佛山市禅城区佛科实验小学
优秀奖 Award for Excellent Video	1	比赛场次	罗怡	湖北宜昌	湖北省宜昌市实验小学
	2	圆的面积计算公式	王媛	湖北宜昌	湖北省宜昌市西陵区外国语小学
	3	巧用功能关系和能量守恒定律解题	张丽	山西晋中	山西省左权中学校
	4	乙醇的溶解性	唐紫薇	广东深圳	中国科学院深圳理工大学附属实验高级中学
	5	网络基础知识——子网掩码和网关	任婕	山西晋中	晋中师范高等专科学校附属学校
	6	月地检验	李雅尚	北京	北京市第一六六中学
	7	巧用对比学分类	黄焯	广东深圳	广东省深圳市福田区百花小学
	8	转换法的应用——圆柱的体积	刘畅	湖北宜昌	湖北省宜昌市西陵区外国语小学
	9	北师大版数学一年级下册《填数游戏》	徐莹莹	广东深圳	广东省深圳市南方科技大学教育集团(南山)第二实验学校
	10	多边形的外角和	刘强	山西晋中	山西省晋中市榆次五中
	11	探寻水足迹	赵茜	北京	北京市少年宫
	12	黑体辐射定律与温度测量	刘照民	贵州贵阳	贵阳市新世界学校
	13	比较不同物质的吸热能力	孟鸢	广东深圳	深圳市龙华区第二外国语学校
	14	充分条件和必要条件	李艳	四川成都	圣亚技工学校
	15	观察土壤	沈佳丽	浙江湖州	浙江省湖州市爱山小学教育集团常溪小学

## Important Events

### Notice on Holding Global Smart Education Conference 2023

To deeply promote the strategic action of education digitalization, innovate the development of smart education, and strengthen international communication, with the approval of the Ministry of Education, the "Global Smart Education Conference 2023" co-hosted by Beijing Normal University and the UNESCO Institute for Information Technologies in Education will be held in Beijing from August 18th to 20th.



As the annual conference of Global Smart Education Network (GSENet), this year's event will focus on "Educational Transformation and Data Governance". It will share new trends, theories, and technologies in the field of smart education, as well as disseminate smart education solutions and outstanding cases, through various formats such as theme forums, high-level dialogues, exhibitions, workshops, and webinars.

#### Themes of the Conference

With the deep development of a new round of scientific and technological revolution and industrial transformation, digital technology has increasingly become the driving force leading fundamental changes in human society's ways of thinking, organizational structures, and operating models. It has provided significant opportunities for innovation, reshaping forms, and promoting development, but also brought new challenges. The question of "what is education and where should it head" has become a common subject of contemplation for all countries. The United Nations Summit on Educational Transformation has highlighted that global education is facing severe challenges and a learning crisis, necessitating urgent educational reform. We must fully leverage the power of the digital revolution to ensure that high-quality education and lifelong learning are provided as a common good and human right for everyone, paying special attention to the most marginalized groups. China has proposed to advance education digitalization to build a society and a nation that embraces learning for all its citizens. Smart education is the target form of education's digital transformation, with the cultivation of top innovative talents at its core. Technology empowerment is the driving force behind the innovative development of smart education, and data governance is the mindset for the orderly progression of educational system reform.

This year's conference will include an opening ceremony, 14 thematic forums, and a closing session. It plans to invite speakers such as academicians, expert scholars, representatives from international organizations, government officials, teachers and students, and industry enterprise representatives from the global education and technology fields. A Smart Education Exhibition will also be held concurrently (the specific schedule is subject to the actual event).

## Yuanzhuo Program | Launch of the Social Survey Project on Educational Applications of ChatGPT

### A social survey on educational applications of ChatGPT

Zhang Jinbao, Director of the Computational Thinking Research Center at Beijing Normal University, elaborated on the research background and experimental plan for the social survey of ChatGPT educational applications. The release of ChatGPT has sparked significant attention in the field of artificial intelligence. This project aims to study the behaviors of teachers and students during the use of ChatGPT, understand their perspectives, scenarios, expectations, and demands for generative artificial intelligence in the realm of education, and provide insights and grounds for formulating scientific and reasonable countermeasures in the future.



Themed activity in April: Implementation of Student Competency-Oriented Interdisciplinary Integrated Curriculum Design

期数	时间	主题	嘉宾
第一期	4月8日	未来数字化胜任力与 计算思维课程设计	张冬雷, 中国科学院力学研究所博士后
第二期	4月15日	素养导向的跨学科项目式 课程设计探讨	张媛媛, 北京师范大学教育技术学硕士
第三期	4月22日	学生素养导向的跨学科 课程的设计与实施	唐胜兰, 无锡市新吴区幸福外国语小学副校长

# Yuanzhao School | A Themed Seminar on Educational Application Experiment of Generative AI

## A themed seminar on educational application experiment of generative AI



Smart Learning Institute (SLI) welcomed high school students from Beijing Yucai School

On the morning of May 13th, Yuanzhao School held a themed seminar titled "Educational Application Experiment of Generative AI" at the Smart Learning Institute of Beijing Normal University. The seminar was conducted in a combined online and offline format and was livestreamed through WeChat Video. The event consisted of two parts: (1) the project team introduced the experimental process and stage achievements, and (2) three representatives of the experimenters (Li Junyi, Jin Xin, and Wang Shijie) shared their experiences and personal insights in the experiment.

To promote effective collaboration between universities, research institutes, and basic education and to provide a diverse learning platform for high school students, from June 7th to June 9th, under the organization of the Yuanzhao Program at Beijing Normal University ("Youth Artificial Intelligence Innovation Program"), five first-year high school students from Beijing Yucai School visited the Smart Learning Institute at Beijing Normal University for a three-day career experience activity. Smart Learning Institute, Beijing Normal University will continue its commitment to technological innovation and talent development. It will establish partnerships with more schools and conduct a wide range of online and offline activities, providing secondary school students with more practical opportunities and resource support, and promoting the advancement of the education sector.



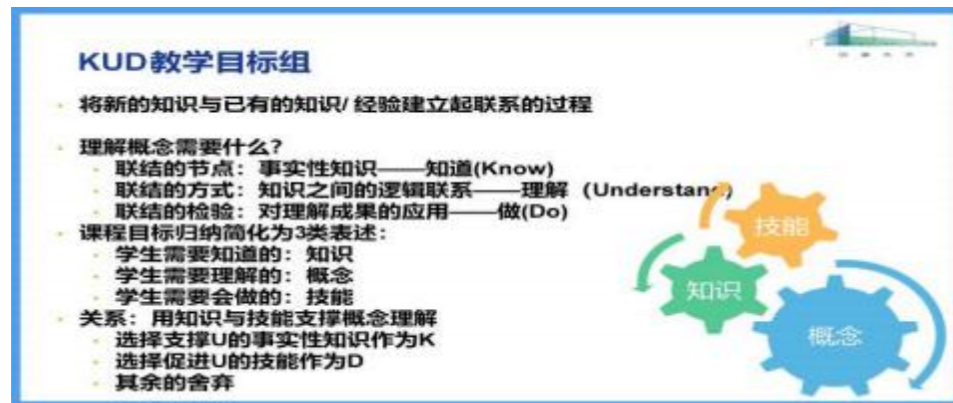
A roundtable discussion, an overseas postdoc at SLI, and high school students from BYS

The purpose of this career experience activity was to assist high school students in understanding and experiencing various professional roles, gaining a genuine understanding of professional life, discovering their own strengths, nurturing vocational interests, forming the right career concepts and life aspirations, and enhancing their career planning abilities.



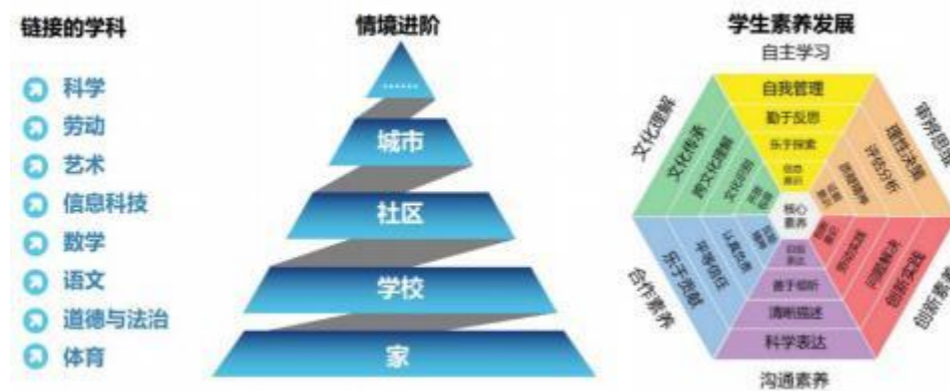
During the activity, the five students from Beijing Yucai School visited the Smart Learning Institute at Beijing Normal University, where they learned about different research directions and projects in various fields and engaged in face-to-face discussions with researchers. This activity helped expand their horizons and develop their scientific thinking and problem-solving abilities.

### Session 1



Teacher Zhang Dongshuang is sharing on how to organize big idea teaching with the KUD approach

### Session 2



Teacher Zhang Yuanyuan is sharing on Methodology for the Top-Level Design of Project Courses

### Session 3

#### SK hynix WFLS图书馆课程

年级	目标	学习方式
一年级	让感受到图书馆的友好环境与氛围；拥有舒适的图书馆使用体验感；享受阅读的乐趣。	学习多以听故事、游戏等参与式的方式进行。从老师读故事的引导以及阅读示范中，学习阅读的方法。
二年级	知识层面：学习图书馆、阅读和探究的基本工具（分类检索、故事山、思维导图、六何法等）；思维方面：重在学生逻辑思维（流程、顺序、对应关系、相关性、因果关系等）和探究意识的培养。	为学生创造更多机会，让学生自主学习，自己探索和发现；在老师提供的基本信息的基础上，自己得出结论；实际操作中遇到困难，分析原因，在合作学习中找到正确的方法。
三年级	思考的自主性与多维度，学习通过提出问题主动思考，对多样信息进行辨析，整合信息建立自己的观点，并且能表达与交流。	课堂上，学生自主学习的时间大大增加，多以任务的形式，开展小组合作学习。老师主要职责是设置任务、引导讨论、总结提炼。

Teacher Tang Shenglan is explaining the case of inquiry-based courses

## BNU Research Team Presents Achievements at the 6th Digital China Summit

On the morning of April 27th, the 6th Digital China Summit opened in Fuzhou, Fujian Province. Li Shulei, a member of the Political Bureau of the CPC Central Committee and Minister of the Publicity Department of the Central Committee of the CPC, attended the opening ceremony and delivered the keynote speech. Zhuang Rongwen, Vice Minister of the Publicity Department of the Central Committee of the CPC, Director of Office of the Central Cyberspace Affairs Commission, and Director of Cyberspace Administration of China, presided over the first phase of the opening ceremony and delivered a speech.



On the afternoon of April 27th, the "Forum on Development and Governance of Digital Education" made its first appearance at the 6th Digital China Summit. The theme of this forum was "Digital Education: Collaborative Development and Multi-Governance," and it was hosted by the Ministry of Education, Cyberspace Administration of China, and Ministry of Industry and Information Technology and co-organized by the China National Academy of Educational Sciences, the Education Department of Fujian Province, Educational Informatization Strategy Research Base, and China United Network Communication Group Co.,Ltd.



Among the four major research achievements presented at the forum, Achievement One, titled "Test of Education Application in China: Method, Practice and Envision," is the result of the 2022 National Key R&D Program project, "Research on Key Technology of Behavior Sensing and Risk Monitoring for Internet Education Applications"(2022YFC3303500), conducted by the National Engineering Laboratory for Cyber

learning and Intelligent Technology at Beijing Normal University. Achievement Two, titled "Artificial Intelligence Education Experiments: Scenarios and Policies," comes from the 2020-2022 Ministry of Education-China Mobile Research Fund project, "Educational Experiment Research under Artificial Intelligence Conditions" (MCM2020-4-4), co-undertaken by the Beijing Normal University and Educational Informatization Strategy Research Base, Ministry of Education.



Professor Chen Guangju, Beijing Normal University hosted the session of achievement presentation and participated in an interview with People's Daily Online during the conference



Before the forum commenced, Associate Professor Tong Lili, Associate Professor of the Faculty of Education, Beijing Normal University, and Deputy Director of Educational Informatization Strategy Research Base (Beijing), Ministry of Education, represented the organizers at the press conference. She answered questions from journalists about China's recent achievements in digital education development and the distinctive highlights of the Digital Education Development and Governance Forum held this time. More than 300 attendees, including representatives from relevant national departments, municipal education authorities, universities directly under the Ministry of Education, universities jointly built by ministry of education and provincial governments, as well as research institutes and representatives from related companies, were present at the event.

## The Launching Ceremony and Implementation Plan Demonstration Meeting of the “Key Technological Research and Application Demonstration of Intelligent Computing in Learning Environments” Project

On May 30th, Science and Technology Innovation 2030 - "Next-Generation Artificial Intelligence" major project "Key Technological Research and Application Demonstration on Learning Environment Intelligent Interconnecting Computing" launch and demonstration meeting for implementation plan, presided by Prof. Li Yanyan from Faculty of Education and National Engineering Laboratory for Cyberlearning and Intelligent Technology at Beijing Normal University, was held at Beijing Normal University.



This project is led by Beijing Normal University and collaborated by nine institutions, including Beihang University, Tsinghua University, Zhejiang University, Beijing Institute of Technology, Nanjing Normal University, National Center for Schooling Development Programme, Beijing Edx Network Technology Co., Ltd., Beijing Dajia Internet Information Technology Co., Ltd., and Hangzhou Hikvision DIGITAL Technology Co., Ltd.

The project aims to address the urgent need for intelligent upgrades in the learning environment as part of the construction of a high-quality education system. It will conduct research on theories and technologies, develop a smart learning environment computing engine, and create a large-scale smart classroom monitoring platform. This will lead to the establishment of a comprehensive teaching environment, resulting in a self-controllable, safe, and trustworthy intelligent learning environment computing solution. The project's implementation will deepen innovation in intelligent education applications under the guidance of China's new generation artificial intelligence development plan, supporting the "Digital China" strategy and the strategy for building a strong education nation.



Prof. Li Yanyan, Beijing Normal University, leader of the project “Key Technological Research and Application Demonstration on Learning Environment Intelligent Interconnecting Computing”

Professor Li Yanyan, leader of the project, provided an introduction to the project's implementation plan, covering the project overview, task breakdown, technical road map, timeframes, organizational management, results, and assessment methods. The five subject facilitator, namely Professor Bie Rongfang from Beijing Normal University, Professor Pan Junjun from Beihang University, Professor Sun Lifeng from Tsinghua University, Professor Zhu Qiang from Zhejiang University, and Professor Liu Dejian from Beijing Normal University, elaborated on the specific implementation plans for their respective subjects.

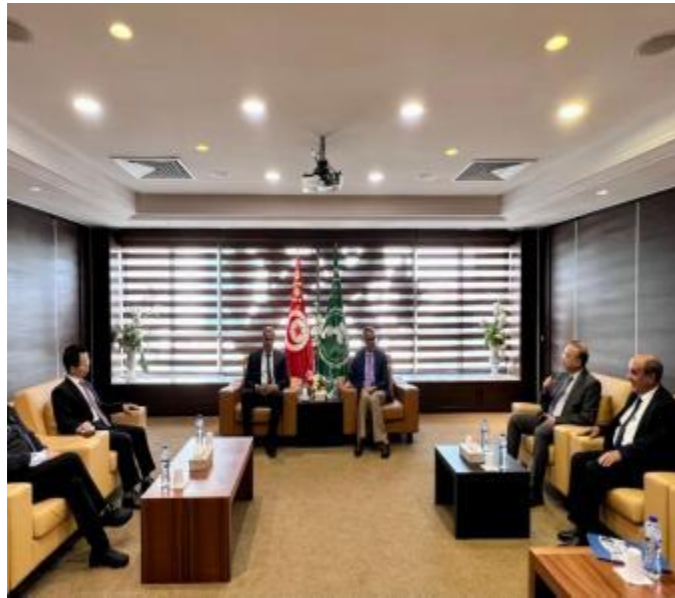
## Seminar on Computational Thinking and STEM, along with the Annual Work Meeting of the Bebras China Community, Was Held at Beijing Normal University.



From June 12 to 16, 2023, the "The 2023 Seminar on Computational Thinking and STEM, along with the Annual Work Meeting of the Bebras China Community," hosted by the School of Educational Technology at Beijing Normal University and organized by Smart Learning Institute and the Center for Computational Thinking Education Research, was held at Beijing Normal University. The theme of this conference was "Exploring Computational Thinking, Opening the Future of Intelligence." The conference featured invited guest lectures, an academic research forum on computational thinking, a forum on computational thinking teaching practices, an artificial intelligence education workshop, a STEM education workshop, a workshop on K-12 information technology (science) test question development, and interdisciplinary discussions and collaborative creation activities. Over 40 experts and guests shared insights on relevant topics.

## Cooperation and Communication

### Professor Huang Invited to the First International Arab Conference on Artificial Intelligence in Education



On May 23 and 24, 2023, the UNESCO Chair on AI in Education, Director of UNESCO INRULED, Professor in Beijing Normal University, HUANG Rong huai, 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. The conference aims to address the different aspects of AI use in education and initiate a constructive dialogue between experts, policymakers, education professionals and industry players.

During the conference, Prof. Huang engaged in discussions with Prof. Mohamed Ould Amar, the Director-General of ALECSO, Dr. Mohamed Ali Boughdiri, the Minister of Education and Chairman of the National Commission of Tunisia for UNESCO, and Prof. Mohamed Jemni, the Director of the ALECSO Department of Information Technology, to explore future collaborations in the field of AI in education.



Prof. Huang delivered a keynote speech.

Prof. Huang delivered a keynote speech titled "How We Learn and Teach with AI: The Mechanisms of Human-machine Collaboration in Future Education" during the sub-forum on human-machine collaboration in education.

### Meeting with the Secretary General of the Ministry of Higher Education and Scientific Research of Tunisia and Visiting Some Institutes



Prof. HUANG Ronghuai and his delegation visited the National Institute of Applied Science and Technology (INSAT) and discussed future collaboration with the management team on May 22, 2023. Prof. Huang introduced the work carried out by the UNESCO Chair on AI in Education and its international partnerships. Prof. Samir HAMZA, Director of INSAT, presented INSAT's progress in education digitalization, curriculum development in artificial intelligence, and research on educational robotics. The two parties will explore potential opportunities for future cooperation in educational robotics and AI education.

Related news released by the Ministry of Higher Education and Scientific Research of Tunisia

## Prof. HUANG Ronghuai Invited to International Scientific Conference in Serbia

Prof. HUANG Ronghuai, the UNESCO Chair on AI in Education and Director of UNESCO INRULED, participated in the International Scientific Conference titled "Education During Covid-19 Pandemic: Experience and Lessons Learned," held in Serbia on June 1, 2023.

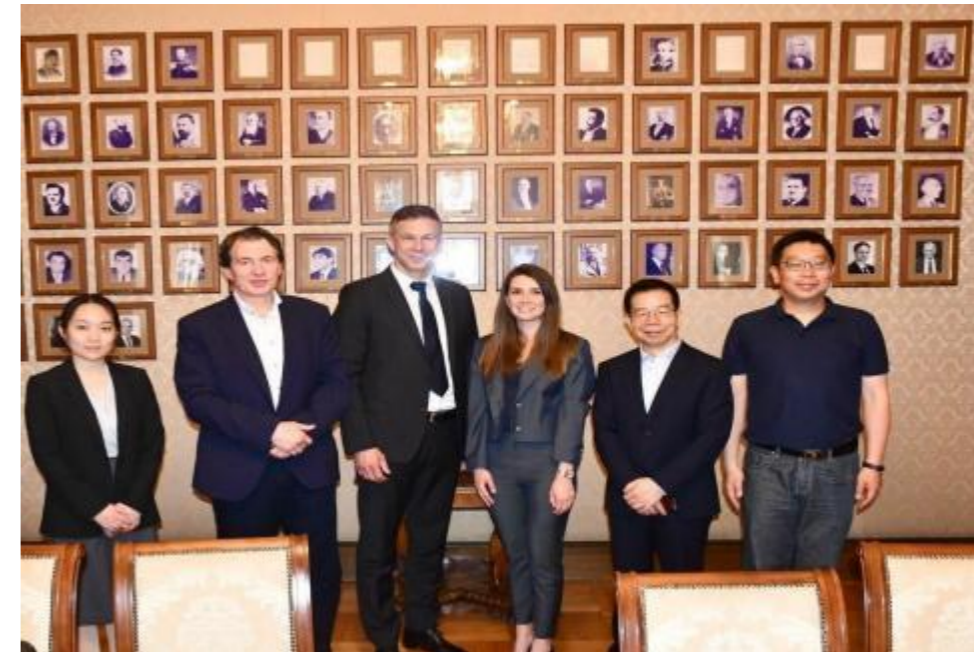
Delivering a keynote speech titled "From Online Learning to Digital Transformation: Going far beyond the Platforms and Sharing of Resources," Prof. Huang shared the research outcomes of the team, focusing on global digital transformation of education powered by AI. He emphasized the need for sustainable digital transformation and proposed dialogue and collaboration between China and Europe in AI and education, including developing standards for AI education applications.

Chen Hong, Chief Engineer of Smart Learning Institute and CTO of NetDragon Websoft Inc., and Hatem Radwan, an educational expert from NetDragon Websoft Inc., delivered speeches via video.



Professor HUANG Ronghuai, UNESCO Chair on AI in Education, Dean of Smart Learning Institute

During the conference, Professor HUANG Ronghuai was interviewed by Serbian television and answered questions regarding the use of robots and AI in education. Professor HUANG Ronghuai emphasized the positive impact of applying new-generation artificial intelligence technologies in education, advocating for an open-minded approach rather than a simple ban on new technologies. More importantly, schools and teachers should actively update their educational and teaching philosophies and continually improve their digital literacy and information technology skills. Professor HUANG Ronghuai pointed out the need for a high level of attention to potential risks and ethical issues associated with AI in education, and called for relevant research efforts to accelerate the establishment of usage standards.



Prof. HUANG Ronghuai (2nd right) met Ms. Vesna Vidović (3rd right), Deputy Mayor of Belgrade



Prof. HUANG Ronghuai visited the Chinese Embassy in Serbia

## Prof. HUANG Ronghuai Invited to Thailand



Prof. HUANG Ronghuai presented at Nation-Building 2023 International Conference.



Prof. HUANG Ronghuai and his delegation together with officials of relevant departments in AIT.

From June 20th to 23rd, Professor HUANG Ronghuai, the UNESCO Chair on AI in Education, and Dean of Smart Learning Institute of Beijing Normal University, was invited to attend the Nation-Building 2023 International Conference held in Thailand. He delivered a speech on the topic 'The key concerns to enable full human potential during the digital transformation of education.' Professor HUANG Ronghuai and his delegation also visited the Asian Institute of Technology (AIT), UNESCO Asia-Pacific Regional Bureau for Education, and Southeast Asian Ministers of Education Organization (SEAMEO) Secretariat.



Prof. HUANG Ronghuai visited the Secretariat of SEAMEO.



Prof. Huang visited Chinese Embassy in Thailand.

## Books & Articles

### Test of Education Application in China: Method, Practice and Envision



#### Authors:

##### Tong Lili

Director of the Digital Governance Lab in Education, National Engineering Laboratory for Cyberlearning and Intelligent Technology, Deputy Director of Educational Informatization Strategy Research Base, Ministry of Education, P.R.C.

##### Liu Dejian

Dean of Smart Learning Institute of Beijing Normal University, Chairman and Executive Director of NetDragon Websoft Inc.

##### Chen Guangju

Professor at Beijing Normal University, former Vice President of Beijing Normal University, Executive Vice President of Teacher education branch of China Association of Higher Education, Chairman of the Education Standards Professional Committee of Chinese Society of Educational Development Strategy.

### Message from the Editor

Amidst the comprehensive development of online education, the book 'Test of Education Application in China: Method, Practice and Envision' is based on accumulated research and guided by goals and issues. It emphasizes both theoretical advancement and technological feasibility. The book elaborates on the evolution and innovation of Internet education applications from a historical and developmental perspective, evaluation methods and practices in different countries and regions, and the future prospects of Internet education applications.

As a research work in the field of digital education, this book closely follows industry trends and comprehensively presents the evaluation results of Internet education applications. It responds to the policy requirements of the Party and the government for implementing digital education strategic actions. It will enable readers to gain a comprehensive understanding of existing Internet education applications, providing support for schools in selecting high-quality educational resources and helping create a healthy, orderly, and safe online space and learning environment for teachers and students. Additionally, it provides data and theoretical support for companies looking to optimize educational apps.

## HUANG Ronghuai: Thoughts and Recommendations on Using ChatGPT in Education

In a recent China Higher Education Expo, Professor Huang Ronghuai shared his thoughts and recommendations on using ChatGPT in education:

1. Embrace, Don't Prohibit: Foster interdisciplinary research to enhance understanding of chatbots like ChatGPT and establish relevant policies and guidelines to regulate and promote their use in education.
2. Update Teaching Philosophy: Cultivate teachers' digital thinking and AI literacy, enhancing their ability to use new tools like ChatGPT for teaching. Teachers should rethink the design of instructional content, teaching methods, and assessment, aligning them with new technologies. Research on human-machine collaborative teaching mechanisms can facilitate effective cooperation between teachers and AI like ChatGPT.
3. Avoid Blind Trust: Prevent overreliance on chatbots like ChatGPT. Elevate the skills of both teachers and students in using these tools. Conduct research to improve the accuracy and transparency of ChatGPT responses. Focus on meeting the diverse needs of students from various backgrounds, particularly disadvantaged groups like students with disabilities, to promote inclusive education.
4. Enhance Application Skills: Teachers and students should improve their critical thinking skills and question-asking techniques when interacting with chatbots like ChatGPT. Research on effective usage and management frameworks for chatbots and pathways for skill development.
5. Humanized Chatbots: Emphasize the importance of virtual relationships. Develop more humanized chatbots based on social exchange theory, SPT, ABCDE, and other models to enhance interactions between students or teachers and chatbots, improving teaching effectiveness.
6. Ethical Considerations: Design inclusive, usable, ethical, and responsible chatbots with a human-centered approach. Conduct ethical research on the use of chatbots in education, focusing on data security, inclusivity, fairness, and the social relationships between humans and chatbots.

## Intelligent Technology Enabling On-demand Learning: Theoretical Progressions and Elemental Representations

e-Education Research 2023,44(04),17-25

**Authors:** Liu Jiancheng, Fei Cheng, Liu Jiahao, Jiang Yanshuang

**Abstract:** The integration of smart technology and education has been deepening, and the complexity of education has gradually become a reality. The contradiction between the supply of educational resources and services and the diversified learning needs of learners is prominent, and a profound conceptual change is urgently needed. Based on the general trend of digital transformation of education brought about by intelligent technologies, and in accordance with the demand-driven, application-based, service-oriented, and technology-enabled principles, this paper puts forward an on-demand learning paradigm, which refers to a learning paradigm in which learners meet the progressive requirements of multi-level learning objectives according to diversified learning needs in a natural context and promote the effective connection of learning resources, environments and services with intelligent technologies. This paper focuses on the relevance of the on-demand learning paradigm and the elemental representations: the dynamic generation of learners' learning needs, the progression of matching learners' on-demand learning paths, the evolution of teacher-learner interactions, and the adaptability of teachers to provide instructional services. At the same time, the on-demand learning scenarios enabled by intelligent technologies are described from the perspectives of digital resources, stakeholders, and intelligent technologies.

**Keywords:** Intelligent Technology; On-demand Learning; Learning Paradigm; Theoretical Progression; Elemental Representation;

## AI: UNESCO Mobilizes Education Ministers from Around the World for a Coordinated Response to ChatGPT

In response to the rapid emergence of new and powerful generative AI tools, on Thursday, UNESCO held the first global meeting of Ministers of Education to explore the immediate as well as far-reaching opportunities, challenges and risks that AI applications pose to education systems. Over 40 Ministers came together to share policy approaches and plans on how best to integrate these tools into education. During the online discussion on 25 May 2023, UNESCO presented a roadmap on generative AI and education, including open multistakeholder dialogue.

Stefania Giannini, UNESCO Assistant Director-General for Education, points out that "Generative AI opens new horizons and challenges for education. But we urgently need to take action to ensure that new AI technologies are integrated into education on our terms. It is our duty to prioritize safety, inclusion, diversity, transparency and quality — as stated in the UNESCO Recommendation on the Ethics of Artificial Intelligence adopted unanimously by our Member States".

To read the article Recommendation on the Ethics of Artificial Intelligence, please refer to:

<https://unesdoc.unesco.org/ark:/48223/pf0000380455>

## Project News

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In Collaboration with GSENet International Partners: co-published 6 issues of the Global Smart Education Newsletter; organized 4 online communication sessions; finalized the concept document for the Global Smart Education Report and conducted 8 internal planning meetings.

— Contributed by Zhang Dingwen



*Research Report on Smart Learning in China (2022-2023)* has completed quality inspection and is ready for printing. *Internet Education Application Evaluation: Methods, Practices, and Prospects* has been published and will be launched at the Education Forum of the Digital China Summit. A collaboration agreement was signed with the Educational Informatization Equipment Branch for the 2024 Smart Learning Blue Book – Smart Learning Product Research Report. The kick-off meeting was held, and manuscript submissions are now open.

— Contributed by Jiao Yanli



*The "Fujian Province Primary Education Digital Transformation and Principals' Leadership Enhancement Seminar" (Fuzhou Changle Campus) concluded successfully from April 17-21. The training program at Kunming No. 1 High School, Yunnan Province, was conducted and concluded successfully from June 10-14. Regional principal/teacher training collaborations have been established with Dazu District, Chongqing, and Jian'an District, Xuchang City, Henan Province. Training content is currently under design. A training project in collaboration with the Teacher Development Professional Committee of the China Education Development Strategy Society, focusing on "Specialized Capacity Enhancement for Primary and Secondary School IT Subject Teachers", is in the planning and design phase, with a tentative launch scheduled for the summer.*

— Contributed by Wang Yongzhong



Provided assistance to Thai universities and educational institutions in preparing for the 7th International Conference on Smart Learning Environments (ICSLE 2023). Engaged with the Southeast Asian Ministers of Education Organization Regional Centre for Technical Education Development (SEAMEO TED) to discuss collaboration on teacher vocational skills and development. Jointly planning a training program for principals of vocational technical schools in Southeast Asian countries.

— Contributed by Yao Youjie, Qi Xinjian

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