

CONFERENCE PROGRAM



2024 the 4th International Conference on
Educational Technology

2024年第四届教育技术国际会议

September 13-15 / 2024 / 9月13日-15日

中国武汉
Wuhan



2024 the 4th International Conference on Educational Technology



2024 年第四届教育技术国际会议

“数智增强的教育技术”

"Data-Intelligence Augmented Educational Technologies"

Wuhan, China



中国 武汉

September 13-15, 2024 | 9月13-15日, 2024



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WELCOME ADDRESS

On behalf of the organizing committee of the 4th International Conference on Educational Technology (ICET 2024), I extend our warmest welcome and heartfelt gratitude to each one of you who have traveled far and wide to converge in the enchanting city of Wuhan. In this golden autumn season, we gather here to witness and participate in this significant event in the realm of educational technology.

With the theme of "Data-Intelligence Augmented Educational Technologies", ICET 2024 aims to delve into and propel the profound integration of data intelligence and educational technology, ultimately enhancing learning efficiency and educational quality. Since the inaugural conference in 2021, ICET has emerged as a vital platform for scholars and experts in educational technology to exchange ideas, share achievements, and foster collaboration. This year, we have overcome numerous challenges to return to an in-person format, eager to present an even more enriching and insightful academic gathering.

The conference is proudly co-hosted by the National Engineering Research Center for Education Big Data, the National Engineering Research Center for E-Learning, and Wuhan Intelligent Education Industry Technology Research Institute, with the generous support of Central China Normal University and the Faculty of Artificial Intelligence in Education. Furthermore, we are honored to have Journal of Distance Education as our technical sponsor, and Huazhong University of Science and Technology Press, Modern Distance Education Research, Frontiers of Digital Education, and Bon View Publishing as our media partners. Additionally, Beijing Psychtech Technology Co., Ltd, China serves as our bronze sponsor. This collaboration and support have laid a solid foundation for the success of the conference.

During the conference, we will delve into topics such as learning analytics and educational data mining, the application and innovation of artificial intelligence in education, technology-enhanced learning and teaching, technology-empowered learning sciences and mechanisms, data-driven empirical research and so on. Leading scholars from around the globe will present cutting-edge research findings and practical experiences, offering a vibrant academic feast. Moreover, the conference boasts a diverse array of activities, including keynote speeches, invited speeches, Chinese forum, paper presentations, Campus tour, and city tours. We cordially invite you to actively participate in these events, engage in profound discussions with your peers, and jointly explore the future directions of educational technology.

Once again, thank you all for your presence and support! I look forward to the next few days where we can work together to write a new chapter in the development of educational technology.

Wishing you all good health and a fruitful experience at ICET 2024!

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Wuhan, September 2024

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INTRODUCTION

Central China Normal University, China



Central China Normal University (CCNU), located in Wuhan, Hubei Province, China, is a prestigious national comprehensive normal university with a long history and profound cultural heritage. It is directly under the administration of the Ministry of Education of the People's Republic of China and co-constructed with the Hubei Provincial People's Government, boasting an outstanding academic reputation. CCNU offers a comprehensive range of academic programs spanning various disciplines including philosophy, economics, law, education, literature, history, science, engineering, agriculture, and art. The university is committed to nurturing talents with an international perspective, and its curriculum is designed to align with international standards. The university boasts a highly qualified and internationalized faculty team, comprising renowned experts and scholars from both China and abroad. They have achieved remarkable accomplishments in their respective fields and actively engage in international academic collaborations, fostering an international academic exchange platform for students and teachers alike.



CCNU possesses robust research capabilities, supported by numerous national and provincial research platforms. The university actively promotes international research collaborations, forging partnerships with prestigious universities and research institutions worldwide to jointly embark on cutting-edge scientific research and technological innovations. CCNU's campus culture is vibrant and diverse, emphasizing holistic student development. Regular cultural festivals, art exhibitions, academic lectures, and social practices are organized to encourage student participation and foster social responsibility and innovative spirits. The university also upholds a strong athletic tradition, with outstanding sports teams achieving international accolades. CCNU attaches great importance to internationalization, striving to build an internationally oriented educational landscape. The university has established partnerships with institutions from various countries and regions, facilitating student exchanges, faculty visits, and joint training programs. An International Student Education Center provides comprehensive support and services to international students.



Furthermore, CCNU actively participates in international academic conferences and collaborative projects, promoting the international dissemination and sharing of academic achievements.

As a comprehensive normal university with a rich history and profound cultural heritage, CCNU enjoys a high reputation in the international academic community. The university will continue to uphold an open and inclusive attitude, strengthening collaborations with the international academic community and cultivating more talents with an international perspective and competitiveness. In the future, CCNU will strive to contribute to the modernization and internationalization of education.

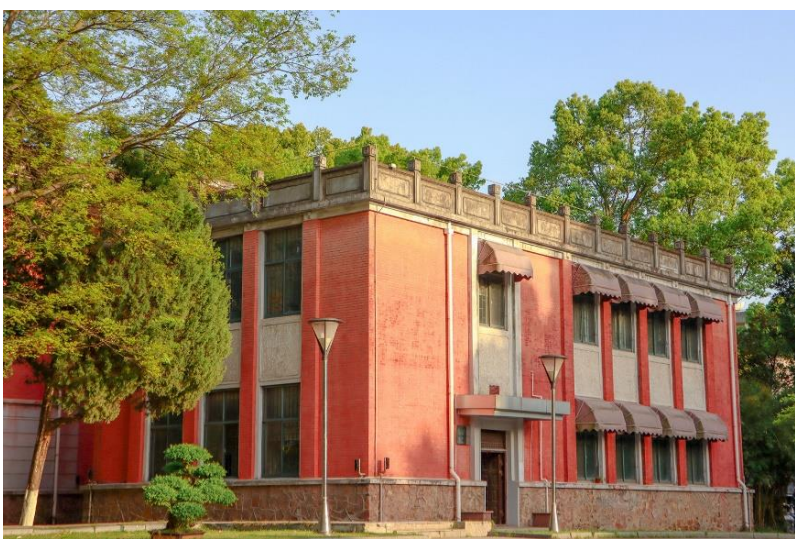
华中师范大学



华中师范大学位于九省通衢的湖北省武汉市，坐落在武昌南湖之滨的桂子山上，占地面积 160 余万平方米，是教育部直属重点综合性师范大学，国家“211 工程”重点建设大学，国家教师教育“985 优势学科创新平台”建设高校，国家“双一流”建设高校。学校办学历史悠久。溯源于 1903 年创办的文华书院大学部（始于 1871 年创办的文华书院，1924 年改名为华中大学）、1912 年创办的中华大学、1948 年创办的中原大学。1951 年中原大学教育

学院与华中大学合并组建成公立华中大学；1952 年中华大学、湖北教育学院等并入后，改名为华中高等师范学校；1953 年定名为华中师范学院；1985 年更名为华中师范大学，并由中原大学创始人之一邓小平同志亲笔题写校名。1993 年江泽民同志为学校九十周年校庆题词：“发展师范教育事业，提高民族文化素质”。学校既继承了中国传统文化的精华，又汲取了外来文化的养分，更弘扬了革命文化的传统，形成了“求实创新、立德树人”的校训和“忠诚博雅、朴实刚毅”的大学精神，为国家培养了 60 多万优秀人才。

学校人才培养体系完备。下设 30 个教学科研单位，有 84 个本科专业；32 个硕士学位授权一级学科，24 个硕士专业学位授权类别；21 个博士学位授权一级学科，2 个博士专业学位类别，20 个博士后科研流动站和 1 个博士后科研工作站。现有普通本科生 19200 余人，硕士研究生 15000 余人，博士研究生 2600 余人，另有国际学生 700 余人。学校师资队伍力量雄厚。现有教职工 3500 余人，专任教师 2000 余人，其中教授、副教授 1300 余人，博



士生导师 600 余人；有人文社科资深教授、国家级教学名师等各类国家级高层次人才百余人次。学校学科建设成效显著。拥有国家“双一流”建设学科 3 个，国家重点学科 9 个（含培育学科 1 个），湖北省优势特色学科（群）5 个，湖北省一级重点学科 22 个。现有国家工程研究中心、国家工程技术研究中心、全国重点实验室（共建）、教育部人文社会科学重点研究基地、国家教材建设重点研究基地、国家级国际联合研究中心、全国科普教育基地、省部共建协同创新中心，以及其它省部级人文社科研究基地、重点实验室、重点研究基地等 73 个。



学校教师教育特色不断彰显。拥有国家文科基础学科人才培养和科学研究基地 2 个（历史学、物理学），国家基础学科拔尖创新人才培养基地 3 个（历史学开沅班、物理学基地班、汉语言文学基地班）；国家级特色专业 12 个，国家级一流本科专业建设点 45 个。国家级一流课程 47 门；国家级专业综合改革试点项目 1 项（历史学）；国家级教学团队 7 个，国家级虚拟教研室 5 个，国家教学名师 4 个，

湖北省教学名师工作室 11 个；教育部卓越教师培养计划 2 项，国家级课程思政教学名师和教学团队 4 个。打造深度融合信息技术的高校人才培养体系，荣获国家级教学成果特等奖；同时承担国家教师发展协同创新实验基地、教育部教育信息化试点、教育部师范教育协同提质计划、中西部欠发达地区优秀教师定向培养计划、国家优秀中小学教师培养计划等建设任务。

学校校园文化丰富多彩。以“博学、博爱、博雅”为主题建设“三博”校园文化，90 余个学生社团活跃其中，“创新杯科学文化节”“树人杯艺术文化节”“博雅大讲堂”“一二·九诗歌散文大赛”“桂苑之歌”等品牌活动，在武汉乃至全国产生了较大影响。校园无线网络及学生宿舍空调实现全覆盖；图书馆馆藏面积近 5 万平方米，藏书 300 余万册，具有先进的“校园文献网络化管理与服务系统”，为学生学习生活提供了有力保障。

学校国际交流与合作日益频繁。与 250 多所国（境）外高校及科研机构建立了交流联系；与 70 余所高校签署学生交换及学分转换合作协议；每年选派大批学生赴国（境）外交流学习，在校长短期国际学生来自全球 100 多个国家和地区。

学校坚持以习近平新时代中国特色社会主义思想为指导，全面加强党的领导，坚定社会主义办学方向，落实立德树人根本任务，深化新时代教育教学改革，不断构建和完善更高质量的人才培养体系，为建成教师教育领先的世界一流大学而努力奋斗！

Faculty of Artificial Intelligence in Education, CCNU



华中师范大学人工智能教育学部

Faculty of Artificial Intelligence in Education, CCNU



Established in May 2020, the Faculty of Artificial Intelligence in Education (FOAIE) at Central China Normal University (CCNU) is a pilot platform for research and education in boosting comprehensive reformation and constructing “special discipline zone”. FOAIE consists of five secondary teaching and research units and twelve national, provincial and ministerial scientific research, teaching platforms and other institutions.

FOAIE are aimed to build the interdisciplinary innovation highland where artificial intelligence and education are deeply integrated, to completely support reform and innovation of teacher education. The mission of FOAIE is to construct the integrated breakthrough platform and the compound talents training mode of “AI + Education”, to create the pre and post service integrated cultivation system of “Future Teachers”, to build demonstration base of reform innovation, and to devote to construct National “AI + Education” Center for technology and innovation.

FOAIE is characterized by cross-disciplinary specialties and outstanding advantages in the deep integration of information technology and education, which supports the

华中师范大学人工智能教育学部于2020年5月30日在全国高校中率先启动并成立，是学校建设“学科特区”、实行综合改革的试点单位，由5个二级建制教学科研单位以及12个国家、省、部级科研、教学平台和其他机构组成。

学部以建成人工智能与教育深度融合的交叉学科创新高地，全面支撑学校教师教育改革创新为建设定位，以建设“人工智能+教育”集成攻关大平台、构建“人工智能+教育”复合型高水平人才培养模式、打造“未来教师”职前职后一体化人才培养体系、建设人工智能与教师教育创新服务改革示范基地为重点任务，致力于建设“人工智能+教育”领域国家技术创新中心。

学部学科专业交叉特色明显，信息技术与教育深度融合优势突出，支撑教育学一级学科入选“双一流”建设学科，在第五轮学科评估中获A+。



selection of the first-level discipline of pedagogy as a “Double First-Class” construction discipline and was awarded A+ in the fifth round of disciplinary assessment.

There are more than 2400 students enrolled in the Faculty, including nearly 1000 undergraduates and more than 1400 graduate students. It has formed a multi-level schooling pattern and talent cultivation system including full-time undergraduates, master students and doctoral students.

FOAIE offers five majors at the undergraduate level: Educational Technology, Digital Media Technology, Science Education, Artificial Intelligence, and Data Science and Big Data Technology; eight majors at the master's level: Education, Science Communication and Science Education, Educational Technology, Digital Media Technology, Educational Information Technology, Modern Educational Technology, and Chinese-foreign cooperative education: Computer Technology, and Communication Engineering (including Broadband Networking, Mobile Communication, etc.). There are four programs at the doctoral level, including Pedagogy, Educational Technology, Educational Information Technology, and Doctor of Education. The Faculty offers two post-doctoral research stations: Pedagogy and Educational Technology Post-doctoral Research Station for Enterprises.

The scientific research covers a wide range of fields, mainly including five areas: research on the theoretical innovation of intelligent education, research on intelligent education policy and governance, research on digital teaching change and innovative practice, research on intelligent education technology innovation, and research on teacher education in the era of intelligence. FOAIE is committed to carrying out organized and mission-driven scientific research in response to the major strategic needs of the country and has constantly made new breakthroughs. FOAIE has undertaken more than 350 national, provincial and ministerial projects, such as the National Science and Technology Infrastructure Program, the National High-tech R&D Program of China (863 Program), the National Natural Science Foundation of China

学部现有在校生 2400+人，其中本科生近 1000 人，研究生 1400 余人。形成了包括全日制本科生、硕士生和博士生在内的多层次办学格局和人才培养体系。

学部在本科层次设有 5 个专业：教育技术学、数字媒体技术、科学教育、人工智能、数据科学与大数据技术；在硕士层次设有教育学、科学传播与科学教育、教育技术学、数字媒体技术、教育信息技术、现代教育技术、中外合作办学：计算机技术、通信工程（含宽带网络、移动通信等）8 个硕士点；在博士层次设有教育学、教育技术学、教育信息技术、教育博士 4 个博士点。学部还设立了 2 个博士后科研工作站：教育学、教育技术学企业博士后工作站。

学部教师的科学研究领域广阔，主要包含 5 个方面：智能教育理论创新研究、智能教育政策与治理研究、数字化教学变革与创新实践研究、智能教育技术创新研究以及智能时代的教师教育研究。学部对接国家重大战略需求开展有组织与任务驱动的科研，不断取得新突破。先后承担国家科技支撑计划、国家 863 计划、国家自然科学基金、国家社科基金、教育部哲学社会科学重大攻关项目、国家科技创新 2030 重大项目等国家级、省部级项目 350 余项。

(NSFC), the National Social Science Foundation of China (NSSCF), the Philosophy and Social Science Major Project of the Ministry of Education, and the National Science and Technology Innovation 2030 Major Project, etc.

FOAIE has launched the “Go Global” Program and cooperated with internationally renowned scholars from Harvard University, Cambridge University, Massachusetts Institute of Technology (MIT), Nanyang Technological University (NTU), and the University of Wollongong (UWL). FOAIE have invited professors and experts from famous universities to provide full English courses and guide the practice of the program. FOAIE and UWL develop Chinese-foreign cooperative education at the master's level in computer technology (science) and communication engineering, realizing “studying abroad without leaving the country”; the scale of enrollment goes well with quality, and more than 500 graduates have been cultivated since 2016.

FOAIE has organized the special summer camp and summer school on AI education of CCNU for many consecutive years, hosted a series of influential international academic conferences, and supported students to go abroad to pursue their degrees and promote foreign cooperation and exchange. FOAIE will keep pace with the times and integrate disciplinary resources to meet the national strategic needs and realize new breakthroughs. By innovating the system and mechanism and deepening the reform, FOAIE will promote the integration of AI and education, to build a highland and nurture a new generation of talents to break into new paths, so that FOAIE can create a new peak in talent cultivation, scientific research and innovation, and the research of the think-tank, and lead the new development in the field of AI and education with a better performance, and contribute to the modernization of education.

学部实施“国际视野拓展计划”，与哈佛大学、剑桥大学、麻省理工学院、南洋理工大学、伍伦贡大学等高校科研机构的国际知名学者开展了广泛合作。引进优质国际课程体系与教学资源，邀请知名大学教授专家开设全英文课程并指导项目实施。与澳大利亚伍伦贡大学开展计算机技术（科学）和通信工程两个专业硕士层次中外合作办学，实现“不出国的留学”，招生规模与质量齐头并进，2016年以来培养毕业生500+人。

学部连续多年举办华中师范大学专题夏令营暨人工智能教育暑期学校，主承办了一系列具有行业影响力的国际学术会议，支持学生出国（境）攻读学位，促进对外合作交流。

面向未来，学部将顺应时代发展、整合学科资源、对标国家战略需求、实现新突破的重大契机，通过创新体制机制、全面深化改革，推动人工智能与教育的融合创新研究和实践，建高地、筑高峰、育新人、闯新路，打造人才培养、科研创新以及智库研究新高峰，以更佳业绩引领人工智能教育领域新发展，为教育现代化贡献力量。



Lab Visit



教育大数据应用技术国家工程研究中心

National Engineering Research Center of Educational Big Data

National Engineering Research Center of Educational Big Data

The National Engineering Research Center for Educational Big Data Application Technology (hereinafter referred to as the National Engineering Research Center) was approved for construction by the National Development and Reform Commission in 2017. It is a national-level scientific research platform dedicated to educational big data research and application innovation, specifically targeting the education sector. In 2021, it was included in the new sequence of national engineering research centers, becoming an important part of the national strategic science and technology force.

The National Engineering Research Center focuses on the strategic needs of national digital transformation in education, targeting the frontiers of intelligent educational science. It concentrates on the needs of the education sector and industry development, forming six research directions: the educational big data standards system, educational context awareness and learning tracking, education data aggregation and integration sharing, comprehensive modeling and learning analysis, intelligent management and decision-making in education, and intelligent educational services and visualization.

The National Engineering Research Center currently offers nine master's and doctoral programs, covering fields such as education, educational technology, computer science and technology, software engineering, and artificial intelligence. It awards degrees in education, science, and engineering, having graduated nearly a thousand master's and doctoral students. It has established a talent cultivation system integrating science, education, and industry, won the National Special Award for Teaching Achievement, and strongly supported Huazhong Normal University's education discipline in being selected for the national first-class discipline construction.

The National Engineering Research Center places a high emphasis on talent development and vigorously promotes the deep integration of talent and innovation chains. The current team comprises over 300 researchers and engineering technicians, forming a talent pipeline composed of strategic scientists, leading talents, and young faculty teams with a reasonable age structure and strong innovation capabilities. Five members have been selected for national talent programs, and 15 have been selected for provincial or ministerial talent programs. The center has undertaken several major national scientific and technological tasks, published more than 800 high-level papers, holds over 200 authorized patents (including nine international patents), has compiled 18 national (or international) standards, published over 100 monographs, and received more than 20 provincial or ministerial-level scientific and technological awards. In 2021, it was recognized as an advanced collective of professional and technical talents at the sixth national level.

The main facility of the National Engineering Research Center is located in the comprehensive building on the Nanhu Campus of Huazhong Normal University. It has 24,000 square meters of research and engineering practice office space and more than 4,000 sets of instruments and equipment. The center has built several data collection scenarios, such as the innovative landmark building of smart classrooms in the Nanhu Comprehensive Building and the Wuhan Educational Big Data System. It has also established first-class platforms for data support, AI capability services, technology research and development, and product testing and application in its field. The center has built a complete system for technological innovation and industrial development, formed an educational innovation practice system serving national and local smart education demonstration zones, and established an internationally leading independent innovation platform for educational big data.

实验室参观：教育大数据应用技术国家工程研究中心

教育大数据应用技术国家工程研究中心(以下简称国家工程研究中心)于 2017 年由国家发展改革委批复建设,是面向教育行业、专门从事教育大数据研究和应用创新的国家级科研平台,2021 年纳入国家工程研究中心新序列,是国家战略科技力量的重要组成部分。

国家工程研究中心围绕国家教育数字化转型战略需求,面向智能教育科学前沿,聚焦教育行业与产业发展需求,形成教育大数据标准体系、教育情境感知与学习追踪、教育数据汇聚与融合共享、综合建模与学习分析、教育智能管理与决策、教育智能服务与可视化 6 个研究方向。

国家工程研究中心现有硕博士专业 9 个,涵盖教育学、教育技术学、计算机科学与技术、软件工程、人工智能等方向,授予教育学、理学、工学等学位,累计培养硕博士毕业生近千名,建立了科教、产教融合的人才培养体系,获得国家级教学成果特等奖,并有力支撑华中师范大学教育学入选国家一流学科建设。

国家工程研究中心高度重视人才队伍建设,大力推动人才链和创新链深度融合。现有规模达 300 余人的研究与工程技术队伍,形成了由战略科学家、领军人才、青年教师团队组成的年龄结构合理、创新能力强的人才梯队,其中 5 人次入选国家级人才计划,15 人次入选省部级人才计划。承接了多项国家重大科技任务,发表高水平论文 800 余篇,持有授权专利 200 余项(其中国际专利 9 项),编制国家(国际)标准 18 项,出版专著 100 余部,累计获得 20 余项省部级以上科技奖励,2021 年获评第六届全国专业技术人才先进集体。

国家工程研究中心主体建设在华中师范大学南湖校区综合楼,拥有 24000 平米的研究与工程实践办公场地,仪器设备 4000 余台(套),建设了南湖综合楼教室创新地标大楼、武汉市教育大数据体系等多个数据采集场景,搭建了本领域一流的数据支撑平台、AI 能力服务平台、技术研发平台和产品试验应用平台,构建了完备的技术创新与产业发展体系,形成了服务国家及地方智慧教育示范区的教育创新实践体系,建成了国际领先的教育大数据自主创新平台。



CONFERENCE VENUE

Nanhu Complex Building
Central China Normal University (Nanhu Campus)
 华中师范大学南湖校区, 南湖综合楼



Address: NO.382 Xiongchu Road, Wuhan, Hubei, China
 地址: 湖北省武汉市洪山区雄楚大道 382 号

Maps





Reference Route (The following route plan is for reference only. Please refer to the actual situation)

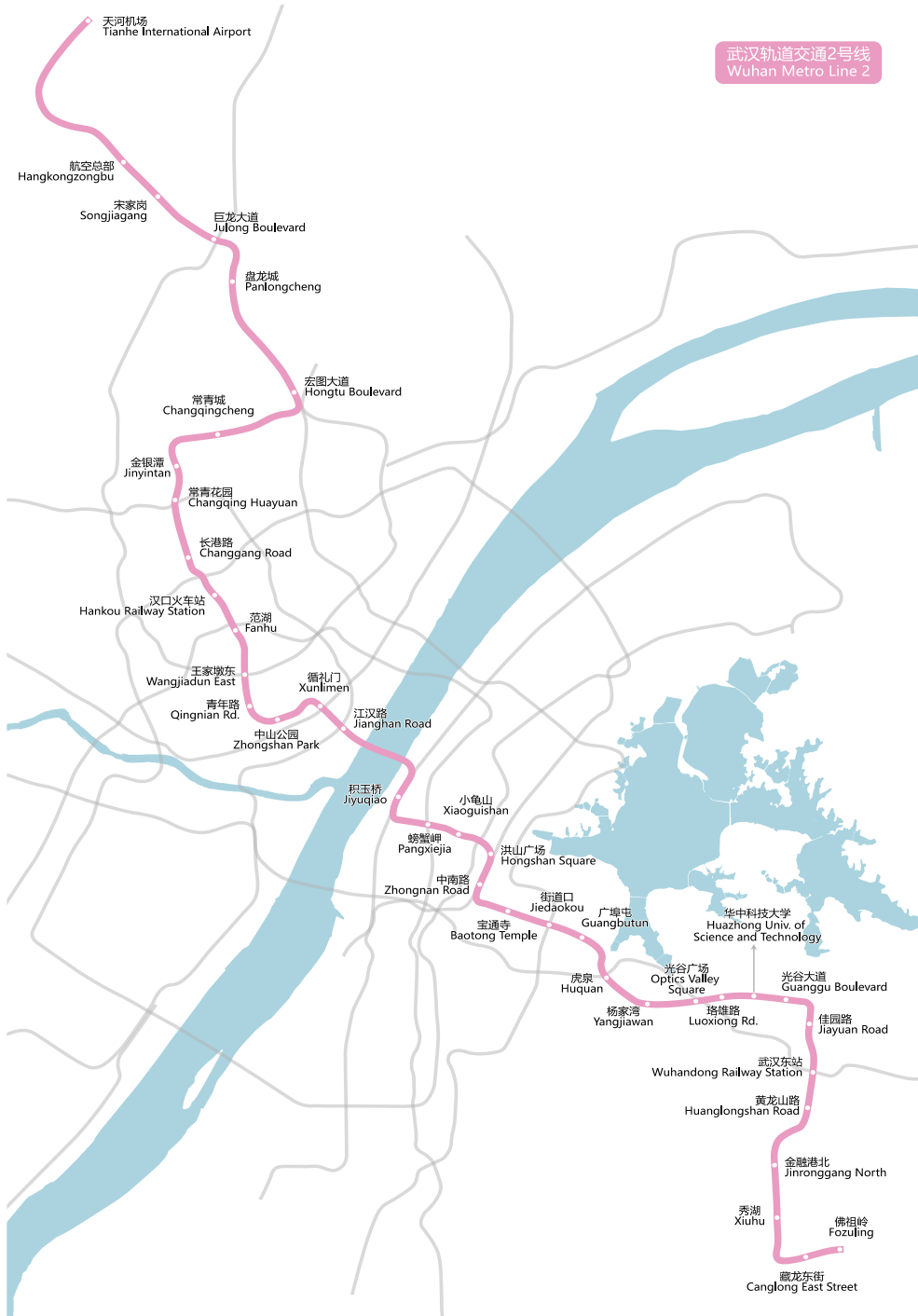
Wuhan Tianhe Airport - Central China Normal University Nanhu Campus

武汉天河机场-华中师范大学南湖校区

Subway + Bus Combination 轨道交通+公交

Take the Subway: From Tianhe Airport Station (Entrance B), take Line 2 of the Wuhan Metro (Fozuling direction) and ride for stations to Baotong Temple Station. (69min | 22 stations | ¥8)

乘坐地铁：从天河机场站（B口）乘坐轨道交通2号线（佛祖岭方向），经过22站到达宝通寺站。（69分钟 | 22站 | 8元）



Transfer to Bus: After exiting Baotong Temple Station (Exit B), walk approximately 216 meters (4min) to Wuluo Road Metro Baotong Temple Station and take Bus 723 (Qianshuiwan Road Fangjiazui direction). Ride for 8 stops to Guihu Road Xiongchu Avenue Stop. (22min | 8 stops | ¥2)

换乘公交: 从宝通寺站 (B口) 步行约 216 米 (4 分钟) 至武珞路地铁宝通寺站乘坐 723 路 (浅水湾路方家嘴方向), 经 8 站至桂湖路雄楚大道。(22 分钟 | 8 站 | 2 元)

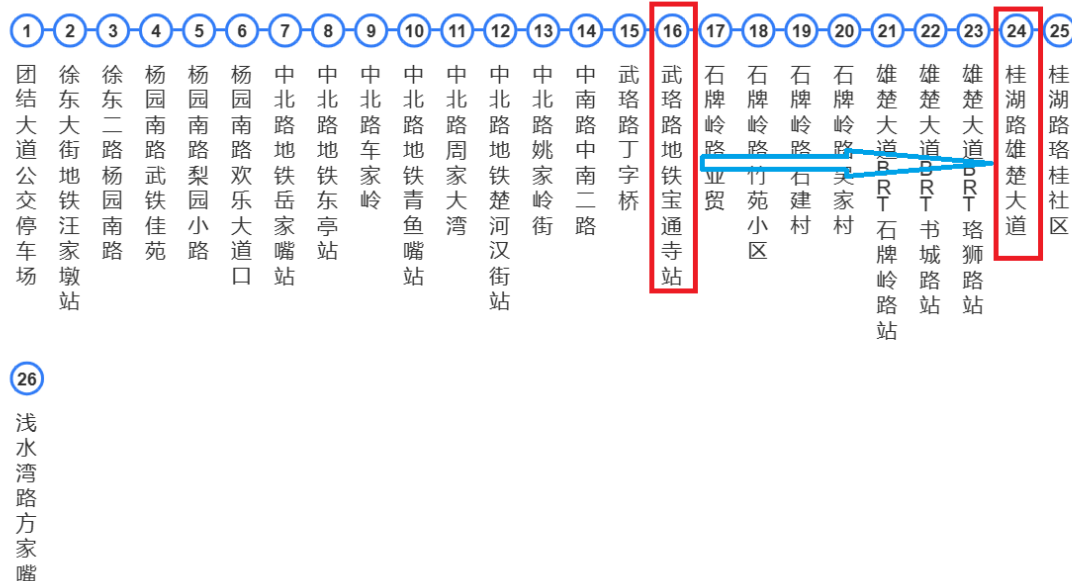
Walk to Destination: From Guihu Road Xiongchu Avenue Stop, walk approximately 62 meters to reach the South Lake Campus of Central China Normal University.

步行至目的地: 由桂湖路雄楚大道站步行约 62 米即可到达华中师范大学南湖校区。

武汉723路公交车路线

团结大道公交停车场—浅水湾路方家嘴

共26站

**Taxi 打车**

Route: Directly order a taxi through a taxi-hailing app or proceed to the official taxi pick-up point at the airport. The driver will take you directly to the entrance of the South Lake Campus of Central China Normal University.

路线：直接通过打车软件或前往机场官方上车点叫车，司机将直接送达华中师范大学南湖校区门口。

Travel Time: Depending on real-time traffic conditions, it takes about 1 hour and 3 minutes (in non-congested conditions) but may be longer during peak hours or in special weather conditions.

出行时间：根据实时路况，耗时约1小时3分钟（不堵车情况下），但高峰时段或特殊天气可能会有所延长。

Fare: Approximately 114 yuan, but the actual fare may vary depending on the vehicle type, real-time traffic conditions, and promotional activities. Fares may be higher during the early morning or special hours, with some mentioning a cost of around 150 yuan for a taxi ride at that time.

费用：约 114 元，但实际费用可能因车型、实时路况和优惠活动等因素有所变动。凌晨或特殊时段费用可能更高，凌晨打车可能需要 150 元左右。

Wuchang Railway Station - Central China Normal University Nanhu Campus

武昌火车站-华中师范大学南湖校区

Bus 公交

Bus BRT1 (22 min in total) | BRT1 路公交（总耗时约 22 分钟）

Take bus BRT1 at Wuchang Railway Station East Square Station and get off at Xiongchu Avenue BRT Yuanbaoshan station (17min | 6 stops), then walk to Nanhu Campus (5 min).



路线描述：武昌火车站东广场站乘坐 BRT1 路，途经 6 站（约 17 分钟），在雄楚大道 BRT 元宝山站下车，再步行至南湖校区（约 5 分钟）。

Bus 556 (26 min in total) | 556 路公交（总耗时约 26 分钟）

Take bus 556 at Wuchang Railway Station and get off at Xiongchu Avenue BRT Yuanbaoshan Station (21min | 7 stops), then walk to Nanhu Campus (5 min).

路线描述：武昌火车站乘坐 556 路公交，途经 7 站（约 21 分钟），在雄楚大道 BRT 元宝山站下车，步行到达南湖校区（约 5 分钟）。

Subway + Taxi Combination 轨道交通+打车路线

Subway line 4→line 2→Taxi (26min in total) | 轨道交通 4 号线→2 号线→打车（总耗时约 26 分钟）

Take Line 4 (Wuhan Railway direction) at Wuchang Railway Station and get off at Zhongnan Road Station (4min | 2 stops). Transfer to Line 2 (Fozuling direction) and get off at Jiedaokou station (5min | 2 stops) (Exit A). Take taxi to Nanhu Campus (12 min).

路线描述：在武昌火车站乘坐轨道交通 4 号线（武汉火车站方向），途经 2 站（约 4 分钟）在中南路站下车，换乘轨道交通 2 号线（佛祖岭方向），再途经 2 站（约 5 分钟）在街道口（A 口出）。之后打车前往南湖校区（打车约 12 分钟）。

Taxi | 打车/驾车 (7.0 km | 21 min | 18 RMB)

By taxi: The distance is about 7.0 kilometers, takes about 21 minutes, and costs about 18 yuan (the specific cost may vary depending on traffic conditions and vehicle type).

打车：距离约 7.0 公里，耗时约 21 分钟，花费约 18 元（具体费用可能因交通状况和车型而有所不同）。

By car: The distance is about 7.1 kilometers, takes about 21 minutes, but you need to pay attention to traffic conditions and parking issues around the campus.

驾车：距离约 7.1 公里，耗时约 21 分钟，但需注意校园周边的交通状况和停车问题。

Wuhan Railway Station - Central China Normal University Nanhu Campus

武汉火车站-华中师范大学南湖校区

Subway + Bus Combination | 轨道交通+公交

Subway line 4→Bus BRT1/556 (59min in total) | 轨道交通 4 号线→BRT1/556 路公交（总耗时约 59 分钟）

Take Line 4 (Huangjinkou direction) at Wuhan Railway Station and get off at Wuchang Railway Station (37 min | 14 stops). Transfer to bus BRT1 or bus 556 at East Square of Wuchang Railway Station and get off at Xiongchu Avenue BRT Yuanbaoshan Station (17 min | 6 stops). Then walk to Nanhu Campus (5 min).

在武汉火车站乘坐轨道交通 4 号线（黄金口方向）途经 14 站在武昌火车站下车（约 37 分钟），然后于武昌火车站东广场换乘 BRT1 或 556 路公交，途经 6 站在雄楚大道 BRT 元宝山站下车（约 17 分钟），再步行至南湖校区（约 5 分钟）。

Subway line 4→line 2→Bus 804 (73min in total) | 轨道交通 4 号线→轨道交通 2 号线→804 路公交（总耗时约 1 小时 13 分钟）

Take Line 4 (Berlin direction) at Wuhan Railway Station and get off at Zhongnan Road Station (26 min | 12 stops). Transfer to Line 2 (Buddha Ridge direction) and get off at Baotongsi Station (3 min | 1 stop) (Exit A). Transfer to bus 804 at Wuluo Road Metro Baotongsi Station Bus Stop and get off at "Xiongchu Avenue BRT Yuanbaoshan Bus Stop" (16 min | 7 stops). Walk to Nanhu Campus (6 min).

在武汉火车站乘坐轨道交通 4 号线（柏林方向）途经 12 站（大约 26 分钟）在“中南路站”下车，然后换乘轨道交通 2 号线（佛祖岭方向），途经 1 站在“宝通寺站”（约 3 分钟）下车（A 口出），再步行至“武珞路地铁宝通寺站公交站”换乘 804 路公交，途经 7 站（约 16 分钟）在“雄楚大道 BRT 元宝山站公交站”下车，再步行至南湖校区（约 6 分钟）。



Dining Location

Lunch

Nanhu Canteen 南湖食堂



Participants can enter the restaurant to dine according to the on-site signage. The dining area for ICET 2024 participants is located on the second floor.

参会者可根据指引牌找到餐厅所在位置，ICET 参会者用餐区域位于食堂二楼。

Diner (Buffet)



Xiongchu International Hotel

武汉雄楚国际大酒店

Address: No.335 Xiongchu Avenue, Hongshan District, Wuhan, China

地址：中国湖北省武汉市洪山区雄楚大道 335 号



The hotel is close to Huazhong Normal University, surrounded by various scientific research institutions, government agencies, the traffic is very convenient.

酒店邻近华中师范大学，周边有各科研机构、政府机关，交通十分便利。

- To the south gate of Huazhong Normal University, about 5 minutes' walk.
至华中师范大学南门（会场），步行约 5 分钟。
- 7 kilometres from Wuchang Railway Station, about 20 minutes by taxi.
距离武昌火车站 7 公里，乘坐出租车约 20 分钟。
- 25 kilometres from Wuhan Railway Station (High Speed Rail), about 30 minutes by taxi.
距离武汉火车站（高铁）25 公里，乘坐出租车约 30 分钟。
- 45 kilometres from Wuhan Tianhe Airport, about 50 minutes by taxi.
距离武汉天河机场 45 公里，乘坐出租车约 50 分钟。
- Huquan - Metro Station 0.9 kilometres
虎泉-地铁站 0.9 公里



ONSITE CONFERENCE GUIDELINES

Time Zone: Beijing Time (UTC+8)

For Oral Presentation Guidelines

Timing: a maximum of 15 minutes total, including speaking time and discussion. Please make sure your presentation is well timed.

Each speaker is required to meet her / his session chair in the corresponding session rooms 10 minutes before the session starts and copy the slide file (PPT or PDF) to the computer.

It is suggested that you email a copy of your presentation to your personal in box as a backup. If for some reason the files can't be accessed from your flash drive, you will be able to download them to the computer from your email.

Please note that each session room will be equipped with a LED projector, screen, point device, microphone, and a laptop with general presentation software such as Microsoft Power Point and Adobe Reader

For Poster Presentation Guidelines

Each presentation lasts 15 minutes, including 2-3 minutes for Q&A.

Size and Format: A1 size, portrait format

Content: Paper ID: Display your paper ID at the top-right corner of each slide to assist organizers in managing your poster. **Contact Information:** Include your email address or a QR code on the poster to help attendees find your poster and reach out to you.

Key Details: Ensure your poster covers the main points of your presentation, including the title, authors, abstract, tables and figures, methodology, results, conclusion, and references.

Printing and Display: Authors are required to print and display the poster by themselves.

Authors need to bring their posters to the conference and post them according to the assigned poster board number.

Display Area: Lobby of Nanhu Complex Building (2nd Floor) 南湖综合楼二楼

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Please ensure that you always take all items of value with you when leaving a room. Do not leave bags or laptops unattended. The conference organizer does not assume any responsibility for the loss of personal belongings of the participants.

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About Online Presentation

Time Zone: Beijing Time (UTC+8)

*You are suggested to set up the time on your computer in advance.

Platform: Zoom



Download Link: <https://zoom.us/download>

Online Rooms Information

Online Room	Zoom ID	Link	Password
Room A	880 0215 3256	https://us02web.zoom.us/j/88002153256	Wuhan
Room B	827 6075 5186	https://us02web.zoom.us/j/82760755186	Wuhan

*Please use the Password: **Wuhan** to enter the online meeting room.

Zoom Testing

Thursday, September 12, 2024 (UTC+8)		
16:00-18:00	Room A: 880 0215 3256	Committee / Speakers
		Authors

1. You can download the virtual background [here](#).
2. Prior to the formal conference, presenter shall join the test room to make sure everything is on the right track .
3. Note: Please rename your Zoom Screen Name to Track Number +Paper ID +Name.



Environment & Equipment Needed

A quiet place;

Stable Internet connection

Proper lighting and background

A computer with internet and camera

Earphone

Conference Recording

- We'll record the whole conference. If you do mind, please inform us in advance. We will stop to record when it is your turn to do the presentation.
- The whole conference will be recorded. It is suggested that you should dress formally, and we appreciate your proper behavior.
- * The recording will be used for conference program and paper publication requirements. It cannot be distributed to or shared with anyone else, and it shall not be used for commercial nor illegal purpose.

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PROGRAM AT A GLANCE

Thursday Sep. 12th		Friday Sep. 13th		Saturday Sep.14th		Sunday Sep.15th	
10:00-16:00	Material Collection	09:00-09:05	Opening Remarks	09:00-10:00	Invited Speakers	10:00-12:00	Campus Tour
10:30-12:30	Lab Visit	09:05-09:10	Welcome Remarks	10:00-10:30	Break		
16:00-18:00	Zoom Test	09:10-09:30	Group Photo	10:30-12:00	Chinese Forum		
		09:30-10:10	Keynote 1	12:00-13:30	Lunch		
		10:10-10:50	Keynote 2	15:55-18:10	Session		
		10:50-11:20	Break	13:30-15:30	Parallel Tracks		
		11:20-12:00	Keynote 3	13:30-15:45	Poster Session 1		
		12:00-13:30	Lunch	15:30-16:00	Break		
		13:30-14:10	Keynote 4	16:00-18:00	Parallel Tracks		
		14:10-14:50	Keynote 5	16:00-18:15	Poster Session 2		
		14:50-15:30	Break	19:00-21:00	Dinner		



		15:30-17:30	Best Paper Selection				
		15:30-17:30	Parallel Tracks				
		17:30-18:00	Break				
		18:00-18:30	Award Ceremony				
		19:00-21:00	Dinner (Buffet)				

CONFERENCE ROOM LOCATION

Time	Level	Venue	Activity
Sep.12	2 nd Floor	Lobby of Nanhu Complex Building	Registration and Material Collection Lab Visit Sign-in
	11 th Floor	National Engineering Research Center of Educational Big Data	Lab Visit
Sep.13	1 st Floor	Nanhu Complex Building Nanhu Lecture Hall	Keynote Speeches
	2 nd Floor	Nanhu Canteen Faculty Dining Area	Lunch
	1 st Floor	Room N111	Best Paper Award Selection
	1 st Floor	Room N109, N112, N113, N115, N117	Track 1-5
	1 st Floor	Xiongchu International Hotel Western Restaurant	Dinner
Sep.14	2 nd Floor	Room 201	Invited Speaker 1、 6
	8 th Floor	Room 8001	Invited Speaker 2、 7 Track 6、 Track 10
	8 th Floor	Room 8006	Invited Speaker 3、 8 Track 7、 Track 11
	10 th Floor	Room 10001	Invited Speaker 4、 9、 11 Track 8、 Track 12
	10 th Floor	Room 10127	Invited Speaker 5、 10、 12 Track 9、 Track 13
	2 nd Floor	Lobby of Nanhu Complex Building	Poster Session 1+2
Sep.15	1 st Floor	Archives & History Museum of Central China Normal University	Campus Tour



CONFERENCE AGENDA

Thursday, September 12, 2024 | (UTC/GMT+8)

Sign-in and Materials Collection

10:00-16:00

Lobby of Nanhu Complex Building

 2nd Floor

Steps:

1. Give your Paper ID to the staff. 告知工作人员您的文章/听众编号
2. Sign your name in the attendance list and check meal information. 在签到表签字并反馈用餐信息
3. Check your Conference Kit. 领取注册资料

Lab Visit (Sign-in at 10:00 am)

10:30-12:30

National Engineering Research Center of Educational Big Data

 11th Floor

Zoom Testing for Online Participants

16:00-18:00

Online Room A: 880 0215 3256 (Password: Wuhan)

Friday, September 13, 2024 | (UTC/GMT+8)

Venue: Nanhu Lecture Hall (1st Floor) 一楼南湖学术报告厅
Online Room A: 880 0215 3256
Password: Wuhan
Host: Assoc. Prof. Zhi LIU, Central China Normal University, China

09:00-09:05	Opening Remark	Prof. Sannyuya LIU , Central China Normal University, China Vice President of CCNU
09:05-09:10	Welcome Address	Prof. Mingzhang ZUO , Central China Normal University, China Vice Dean of the School of Educational Information Technology
09:10-09:30	Group Photo	
09:30-10:10	Keynote Speech 1	Prof. Xiangen HU , The Hong Kong Polytechnic University, China Title: CbITS & LLM: Teaching an Old Dog New Tricks

10:10-10:50	Keynote Speech 2	Prof. Dragan Gasevic , Monash University, Australia Title: Reimagining Assessment for the Skills in the Age of Artificial Intelligence
10:50-11:20	Coffee Break	
11:20-12:00	Keynote Speech 3	Prof. Qi LIU , University of Science and Technology of China, China Title: Cognitive Diagnosis for Intelligent Education: A Machine Learning Perspective
12:00-13:30	Lunch	Nanhu Canteen- Faculty Dining Area 2 nd Floor
Host: Prof. Yuqin YANG, Central China Normal University, China		
13:30-14:10	Keynote Speech 4	Prof. Siu Cheung Kong , Education University of Hong Kong, China Title: Use Generative AI Tools for Developing Self-Regulated Learning: Opportunities and Challenges
14:10-14:50	Keynote Speech 5 (Online)	Prof. Minhong (Maggie) WANG , The University of Hong Kong, China Title: Rethinking How People Learn for Effective Learning Design and Analysis
14:50-15:30	Coffee Break	
Parallel Tracks		
15:30-17:30	Best Paper Award Selection Evaluators: Xiaoxuan SHEN, Yunwu WANG and Vincent CS LEE	Room N111 1 st Floor
	Track 1: Gamification of Education and Game-Based Learning Track Chair: Prof. Sadayoshi MIKAMI, Future University Hakodate, Japan	Room N109 1 st Floor
	Track 2: Extended Reality Technology in Education and Virtual Learning Environment Track Chair: Prof. Tai WANG, Central China Normal University, China	Room N112 1 st Floor
	Track 3: Mobile Learning and Intelligent Teaching Platform Track Chair: Assoc. Prof. Huang YAO, Central China Normal University, China	Room N113 1 st Floor



	Track 4: Educational Informatization, Online Education, and Blended Learning Track Chair: Assoc. Prof. Liang ZHAO, Central China Normal University, China	Room N115 1 st Floor
	Track 5: Intelligent Education Video Analysis: From Facial Expression Recognition to Sentiment Analysis Track Chair: Prof. Jingying CHEN, Central China Normal University, China	Room N117 1 st Floor
17:30-18:00	Break	
18:00-18:30	Award Ceremony	Room N111 1 st Floor
19:00-21:00	Dinner (Buffet)	Xiongchu International Hotel Western Restaurant 1 st Floor

Saturday, September 14, 2024 | (UTC/GMT+8)

Room 201 2 nd Floor	Host: Assoc. Prof. Zhu SU, Central China Normal University, China	
09:00-09:20	Invited Speech 1	Prof. Jianwen SUN , Central China Normal University, China Title: AI4LS: A New Research Paradigm for Learning Sciences
09:20-09:40	Invited Speech 6	Assoc. Prof. Vincent CS LEE , Monash University, Australia Title: Active Learning in Computer Networks Course: Challenges & Opportunities for Personalised Education
Room 8001 8 th Floor	Host: Prof. Yuqin YANG, Central China Normal University, China	
09:00-09:20	Invited Speech 2	Assoc. Prof. Hang HU , Southwest University, China Title: From Human-machine Integration to Deeper Learning: Paradigm, Methodology and Value Implications

09:20-09:40	Invited Speech 7	<p>Prof. Yu XIONG, Chongqing University of Posts and Telecommunications, China</p> <p>Title: AI + Data Boosting Generative Education Evaluation of Human-machine Collaboration</p>
Room 8006 8 th Floor	Host: Assoc. Prof. Ying FANG, Central China Normal University, China	
09:00-09:20	Invited Speech 3	<p>Asst. Prof. Yizhou FAN, Peking University, China</p> <p>Title: Learning and Regulating with ChatGPT: What Experimental Study Tells Us</p>
09:20-09:40	Invited Speech 8	<p>Assoc. Prof. Yang CHEN, Harbin Institute of Technology (Shenzhen), China</p> <p>Title: Understanding Chinese EFL Learners' Acceptance of Gamified Vocabulary Learning Apps</p>
Room 10001 10 th Floor	Host: Assoc. Prof. Xian PENG, Central China Normal University, China	
Online Room B: 827 6075 5186 Password: Wuhan		
09:00-09:20	Invited Speech 4	<p>Prof. Xuesong ZHAI, Zhejiang University, China</p> <p>Title: Integrating Generative AI and Reverse Engineering Pedagogy in Promoting AI-human Interaction: An empirical study from K-12 Programming Education</p>
09:20-09:40	Invited Speech 9	<p>Asst. Prof. Taotao LONG, Central China Normal University, China</p> <p>Title: Promoting Pre-service Science Teachers' Design of Inquiry-based Instruction via Knowledge Integration (KI) based Collaborative Learning Environment: a network analysis approach</p>
09:40-10:00	Invited Speech 11 (Online)	<p>Assoc. Prof. Xu FANG, Nantong University, China</p> <p>Title: Research on Educational Technology: Combination of Structural Equation and Qualitative Comparative Analysis of Fuzzy Sets</p>
Room 10127 10 th Floor	Host: Assoc. Prof. Zhicheng DAI, Central China Normal University, China	


Online Room A: 880 0215 3256 Password: Wuhan

09:00-09:20	Invited Speech 5 (Online)	Senior Lecturer Dr. Qingqing XING , The Hong Kong University of Science and Technology (Guangzhou), China Title: Investigating the Impact of Deliberate Metaphor in Introduction through Eye Tracking Analysis
09:20-09:40	Invited Speech 10 (Online)	Assoc. Prof. Anuchai Theeraroungchaisri , Chulalongkorn University, Thailand Title: Enhancing Pharmacy Education through AI-Assisted Role-Play: A Case Study Using ChatGPT in Community Pharmacy Course
09:40-10:00	Invited Speech 12 (Online)	Senior Research Fellow Dr. Feifei HAN , Australian Catholic University, Australia Title: Generative Artificial Intelligence (GenAI) in Writing Research: A State-of-the-Art Review

10:00-10:30
Coffee Break
Chinese Forum 中文论坛: “AI4Science 视域下的教育科学研究范式创新”
Venue: Nanhu Lecture Hall (1st Floor) 南湖学术报告厅 (一楼)
Online Room A: 880 0215 3256 Password: Wuhan
Host: Assoc. Prof. Qing LI, Central China Normal University, China
主持人: 李卿副教授, 华中师范大学, 中国

10:30-12:00	胡祥恩教授, 香港理工大学, 中国 Prof. Xiangen HU, The Hong Kong Polytechnic University, China
	江绍祥教授, 香港教育大学, 中国 Prof. Siu Cheung Kong, Education University of Hong Kong, China
	王敏红教授, 香港大学, 中国 Prof. Minhong (Maggie) WANG, The University of Hong Kong, China
	刘均教授, 西安交通大学, 中国

	Prof. Jun LIU, Xi'an Jiaotong University, China	
	余亮教授, 西南大学, 中国	
	Prof. Liang YU, Southwest University, China	
	罗恒教授, 华中师范大学, 中国	
	Prof. Heng LUO, Central China Normal University, China	
12:00-13:30	Lunch	Nanhu Canteen Faculty Dining Area 2 nd Floor
Parallel Tracks		
13:30-15:30	Track 6: Artificial Intelligence Enhanced Special Education and Collaborative Learning Track Chair: Assoc. Prof. Xianglian YU, Jiangnan University, China	Room 8001 8 th Floor
	Track 7: Technology-Enhanced Learning and Instruction-A Track Chair: Assoc. Prof. Ying FANG, Central China Normal University, China	Room 8006 8 th Floor
	Track 8: Learning Analytics and Educational Data Mining Track Chair: Assoc. Prof. Pei Cheng Ooi, University of Nottingham Malaysia, Malaysia	Room 10001 10 th Floor
	Track 9: Artificial Intelligence Applications and Innovations in Education-A Track Chair: Assoc. Prof. Jianwei LI, Beijing University of Posts and Telecommunications, China	Room 10127 10 th Floor
13:30-15:45	Poster Session 1: Educational Data Mining and Intelligent Teaching Video Analysis Session Chair: Prof. Hairu YANG, China West Normal University, China	Lobby of Nanhu Complex Building 2 nd Floor
15:30-16:00	Coffee Break	



16:00-18:00	Track 10: Technology-Enabled Learning Science and Learning Mechanisms Track Chair: Assoc. Prof. Hang HU, Southwest University, China	Room 8001 8 th Floor
	Track 11: Technology-Enhanced Learning and Instruction-B Track Chair: Assoc. Prof. Kaifang YANG, Shaanxi Normal University, China	Room 8006 8 th Floor
	Track 12: Data and Theories-Driven Empirical Research in Education Track Chair: Dr. Dongpo GUO, Jiangnan University, China	Room 10001 10 th Floor
	Track 13: Artificial Intelligence Applications and Innovations in Education-B Track Chair: Dr. Jing ZHANG, Jiangnan University, China	Room 10127 10 th Floor
16:00-18:15	Poster Session 2: Artificial Intelligence and Cognitive Network Analysis in Education Session Chair: Assoc. Prof. Zhu SU, Central China Normal University, China	Lobby of Nanhu Complex Building 2 nd Floor
19:00-21:00	Dinner	Xiongchu International Hotel Western Restaurant 1 st Floor

Sunday, September 15, 2024 | (UTC/GMT+8)

10:00-12:00	Campus Tour
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KEYNOTE SPEAKER 1

Prof. Xiangen HU

The Hong Kong Polytechnic University, China

“CbITS & LLM: Teaching an Old Dog New Tricks”

Speech time: 09:30-10:10, Friday, September 13, 2024 (UTC+8)

Venue: Nanhu Lecture Hall (1st Floor)

Online Room A: 880 0215 3256 (Password: Wuhan)



Prof. Xiangen Hu began his academic journey in applied mathematics, earning his bachelor's and master's degrees from Huazhong University of Science and Technology in 1982 and 1985, respectively. He then moved to the United States to further his education, obtaining a master's in social sciences in 1991 and a Ph.D. in cognitive psychology in 1993. Before his current position as a chair professor in learning sciences and technologies at PolyU, Prof. Hu held several positions. He was a professor in the Departments of Psychology, Electrical and Computer Engineering, and Computer Science at The University of Memphis (UofM) for 30 years, where he also worked as a senior researcher at the Institute for Intelligent Systems (IIS). His leadership roles included serving as a professor and Dean of the School of Psychology at Central China Normal University (CCNU), leading the Advanced Distributed Learning (ADL) Partnership Laboratory at UofM, and working as a senior researcher at the Key Laboratory of Adolescent Cyberpsychology and Behavior, backed by the Chinese Ministry of Education. Prof. Hu's research focuses on four key areas: developing mathematical models to decode human cognitive behavior, specializing in research design and statistical analysis particularly for categorical data using general processing tree models, delving into artificial intelligence for knowledge representation, creating computerized tutoring systems, and enhancing distributed learning technologies. His work has attracted significant funding from prestigious bodies like the US National Science Foundation, the US Institute of Education Sciences, the Advanced Distributed Learning initiative of the US Department of Defense, the US Army Medical Research Acquisition Activity, the US Army Research Laboratories, and the US Office of Naval Research. As the lead principal investigator, Prof. Hu has managed projects with over \$10 million in funding, and as a co-principal investigator, he has been involved in projects amassing more than \$30 million in grants.

Title: CbITS & LLM: Teaching an Old Dog New Tricks

Abstract: We will explore how Conversation-based Intelligent Tutoring Systems (CbITS) are being enhanced through the integration of Large Language Models (LLMs). Both CbITS and LLMs draw their power from natural language—the “universal interface” for human communication—making them highly impactful in learning environments. Whether it's through a traditional tutor or advanced AI, conversation remains the foundation of effective learning.



CbITS have been successful in delivering personalized, conversation-driven tutoring for years. However, as educational needs evolve, even the most reliable systems benefit from an upgrade. Enter LLMs. With their advanced natural language processing abilities, LLMs are perfectly positioned to supercharge CbITS, making them more adaptive, responsive, and engaging. We'll examine how the first and most natural application of LLMs in education is to enhance CbITS, expanding their ability to deliver deeper, more personalized learning experiences.

In this talk, we will explore real-world examples of how LLMs are revitalizing CbITS and improving learning outcomes. We'll also discuss the broader implications of this integration, particularly in bridging educational gaps between mainstream and marginalized contexts.

Finally, we'll introduce the Socratic Playground for Learning (SPL)—a practical, “lowest-hanging fruit” example that demonstrates how naturally LLMs can enhance CbITS, showing that even the “oldest” systems can learn new tricks.

KEYNOTE SPEAKER 2

Prof. Dragan Gasevic

Monash University, Australia

“Reimagining Assessment for the Skills in the Age of Artificial Intelligence”

Speech time: 10:10-10:50, Friday, September 13, 2024 (UTC+8)

Venue: Nanhu Lecture Hall (1st Floor)

Online Room A: 880 0215 3256 (Password: Wuhan)



Dragan Gašević is Distinguished Professor of Learning Analytics in the Faculty of Information Technology and the Director of the Centre for Learning Analytics (CoLAM) at Monash University. His research interests in learning analytics center around the development of computational and design methods that can advance understanding of self-regulated and collaborative learning. Previously, he was a Professor and the Sir Tim O’Shea Chair in Learning Analytics and Informatics (Feb 2015–Feb 2018) in the Moray House School of Education and the School of Informatics and Co-Director of Centre for Research in Digital Education at the University of Edinburgh. He was the Canada Research Chair in Semantic and Learning Technologies and Professor in the School of Computing and Information Systems at Athabasca University (Jan 2007–Jan 2015). He is a founder and served as the President (2015–2017) of the Society for Learning Analytics Research (SoLAR), the world’s leading research and professional organization in learning analytics. He has held several honorary professorships and industry fellowships in Asia, Australia, Europe and North America. He served as a founding program chair of the International Conference on Learning Analytics & Knowledge (LAK) in 2011 and 2012, the general chair in 2016, a founding program co-chair of the Learning Analytics Summer Institute (LASI) in 2013 and 2014, and a founding editor of the Journal of Learning Analytics (2012–2017) and Computers & Education: Artificial Intelligence (2020–present). In 2019–2022, he was recognized as the national field leader in educational technology in The Australian – the only Australian daily newspaper distributed nationally. He led the EU-funded SHEILA project that received the Best Research Project of the Year Award (2019) from the Association for Learning Technology. In 2022, he received the Lifetime Member Award, the highest distinction of the Society for Learning Analytics Research (SoLAR) and named a Distinguished Member of the Association for Computing Machinery (ACM), the world’s largest computing society.

Title: Reimagining Assessment for the Skills in the Age of Artificial Intelligence

Abstract: Effective assessment is the bedrock of understanding and promoting student learning. Conventional approaches to assessment have been challenged with advancements in artificial intelligence (AI). This requires reconceptualization of what and how we assess. At the same time, AI offers technology that can advance many limitations in existing practice of assessment. This talk will present a vision for the future of assessment. We will first



describe how assessment can harness the power of AI to provide continuous assessments that offer ongoing feedback throughout the learning journey. We will then discuss the use of AI that enables scaling of authentic assessment that is situated in real-world applications of important skills. Finally, we will explore future-ready assessments that measure skills crucial for success while working with AI. This talk will showcase practical examples and research findings to demonstrate the effectiveness of these assessment approaches in the age of AI.

KEYNOTE SPEAKER 3

Prof. Qi LIU

University of Science and Technology of China, China

“Cognitive Diagnosis for Intelligent Education: A Machine Learning Perspective”

Speech time: 11:20-12:00, Friday, September 13, 2024 (UTC+8)

Venue: Nanhu Lecture Hall (1st Floor)

Online Room A: 880 0215 3256 (Password: Wuhan)



Dr. Qi Liu is a professor in the School of Computer Science and Technology at University of Science and Technology of China. His general area of research is educational data mining and intelligent education (e.g., cognitive diagnosis, adaptive learning, and testing). He has published more than 100 papers in refereed journals and conference proceedings (e.g., IEEE TKDE and ACM SIGKDD). These papers have been cited for more than 12,000 times, and his H-index is 57. The representative papers won the ACM SIGKDD 2018 Best Student Paper Award (Research Track), IEEE ICDM 2011 Best Research Paper Award and CIKM 2023 best paper runners-up award. He is an Associate Editor of IEEE Transactions on Big Data (TBD) and Neurocomputing. He is also a member of the Alibaba DAMO Academy Young Fellow.

Title: Cognitive Diagnosis for Intelligent Education: A Machine Learning Perspective

Abstract: Cognitive diagnosis is a type of assessment for automatically measuring individuals' proficiency profiles from their observed behaviors, e.g. quantifying the mastery level of students on specific knowledge concepts/skills. As one of the fundamental research tasks in intelligent education, a number of Cognitive Diagnosis Models (CDMs), rooted in psychometric theories, have been developed in the past decades. This talk aims to provide the recent development of cognitive diagnosis from a novel machine learning perspective, where both the routine behaviors of students and the detailed information of learning resources can be well-exploited. Furthermore, the applications of cognitive diagnosis in adaptive learning and adaptive testing will be discussed, especially the way of its integration with large language models. Also, two public libraries, Edu Data and Edu CDM (<https://github.com/bigdata-ustc/EduCDM>), are given for offering valuable resources for the research community of cognitive diagnosis.



KEYNOTE SPEAKER 4

Prof. Siu Cheung Kong

Education University of Hong Kong, China

“Use Generative AI Tools for Developing Self-Regulated Learning: Opportunities and Challenges”

Speech time: 13:30-14:10, Friday, September 13, 2024 (UTC+8)

Venue: Nanhu Lecture Hall (1st Floor)

Online Room A: 880 0215 3256 (Password: Wuhan)



Professor Kong Siu-cheung currently is Research Chair Professor of E-Learning and Digital Competency at the Department of Mathematics and Information Technology (MIT); and Director of Artificial Intelligence and Digital Competency Education Centre (AIDCED), the Education University of Hong Kong. Professor Kong holds a doctorate from the Department of Computer Science of the City University of Hong Kong. He has produced over 270 academic publications in the areas of computational thinking education, STEM education, artificial intelligence literacy education, metaverse literacy education, flipped classroom strategy, teacher development, mathematics education, and policy on digital technology in education. He has completed/conducted 85 research projects since joining the University (the then Hong Kong Institute of Education). Professor Kong is at present serving as the Editor-in-Chief of the international journal Research and Practice in Technology Enhanced Learning (RPTEL) and Journal of Computers in Education (JCE). He was in the President of the Asia-Pacific Society for Computers in Education (APSCE) in 2014 and 2015; and is serving as the President of the Global Chinese Society for Computers in Education (GCSCE) from July 2023 to June 2025. Professor Kong was the Convener of International Research Networks (IRNs), World Educational Research Association (WERA) (December 2012 to December 2015: Theory and Practice of Pedagogical Design for Learning in Digital Classrooms; May 2019 to April 2022: Computational Thinking Education in Primary and Secondary Schools). Professor Kong is on the list of Stanford Top 2% Scientist in Education in 2019 (single-year data), in 2020, 2021 and 2022 (single-year data & career-long data). He was the winner of 2019-2020 HKSAR University Grants Council Teaching Award (Team Award). He was also the winner of National Teaching Award 2022 – Higher Education (Undergraduate) – Tier-Two Award – Team Award of PRC. He won The Education University of Hong Kong President’s Awards for Outstanding Performance in Knowledge Transfer (Team Award) in 2020 and Outstanding Performance in Administration (Team Award) in 2021. Professor Kong is leading an international project on promoting computational thinking development and coding education for eight years starting from 2016. He is also leading a three-phase project on Artificial Intelligence Literacy and Applied Artificial Intelligence Programs for secondary students, university students, teachers, and administrative staff in Hong Kong from 2020 to 2025.

Title: Use Generative AI Tools for Developing Self-Regulated Learning: Opportunities and Challenges

Abstract: It is well-known that generative artificial intelligence (AI) tools are resourceful and can therefore serve as great tools for offering affordances to students. Self-regulated learning (SRL) skills are future-ready abilities that are needed for every student in the fourth industrial revolution era, when everything becomes digitalized and AI-enabled. Developing SRL skills using generative AI tools has become a popular research issue. In this speech, I shall use examples to illustrate how to use generative AI tools to support domain knowledge learning, such as in English language, Chinese language, and mathematics. A human-centered framework for SRL development is outlined for researchers and practitioners to design experimental studies that collect empirical evidence to substantiate hypotheses for advancing pedagogical design for SRL. Finally, suggestions are made on how to avoid over-reliance on generative AI tools for students' self-regulated learning.



KEYNOTE SPEAKER 5 (ONLINE)

Prof. Minhong (Maggie) WANG

The University of Hong Kong, China

“Rethinking How People Learn for Effective Learning Design and Analysis”



Speech time: 14:10-14:50, Friday, September 13, 2024 (UTC+8)
 Venue: Nanhu Lecture Hall (1st Floor)
 Online Room A: 880 0215 3256 (Password: Wuhan)

Dr. Minhong (Maggie) Wang is Professor and Director of the Laboratory for Knowledge Management & E-Learning in the Faculty of Education, The University of Hong Kong (HKU, ranked World Number One for Education and Educational Research by U.S. News & World Report in the 2022-2023 Best Global Universities subject rankings). She is also Eastern Scholar Chair Professor at East China Normal University and Visiting Research Professor at the Advanced Innovation Center for Future Education of Beijing Normal University. She is the Editor-in-Chief of Knowledge Management & E-Learning (indexed in Scopus & ESCI). Her research focus is on learning technologies for cognitive development, creative thinking and complex problem solving, knowledge management and visualization, and artificial intelligence applications. She has published more than 200 items including one monograph and 117 journal articles (73 in SSCI/SCI indexed journals; 48 in Q1 and 18 in Q2 journals) among others. She is recognized as ESI Top 1% Scholar in (a) Social Sciences, General, and (b) Economics & Business.

Title: Rethinking How People Learn for Effective Learning Design and Analysis

Abstract: How people learn has long been discussed, revealed by many learning theories, explored in extensive practices, and analyzed in numerous studies. This talk will present a high-level view of human learning from four fundamental perspectives, that is, learning by interaction with content (C), learning by interaction with other people (O), learning by interaction with self (S), and learning by interaction with tasks or practices (T), so-called COST model. Based on this model, this talk will summarize how technology supports human learning, how to design effective learning to address learners’ needs and challenges, and how to make meaningful analysis of how people learn innovatively with the support of technology.

INVITED SPEAKER 1

Prof. Jianwen SUN

Central China Normal University, China

“AI4LS: A New Research Paradigm for Learning Sciences”



Speech time: 09:00-09:20, Saturday, September 14, 2024 (UTC+8)

Venue: Room 201 (2nd Floor)

Jianwen Sun is currently a Professor and Ph.D. Supervisor with the National Engineering Research Center of Educational Big Data and Faculty of Artificial Intelligence in Education, Central China Normal University. His education qualifications include Bachelor and PhD degrees in educational technology, both from the Central China Normal University. He is currently serving as the Deputy Secretary General of Research Association of Learning Sciences, CAHE (China Association of Higher Education), and the Deputy Secretary General of Technical Committee on Intelligent Education, CAA (Chinese Association of Automation). His research interests include educational data mining, computational learning sciences, and intelligent tutoring systems. He has authored or coauthored more than 30 papers in refereed journals and conference proceedings including Nature Computational Science, ACM TOIS, IEEE TNNLS/TEVC/TII/TLT/TCE, AAAI, WWW, and ACM MM. He is a member of the Association for Computing Machinery (ACM), Institute of Electrical and Electronics Engineers (IEEE), Chinese Association of Automation (CAA), and China Computer Federation (CCF).

Title: AI4LS: A New Research Paradigm for Learning Sciences

Abstract: The rapid development of the new generation of artificial intelligence technology has accelerated the transformation of scientific research paradigms, forming the fifth paradigm - AI4S (AI for Science). In response to the development trend of the intelligent era, it is necessary to accelerate the cross integration between learning sciences and artificial intelligence, develop a new research paradigm of AI4LS (AI for Learning Sciences), which can help break through the traditional academic boundaries of learning sciences and promote innovation in its theory, methods, and applications. Inspired by this concept, we propose a learning laws mining paradigm based on deep symbolic regression, which automatically discovers the symbolic laws governing skill acquisition from naturally occurring data. We have also established a learning technology innovation paradigm driven by both knowledge and data, forming a feedback loop where pattern discovery and model optimization mutually enhance each other. In addition, we have developed an intelligent teaching platform that integrates large and small models, and carried out personalized learning practices in multiple universities, supporting innovative explorations in the digital transformation and intelligent upgrading of education.



INVITED SPEAKER 2

Assoc. Prof. Hang HU

Southwest University, China

“From Human-machine Integration to Deeper Learning: Paradigm, Methodology and Value Implications”



Speech time: 09:00-09:20, Saturday, September 14, 2024 (UTC+8)

Room: Room 8001 (8th Floor)

Hu Hang, Doctor of Education, doctoral supervisor, Director of Teaching Excellence Center of Teacher Education College of Southwest University, Director of Digital Humanities and Venue Education Research Lab of Sino-Helian-Civilization Mutual Learning Center (postdoctoral supervisor), convener of National (Science and Technology) Subject Education Alliance, expert of Examination Center of Ministry of Education, Vice chairman of Experimental Teaching Branch of China Educational Equipment Industry Association, Deputy Director of the Academic Committee of the Primary and Secondary School Information Technology Education Special Committee of the Chinese Society of Education, Chongqing basic education quality monitoring expert, Chongqing social science popularization expert, a number of SCI, SSCI and CSSCI journals external review expert. In recent years, focusing on "deep learning, science and technology and intelligent education", it has published 4 monographs in Chinese and English and more than 60 academic papers. It has been deeply engaged in primary and secondary schools, kindergartens and vocational colleges all year long. Its research direction focuses on computing pedagogy, deep learning and educational application, science and technology education, and digital humanities of mutual learning among civilizations.

Title: From Human-machine Integration to Deeper Learning: Paradigm, Methodology and Value Implications

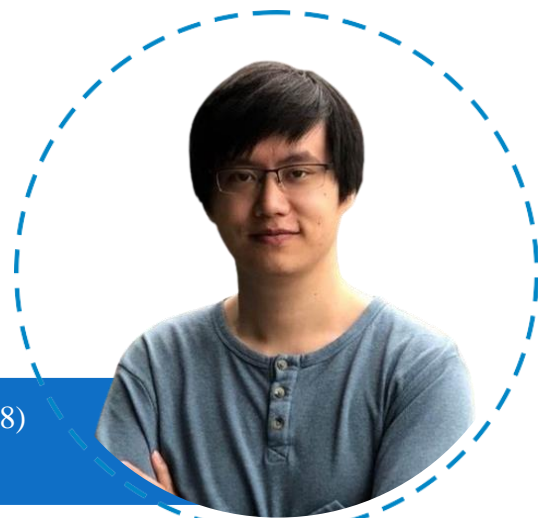
Abstract: Machine deep learning constantly breaks through its own functional boundaries in repeated collisions and interactions with humans and continues to promote human deeper learning with human-machine integration. This research takes human deeper learning as the core and based on human-machine consistency from the interdisciplinary perspective, demonstrates the human-machine integration of "learner-centered design" from four aspects of connotation, implementation, mechanism, and assessment to extract the deeper learning paradigm. Therefore, it focuses on the method of human-machine integration to deeper learning and expounds its specific path with key words such as real situations, interdisciplinary, intelligentization, big idea, personalized cooperative learning, thinking and innovation, so as to build a new education ecology of human-machine integration and improve learners' real-problem-solving ability.

INVITED SPEAKER 3

Asst. Prof. Yizhou FAN

Peking University, China

“Learning and Regulating with ChatGPT: What Experimental Study Tells Us”



Speech time: 09:00-09:20, Saturday, September 14, 2024 (UTC+8)

Room: Room 8006 (8th Floor)

Yizhou Fan is an Assistant Professor in the Graduate School of Education at Peking University and an Adjunct Research Fellow at the Centre for Learning Analytics at Monash University. He identifies as a learning analyst employing computational techniques to enhance the understanding of self-regulated learning and to develop next generation learning environments for envisioning future education. In 2023, he received the Emerging Scholars Award and Early Career Research Grant from SoLAR. His recent research focuses on human-AI collaboration and the scaffolding of hybrid intelligence.

Title: Learning and Regulating with ChatGPT: What Experimental Study Tells Us

Abstract: The advances in artificial intelligence (AI) have profoundly transformed and will continue to influence the workforce by automating numerous tasks across various sectors. Consequently, it is vital for students and professionals to develop the capability to “learn and work with AI,” a focus that has increasingly become central in educational paradigms. As the practice and research of AI-assisted learning evolve, a significant advancement in learning analytics is the capacity to measure and understand how learning occurs with AI scaffolding. Nevertheless, empirical research in this area remains nascent, calling for further exploration. In this talk, Dr. Fan will present his recent study, which centers on understanding learners' interactions and regulation using ChatGPT. He and his colleagues conducted an experimental study involving 117 learners, who were randomly assigned to one of four groups, each provided with different forms of learning support (e.g., ChatGPT and human experts). His presentation will share insights into how these groups compare in terms of self-regulated learning processes, help-seeking behaviors, self-assessment skills, and overall learning performance. Additionally, Dr. Fan will discuss the promises and challenges of using generative AI in education that identified in his empirical study.



INVITED SPEAKER 4

Prof. Xuesong ZHAI

Zhejiang University, China

“Integrating Generative AI and Reverse Engineering Pedagogy in Promoting AI-human Interaction: An empirical study from K-12 Programming Education”



Speech time: 09:00-09:20, Saturday, September 14, 2024 (UTC+8)
Room: Room 10001 (10th Floor)

Xuesong Zhai is a senior researcher and Doctoral Supervisor in sector of Educational Technology, College of Education, Zhejiang University. Graduating from University of Science and Technology China (USTC), he obtained master degree in international relations and Ph.D in management fielding on higher education management. Since his graduation, he has pursuit of a postdoctoral researcher at the School of Educational Technology, Beijing Normal University and Department of Learning Technology at the University of North Texas in the United States. Dr. Zhai obtained many distinguished awards and grants, such the National Postdoctoral Fund, Anhui Provincial Excellent Young Talents Fund, Humanities and Social Science Fund of the Ministry of Education. He has participated in the Double Brain Program at Zhejiang University and the National Social Science Fund. Dr. Zhai's research interests include but not limited to educational information systems, educational technology and equipment, intelligent learning environment construction, affection computing, etc. In recent years, he has published 17 SSCI and SCI indexed papers as the first or corresponding author, 3 EI indexed papers, and 13 CSSCI indexed papers as the first author. He obtained 7 software Patent as well. He is currently employed as the Area editor for the EAI Transaction on E-Learning. Guest Editor for IJERPH (SSCI), Current Bioinformatics (SCI), Sustainability (SSCI) and Frontiers in psychology (SSCI). Besides, he is contributing as a reviewer for many index journals, such as Interactive Learning Environments, Computer Assisted Language Learning, Education Technology Research & Development (SSCI), Educational Technology & Society (SSCI).

Title: Integrating Generative AI and Reverse Engineering Pedagogy in Promoting AI-human Interaction: An empirical study from K-12 Programming Education

Abstract: The development of Generative Artificial Intelligence (GAI) has unlocked a portion of the learners' cognitive and transfer abilities. AI-human collaboration based on GAI will become an indispensable high-level skill in human learning and life. However, there is a lack of empirical research on exploring teaching models of human-AI interaction that are compatible with GAI, leading to an unclear path for learners to autonomously solve complex problems using GAI. This chapter proposed to introduce reverse engineering pedagogy with GAI to facilitate K-12 programming class. Incorporating Latent Dirichlet Allocation (LDA) for topic extraction, this study identified five distinct types of collaborative behaviors. Survey data from the participants indicate high levels of perceived contingency and

collaborative perception, alongside a marked enthusiasm for continued learning within this paradigm. Based on these findings, the chapter proposes several strategies for enhancing human-computer collaboration, including the refinement of reverse engineering cognition to streamline the resolution of complex problems, the development of multi-agent systems to augment efficiency in scenarios involving multiple human and agent interactions, and the reconfiguration of labor dynamics to foster innovative forms of intelligent productivity.



INVITED SPEAKER 5 (ONLINE)

Senior Lecturer Dr. Qingqing XING

The Hong Kong University of Science and Technology (Guangzhou),
China

“Investigating the Impact of Deliberate Metaphor in
Introduction through Eye Tracking Analysis”



Speech time: 09:00-09:20, Saturday, September 14, 2024 (UTC+8)
Room: Room 10127 (10th Floor)
Online Room A: 880 0215 3256 Password: Wuhan

Dr. Qingqing Xing is a Senior Lecturer at the University of Education Sciences, the Hong Kong University of Science and Technology (Guangzhou). She holds a PhD in Education from Peking University and has more than 23 years of teaching experience in science and technology-oriented universities. She is committed to promoting research ideas and interdisciplinary collaboration, including as a Project Manager in the Bureau of International Cooperation at the National Science Foundation of China and as the Associate Director of the International Office at the Beijing Institute of Technology. These experiences have given her insights into promoting research-oriented education internationally, especially for the world's first interdisciplinary university as HKUST(GZ). As an education practitioner, Dr. Xing actively explores the pedagogy of Project-Based Learning. In addition to her efforts to teach Interdisciplinary Design Thinking and Effective Academic Communication, she collaborates with interdisciplinary research teams in computational media and arts, metaverse research, and health care. As part of this collaboration, it uses educational technologies and artificial intelligence generated content tools to help students present their research ideas in engaging ways to facilitate their “niche” exploration process, with a focus on developing Self-Organized Maker Education. Within just one year of its inception, HKUST(GZ) research students have actively contributed insights and examples of project-based learning in higher education.

Title: Investigating the Impact of Deliberate Metaphor in Introduction through Eye Tracking Analysis

Abstract: This study examines the relationship between writing introductions, visual summaries, and the deliberate use of metaphors in the context of English as a Foreign Language (EFL) learners, focusing on how these elements can improve the effectiveness of academic communication and scholarly dissemination. While previous research has extensively analyzed academic writing from various angles—such as organization, lexicon, cohesion, rhetorical features, and the role of metaphors—the combined effects of introductions, visual summaries, and the deliberate use of metaphors on cognitive processing have been studied only to a limited extent. Using eye-tracking technology, the study aims to provide empirical evidence of the interactive effects of written introductions, visual summaries with deliberate metaphors on EFL learners. The research attempts to answer the most important questions: To what extent does the

rhetorical structuring of slides, including deliberate metaphors, influence reading behavior in writing introductions? How does the combination of visual and textual information and metaphorical language influence readers' comprehension and learning outcomes? By answering these questions, the study aims to bridge the gap between metaphor use and cognitive processing in academic texts and scholarly communication, providing valuable insights for English for Academic Purposes (EAP) instruction and the broader field of scholarly communication.



INVITED SPEAKER 6

Assoc. Prof. Vincent CS Lee

Monash University, Australia

“Active Learning in Computer Networks Course: Challenges & Opportunities for Personalised Education”



Speech time: 09:20-09:40, Saturday, September 14, 2024 (UTC+8)

Venue: Room 201 (2nd Floor)

Vincent CS Lee is currently an Associate Professor with the Faculty of IT, Monash University and a Senior Member of IEEE. His education qualifications include Bachelor and Master degrees in EEE, both from the National University of Singapore; MBA from Henley Management College in Oxford, England; BBus (Hons 1st class in Economics & Finance) and MBus (Accountancy), both from RMIT University in Melbourne; and PhD degree from University of Newcastle, NSW in Australia. He is an active researcher and educator (with Graduate Certificate in Higher Education Teaching from Monash University) with 30 years as academicians for four universities including Monash University and Swinburne University, both in Melbourne, joint Monash-South East University in Suzhou, Nanyang Technological University in Singapore. He was visiting Professors with School of Economics and Management, and School of Computing and Technology, Tsinghua University in Beijing. Lee’s research and higher education teaching (developed and delivered undergraduate and postgraduate courses) span multi-disciplinary domains across IT, Digital Health, Signal and Information Processing, Financial Engineering (FinTech), Educational Data Mining (with learner-centric education technology tools), Explainable AI, Deep ML, Computer Vision for dynamic objects tracking, and Multi-agent Autonomous Systems. Lee has published 200+ papers in IEEE/ACM SCImago ranked Q1 High Impact factors of Journals, and in CORE A/A* Peer-review International Conferences proceedings (AAAI, IJCAI, ICDM, ICWS, ICDE, PAKDD, CIKM, WWW, IEEE IC Signal Processing, IC-EDM). Lee also served as invited keynote speakers for a number of these IEEE and ACM Flagship conferences and General Chair and Co-chair of steering committees and technical programs.

Title: Active Learning in Computer Networks Course: Challenges & Opportunities for Personalised Education

Abstract: Active learning is a form of teaching and learning in precision education, which is an approach to teaching and learning aiming to personalise education for each student. One of the major objectives of precision education via active learning is to improve prediction of educational outcome. This talk focuses on key challenges for active learning student’s education for cohort of computer networks enrolled in a higher education institution in Melbourne. I will base on the recent experience in conducting the “problem-solving” based assessment using progressive learning experience

and learner performance evaluation assessment criteria. I will articulate the issues when considering the application of artificial intelligence (AI), machine learning, and learning analytics to further improve and develop teaching quality and also learning performance. The scope of my talk covers Knowledge Tracing as a fundamental research issue in personalised education, aiming to monitor changes in students' mastery of each knowledge point based on their online answer data.



INVITED SPEAKER 7

Prof. Yu XIONG

Chongqing University of Posts and Telecommunications, China

“AI + Data Boosting Generative Education Evaluation of Human-machine Collaboration”



Speech time: 09:20-09:40, Saturday, September 14, 2024 (UTC+8)

Venue: Room 8001 (8th Floor)

Yu Xiong is currently a Professor and Ph.D. Supervisor with Chongqing University of Posts and Telecommunications (CQUPT), and the executive director of Chongqing Municipal Research Center for Educational Big Data. He also serves as the Vice Chairman of Technical Committee on Intelligent Education of Chinese Association of Automation (CAA), the Secretary General of Chongqing Higher Education Steering Committee for Teaching Informatization and Teaching Innovation, and the Senior Member of China Computer Federation (CCF). His research interests include artificial intelligence and smart education, pattern recognition and machine learning, and educational data mining. He has taken more than 20 research projects of provincial and ministerial level, including the National Natural Science Foundation of China, Chongqing Special Key Project for Technology Innovation and Application Development, Chongqing Key Research Project for Higher Education Teaching Reform, etc. He has published more than 60 academic papers in SCI, EI, CSSCI journals and conference proceedings. Besides, he was awarded 3 the first prize of Provincial and Ministerial-Level Science and Technology Awards and 1 the first prize of Provincial and Ministerial-Level Teaching Achievement Award.

Title: AI + Data Boosting Generative Education Evaluation of Human-machine Collaboration

Abstract: With the support of the “business and data” dual-wheel-driven educational big data system, it is oriented to collect multi-source heterogeneous campus data at different granularities. This system not only conducts continuous data governance driven by business needs, but also implements scientific decision-making and actions for educational businesses driven by data applications, forming an “all-sample, all-process, all-dimensional” educational big data framework. Based on this, the human-machine collaborative hybrid-augmented intelligence technology is used to explore generative evaluation for students, teachers and majors. For student evaluation, we accurately create comprehensive learner profiles and use academic data to automatically generate descriptive evaluations, providing decision support for teachers to conduct personalized assessments. For teacher evaluation, the human-machine collaborative hybrid of knowledge graph and weight iterative optimization is constructed to enhance the intelligent teaching engagement evaluation model, realizing the intelligent generation of explainable teachers' teaching quality evaluation. For major evaluation, we propose a “1 theory + 1 system + 1 platform” paradigm. Under the support of the

human-machine collaborative major monitoring theory, we established an index system for major monitoring and evaluation in universities, developed a major monitoring and evaluation information system, and carried out application demonstrations in universities in Chongqing. Ultimately, this leads to the formation of generative educational process evaluation, intelligent evaluation, and comprehensive evaluation, realizing deep value mining in education assessment.



INVITED SPEAKER 8

Assoc. Prof. Yang CHEN

Harbin Institute of Technology (Shenzhen), China

“Understanding Chinese EFL Learners’ Acceptance of Gamified Vocabulary Learning Apps”



Speech time: 09:20-09:40, Saturday, September 14, 2024 (UTC+8)

Venue: Room 8006 (8th Floor)

Yang Chen is currently an associate professor in the college of humanity and social sciences of Harbin Institute of Technology (Shenzhen), China. She received her bachelor’s degree in mass communication from Communication University of China, master’s degree in digital media from Harbin Institute of Technology, China, and doctoral degree in computer graphics technology with a concentration in human-computer interaction from Purdue University, USA. Her research interests include social media, user experience, environmental communication, and educational gamification. As principal investigator, she has undertaken funded research projects on gamified pro-environmental communication, gamification in second language acquisition, and big data and education resources, which were funded by national/provincial social science foundations. She has publications in international journals including International Journal of Human-Computer Interaction, sustainability, and International Journal of Language, Literature and Linguistics. She also published in international conferences such as ICBDE, ICESS, ICIET, WCEEE, and ELEARN. In addition, she serves as a reviewer for several prestigious international journals (such as Information, Communication & Society, Information Processing and Management, Social Media and Society, Behaviour & information Technology, and Interacting with Computers) and international conferences in the fields of social media, technology, and education.

Title: Understanding Chinese EFL Learners’ Acceptance of Gamified Vocabulary Learning Apps

Abstract: Implementing the idea of gamification in mobile-assisted language learning has recently been gaining increasing attention from academia and industry. I will introduce three studies about this topic. The first one is about investigating students’ perception, motivation to use, and acceptance of popular gamified English vocabulary learning apps. The second is a longitudinal study on students’ foreign language anxiety and cognitive load in gamified classes of higher education. The third is understanding Chinese EFL learners’ acceptance of gamified vocabulary learning Apps: An integration of self-determination theory and technology acceptance model.

INVITED SPEAKER 9

Asst. Prof. Taotao LONG

Central China Normal University, China

“Promoting Pre-service Science Teachers' Design of Inquiry-based Instruction via Knowledge Integration (KI) based Collaborative Learning Environment: a network analysis approach”



Speech time: 09:20-09:40, Saturday, September 14, 2024 (UTC+8)

Venue: Room 10001 (10th Floor)

Taotao Long is an assistant professor in the Department of Science Education at the Faculty of Artificial Intelligence in Education in Central Normal University. She has got the Ph.D in educational technology at the University of Tennessee, USA. Her research interests include professional development for science teachers, integrating technology in the classroom, and teaching of thinking. She has worked as the principal investigator of a variety of projects, including the NSFC (National Science Foundation in China) project. In the past five years, she has published more than 10 papers on the SSCI indexed journals as the first or corresponding author.

Title: Promoting Pre-service Science Teachers' Design of Inquiry-based Instruction via Knowledge Integration (KI) based Collaborative Learning Environment: a network analysis approach

Abstract: Inquiry-based instruction has played an important role in science education, and been recognized as a critical approach to improve students' scientific learning effectiveness. However, current research revealed that it is a challenge for teacher education programs to improve pre-service science teachers' inquiry-based instructional activity design competency. Due to the dynamic and complicated process of the instructional design competency improvement, there is a strong need for new methods that could trace this process. Considering the Knowledge Integration (KI) theory has been demonstrated to be able to help science teachers design their inquiry-based instructional activities in a large amount of existing research, in this study, a KI-based collaborative learning environment was designed to support 19 pre-service science teachers' inquiry-based instructional activity design. Epistemic network analysis (ENA) was applied to trace the development process of their inquiry-based instructional activity design e behavior patterns. Data analysis revealed that the pre-service science teachers demonstrated gradually more active in “guiding students to design exploratory activities” and “guiding students to communicate and cooperate” in their instructional designs during the process of using the KI-based collaborative learning environment. Through identifying and comparing the design patterns of the high-performing and low-performing groups, the results showed that the low-performing groups demonstrated more active on “posing inquiry questions” and “guiding students to formulate scientific explanation,” while the high performing groups demonstrated more active in “guiding students to design exploratory activities” and “guiding students to communicate and cooperate.” Furthermore, the semi-structured interview results demonstrated that the KI-based



collaborative learning environment not only provided the pre-service science teachers a convenient way on online collaboration, but also helped them form more normative and integ.

INVITED SPEAKER 10 (ONLINE)

Assoc. Prof. Anuchai Theeraroungchaisri

Chulalongkorn University, Thailand

“Enhancing Pharmacy Education through AI-Assisted Role-Play: A Case Study Using ChatGPT in Community Pharmacy Course”



Speech time: 09:20-09:40, Saturday, September 14, 2024 (UTC+8)

Venue: Room 10127 (10th Floor)

Online Room A: 880 0215 3256 (Password: Wuhan)

Dr. Anuchai Theeraroungchaisri is an Associate Professor in the Department of Social and Administrative Pharmacy at the Faculty of Pharmaceutical Sciences, Chulalongkorn University. Additionally, he serves as the Deputy Director of Thailand Cyber University at the Office of Higher Education Commission, Ministry of Education. Moreover, he holds the position of Deputy Director at the College of Pharmacy Administration of Thailand. He got a bachelor's degree in Pharmaceutical Sciences and pursued further education at Chulalongkorn University, where he earned a master's degree in Computer Sciences and a Ph.D. in Educational and Communication Technology. With his role as the deputy director of the Thailand Cyber University Project, he has overseen several significant initiatives, such as Thai MOOC (Thailand Massive Open Online Courses), The Higher Education Credit Bank System, TCU-Globe (Interoperability among the learning object repository network, enabling search through a single query), e-Learning Professional Development (the pioneering fully online training certificate program). In 2022, he was recognized as the "Most Valuable Person in Educational Technology 2022" by the Thai Association of Education and Communication Technology, as announced during the 35th Annual Conference of Thailand Educational and Communication Technology. Furthermore, in 2019 he received the "Outstanding Pharmacist in Pharmacy Education 2019" award from The Pharmacy Council of Thailand. His research interests encompass a wide range of topics, including MOOC Policy, Academic credit bank and credit transfer, Learning Design, Online Pedagogy, e-Portfolio, Technology-Enhanced Learning, Learning analytics, and Health Informatics.

Title: Enhancing Pharmacy Education through AI-Assisted Role-Play: A Case Study Using ChatGPT in Community Pharmacy Course

Abstract: This presentation explores an innovative approach to pharmacy education using artificial intelligence, specifically ChatGPT, in a Community Pharmacy course at Chulalongkorn University. The study aimed to enhance student engagement and learning outcomes through AI-assisted role-play scenarios.

The research implemented ChatGPT in two primary roles: as a virtual pharmacy manager for student interactions and as an expert evaluator of student performance. This dual application allowed for realistic simulation of pharmacy situations and provided immediate, objective feedback on student questions and recommendations.



Key findings include increased student engagement, improved critical thinking skills, and enhanced ability to apply theoretical knowledge to practical scenarios. The AI's capacity to generate consistent, realistic scenarios and provide immediate feedback proved particularly valuable.

Challenges encountered included technical limitations in managing multiple student interactions simultaneously and occasional inconsistencies in AI-generated information. These were addressed through innovative solutions such as shared access and real-time error correction.

This presentation will discuss the methodology, outcomes, and lessons learned from this educational experiment. It will also explore the potential for wider application of AI in pharmacy education and other professional training contexts, considering both the benefits and limitations of this technology.

The findings of this study contribute to the growing body of knowledge on AI applications in higher education, particularly in professional fields requiring practical skills development.

The technique, results, and lessons discovered during this educational experiment will all be covered in this presentation. While taking into account both the advantages and disadvantages of this technology, it will also investigate the possibilities for a broader use of AI in pharmacy school and other professional training settings. The results of this study add to the expanding corpus of research on artificial intelligence applications in higher education, especially in professions that need the development of practical skills.

INVITED SPEAKER 11 (Online)

Assoc. Prof. Xu FANG

Nantong University, China

“Research on Educational Technology: Combination of Structural Equation and Qualitative Comparative Analysis of Fuzzy Sets”



Speech time: 09:40-10:00, Saturday, September 14, 2024 (UTC+8)

Venue: Room 10001 (10th Floor)

Online Room B: 827 6075 5186 Password: Wuhan

Associate Professor of Educational Technology, College of Educational Science, Nantong University, Master Supervisor, Ph.D., is engaged in the research of digitalisation in education. He has published more than 60 academic papers in domestic and international journals, including one SSCI source journal and 15 CSSCI source journals as the first author, of which two were reprinted in the Renmin University of China Newspaper and Periodical Reprints. He has published 6 academic monographs in Science Press, People's Publishing House, China Social Science Publishing House and Jilin University Press. He has presided over more than 20 projects, including the General Project of the National Social Science Foundation, the Key Project of the National Education Examination Scientific Research Planning Project, the Online Education Fund of the Ministry of Education, the Social Science Foundation of Jiangsu Province, the Social Science Foundation of Henan Province, the Key Research and Development and Promotion Programme of Henan Province (Soft Science Project), the Key Scientific Research Project of Henan Province Colleges and Universities, the Social Science Foundation of Gansu Province, the Key Project of the Chinese Society of Higher Education for Education Informatisation, and the National Scientific Research Project of Foreign Languages, and so on. He has won more than ten awards, including the Third Prize of Philosophy and Social Science Achievements of Jiangsu Universities, the First Prize of Excellent Scientific Research Achievement Award of Education Science Planning of Henan Province, the Second Prize of Excellent Scientific Research Achievements of Gansu Universities, the Second Prize of Philosophy and Social Science of Nantong City, and other various awards. He was awarded the 2020 Young Backbone Teachers of Universities in Henan Province. He is now an expert in appraising the achievements of the National Social Science Foundation.

Title: Research on Educational Technology: Combination of Structural Equation and Qualitative Comparative Analysis of Fuzzy Sets

Abstract: At present, structural equation and qualitative comparative analysis of fuzzy sets are both methods used in social science research. But the combination of the two has not been paid attention to in research of educational technology. Both of them study the influencing factors, that is, the relationship between variables. Both of them have to go through theoretical model construction, empirical and quantitative research. At the same time, they are different, one



is the relationship between two variables, and the other is the effect of variable combination. These two approaches can be used together to deepen existing research. There are also combinations, which are in the areas such as management, but not many in the fields of education. The combination of the two can confirm and complement each other. The combination of the two has applicability in practical problem solving in educational technology. Educational technology is a cross-discipline, itself involves a number of disciplines, such as computer science, pedagogy, management, economics, sociology, etc. The reality of the problem of educational technology often involves a number of factors. Qualitative comparative analysis of fuzzy sets is applicable in solving educational technology problems. At the same time, structural equation is applicable to solve the relationship between single variables. Education application of combinations of the two ways has its applicability, including the two complement each other, the results of qualitative analysis of fuzzy sets can confirm the results of structural equations and the qualitative analysis of fuzzy sets can also draw the conclusion that the structural formula can't be obtained. A case study on human-computer co-teaching is given. The combination of these two methods has a certain prospect for the future research on the development of educational technology.

INVITED SPEAKER 12 (ONLINE)

Senior Research Fellow Dr. Feifei HAN

Australian Catholic University, Australia

**“Generative Artificial Intelligence (GenAI) in Writing
Research: A State-of-the-Art Review”**



Speech time: 09:40-10:00, Saturday, September 14, 2024 (UTC+8)

Venue: Room 10127 (10th Floor)

Online Room A: 880 0215 3256 (Password: Wuhan)

Dr. Feifei Han's is a Senior Research Fellow of the STEM in Education Research Program at the Institute for Learning Sciences & Teacher Education, Australian Catholic University. Her research lies in educational technology, learning analytics, and learning and teaching in higher education. She has over 120 peer-reviewed publications, including a single-authored book, 29 book chapters, 71 journal articles, and 22 conference proceedings. Attracting over 2,400 citations, her publications appear in high-quality educational technology journals, such as *Computers & Education*, *The Internet & Higher Education*, *International Journal of Educational Technology in Higher Education*, *Journal of Computing in Higher Education*, and *Journal of Computer Assisted Learning*. She currently serves as a co-lead editor of the *Australasian Journal of Educational Technology*. In a recent bibliometric analysis of studies in blended learning and teaching between 2013 and 2022, she is amongst the top four most prolific researchers and in the third place of the authors with the strongest citations in the field.

Title: Generative Artificial Intelligence (GenAI) in Writing Research: A State-of-the-Art Review

Abstract: Writing is an essential life skill, while failure to learn to write is associated with poor physical and mental health, participation in crime, welfare dependency and reduced longevity (Cree et al., 2022). Despite its importance, students worldwide are struggling to develop writing skills appropriate to their expected grade level. The emergence of GenAI (e.g., ChatGPT and other similar AI based technologies) has generated significant interest and intense debate in different aspects of education, in particular, language and literacy education. It poses both opportunities and challenges for writing instructions across levels, from writing instructions in schools to professional and technical writing. This present will provide a state-of-the-art-review of the GenAI in writing research.



CHINESE FORUM 中文论坛

“AI4Science 视域下的教育科学研究范式创新”

Time: 10:30-12:00 | Saturday, September 14, 2024 | (UTC/GMT+8)

Venue: Nanhu Lecture Hall (1st Floor) 一楼南湖学术报告厅

Host: Assoc. Prof. Qing LI, Central China Normal University, China

主持人：李卿副教授，华中师范大学，中国

This forum will focus on the application of Artificial Intelligence (AI) in the fields of science and education, exploring how AI technology can drive innovation in educational science research paradigms. The forum on "Educational Science Research Paradigm Innovation in the Context of AI4Science" aims to bring together renowned scholars and researchers in China to share and discuss the latest research outcomes, cutting-edge technologies, and practical experiences.

本次论坛将聚焦于人工智能（AI）在科学与教育领域的应用，探讨 AI 技术如何推动教育科学研究范式的创新。AI4Science 视域下的教育科学研究范式创新论坛旨在汇聚国内知名学者和研究人员，分享和讨论最新的研究成果、前沿技术和实践经验。



胡祥恩教授，香港理工大学，中国

香港理工大学高等教育研究与发展院院长

胡祥恩教授，香港理工大学学习科学与技术讲座教授、香港理工大学高等教育研究与发展院院长。胡教授于 1982 年和 1985 年分别获得华中科技大学的学士和硕士学位，随后前往美国深造，于 1991 年获得社会科学硕士学位，并于 1993 年获得认知心理学博士学位。在成为香港理工大学学习科学与技术系的讲座教授之前，胡教授曾在孟菲斯大学任教 30 年，担任心理学、电气与计算机工程、计算机科学系教授，并在智能系统研究所任高级研究员。他还曾担任华中师范大学心理学院院长和教授，并领导孟菲斯大学的高级分布式学习实验室。胡教授的研究重点包括开发用于人类认知的数学模型、知识表示的人工智能、计算机化辅导系统和分布式学习技术。胡教授的研究工作得到了许多知名机构的资助，作为首席研究员获得了超过 1000 万美元的资助，并作为合作研究员参与了总额超过 3000 万美元的项目。



江绍祥教授，香港教育大学，中国

人工智能及数码能力教育中心总监

江绍祥教授现为香港教育大学数学与资讯科技学系的研究讲座教授，并担任人工智能及数码能力教育中心总监。江教授目前担任国际期刊《Research and Practice in Technology Enhanced Learning (RPTEL)》和《Journal of Computers in Education (JCE)》的主编。他曾于二零一四及二零一五年担任亚太区电脑教育应用学会 (APSCE) 主席，并自二零二三年七月至二零二五年六月担任全球华人计算机教育应用学会 (GCSCE) 主席。江教授在二零一九年至二零二二年皆入选美国史丹福大学教育领域的全球首 2% 科学家名单中。他曾获得二零一九至二零二零年香港特别行政区大学教育资助委员会杰出教学奖 (团队奖)。他在二零二零年亦获得了香港教育大学校长杰出知识转移表现奖 (团队奖)，以及二零二一年及二零二四年获得杰出行政服务表现奖 (团队奖)。江教授与他的团队更在二零二二年荣获国家教育部颁发高等教育 (本科) 国家级教学成果奖二等奖。目前，江教授为中国教育技术协会第七届委员会委员。江教授自二零一六年领导一项促进运算思维发展和编程教育的九年国际项目，并领导一个分三期、为期共五年 (二零二零年至二零二五年) 的人工智能普及认知教育项目，涵盖香港的高中生、教师、大学生和行政人员。江教授现时之研究兴趣包括人工智能普及认知、元宇宙普及认知、运算思维教育、STEM 教育、量子教育普及认知、数学教育、数码教室教学法、教师专业发展及数码科技教育政策。



王敏红教授，香港大学，中国

全球前 1% 的高被引学者

王敏红教授 (<https://web.edu.hku.hk/faculty-academics/magwang>) 是香港大学教育学院的终身正教授，获得香港大学研究成果奖，担任香港大学学术评审顾问委员会成员。她在香港大学领导着有一个国际影响力的

实验室—知识管理与数位学习实验室。王教授现在是浙江大学的光彪讲座教授，之前担任华东师范大学的东方学者讲座教授，以及北京师范大学未来教育高精尖创新中心的访问研究教授。王教授是教育技术领域的国际知名学者，曾在哈佛大学、麻省理工学院、剑桥大学担任访问学者，与国内外著名大学的研究团队保持深入合作。她长期从事跨领域研究，研究领域包括教育技术、学习科学、认知科学、知识管理、STEM教育、医学教育和人工智能。她的研究重点是利用技术、帮助学习者掌握隐性知识、以及复杂思维与推理过程，发展高阶思维能力，建立系统知识，培养复杂问题解决能力和创造力。她在“深层次学习”这一新兴研究领域处于国际领导地位，在国际顶尖学术会议（AERA2017，ICLS2016）主持专题研究讨论会，参与者包括多名国际顶尖学者。王教授目前担任《Knowledge Management & E-Learning》国际期刊的主编，以及多个国际著名期刊的编委，曾担任国际著名期刊的专刊客座主编。她已发表130篇期刊文章，其中78篇发表在SSCI/SCI索引期刊上，29篇发表在教育、心理、运筹与管理、计算机等学科的排名前10的期刊上。她在社会科学、经济与商业两大领域均被认定为ESI全球前1%的高被引学者。



刘均教授，西安交通大学，中国

国家“万人计划”科技创新领军人

刘均，教授，博士生导师，国家“万人计划”科技创新领军人才，斯坦福大学高级访问学者，IEEE高级会员。担任IEEE TNNLS、Information Fusion编委以及多个国际期刊的客座编辑。近年来，承担了国家重点研发计划项目、国家863课题、国家自然科学基金重点项目、国家自然科学基金原创项目。在IJCV、IEEE TPAMI、IEEE TKDE、ICDE、KDD等重要期刊与国际会议上发表论文百余篇，出版学术专著2部，获得ISSRE 2016、ICBK 2018等最佳论文奖。授权发明专利20项。获国家科技进步二等奖、国家教学成果二等奖，中国自动化学会科技进步特等奖以及多项省部级科技奖励。获陕西省优秀博士论文指导教师、王宽诚育人奖等奖励与荣誉。研究方向：自然语言处理、计算机视觉、智慧教育。

余亮教授，西南大学，中国

教育技术学院常务副院长，智慧教育研究院副院长



余亮，教授，博士生导师，教育技术学院常务副院长，智慧教育研究院副院长。担任中国教育发展战略学会未来教育专业委员会常务理事、重庆市教育委员会教育信息化专家库成员、重庆市教育学会智慧教学专业委员会学术委员会副主任、重庆市教育国际交流协会教育装备分会专家，同时担任多个 SSCI/CSSCI 期刊的评审专家。2004 年 9 月至 2005 年 7 月参与教育部“支援新疆汉语教师”项目，赴新疆维吾尔自治区伊宁市伊犁师范学校支教。2016 年 11 月至 2017 年 11 月美国犹他州立大学教学技术与学习科学系访问学者。主持国家、部省市等各级各类科研项目 20 余项，在《Australasian Journal of Educational Technology》《Interactive Learning Environments》《电化教育研究》《中国电化教育》《开放教育研究》等各类教育技术杂志发表学术论文 40 余篇。主讲的《现代远程教育》课程被认定为国家级一流本科课程（线上线下混合式）。



罗恒教授，华中师范大学，中国

教育技术系主任

罗恒，博士，华中师范大学人工智能教育学部教授，博士生导师，教育技术系主任。在美国雪城大学获得教学设计开发评估专业硕士和博士学位。曾任美国宾夕法尼亚州立大学数字化教育研究中心副研究员。近五年来以第一作者或通讯作者在国内高学术水平期刊发表研究论文 50 余篇，主持国家社科、国家自科和教育部科学基金项目多项，担任多个 SCI/SSCI 期刊的学术编辑和审稿专家。



BEST PAPER AWARD SELECTION

Evaluators	Prof. Yunwu WANG, Jiangsu Normal University, China
	Assoc. Prof. Vincent CS LEE, Monash University, Australia
	Lecturer Xiaoxuan SHEN, Central China Normal University, China
Time: 15:30-17:18, September 13, 2024, Friday Venue: Room N111 (1 st Floor) 阶梯教室 N111 (一楼)	
*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session. ****One best paper and one best student paper will be selected in this session.	
IT4074 15:30-15:42	An Analytical Study of the Patterns of Collective Knowledge Progress in CSCL Author/Authors: Yangyang Li, Peihong Wang, Xiuling He, Haojie Wang Presenter: Haojie Wang Central China Normal University, China
IT4001 15:42-15:54	The Impact of Cognitive Styles on Learners' Knowledge Understanding and Behavioral Patterns in Collaborative Concept Mapping Activities Author/Authors: Lingyun Kang, Botao Yang Presenter: Lingyun Kang Jiangxi Normal University, China
IT4006 15:54-16:06	Research on the Impact of Teaching Presence, Facilitating Conditions, and Academic Self-Efficacy on University Students' Online Engagement Author/Authors: Yitong Wei, Jinshuang Li, Ping Yin, Yinghui Shi, Yalin Yin Presenter: Jinshuang Li Jiangnan University, China
IT4201 16:06-16:18	The Impact of Teaching Assistant on College Students' Learning Performances in The Collaborative Inquiry-Based Robotics Learning Author/Authors: Kaili Lu, Jianrong Zhu, Feng Pang, Zhi Liu Presenter: Kaili Lu Nanjing University of Posts and Telecommunications, China
IT4157 16:18-16:30	Intelligent Analysis of Teacher Classroom Management Features Based on Video Stream Data Author/Authors: Chi Zhou, Wen Cai, Fenghua Shao, Mingyi Li Presenter: Wen Cai Central China Normal University, China
IT4159 16:30-16:42	An Exploration of Teachers' Digital Teaching Competence and Emotional Experience Regarding Data Driving Decision Making

	<p>Author/Authors: Yuxin Tang, Jialing Lv, Shuling Song</p> <p>Presenter: Yuxin Tang</p> <p>South China Normal University, China</p>
<p>IT4152</p> <p>16:42-16:54</p>	<p>Design and Development of Extended Reality Environment for 3-Dimensional Model Experience</p> <p>Author/Authors: Kah Yong Lee, Pei Cheng Ooi</p> <p>Presenter: Pei Cheng Ooi</p> <p>University of Nottingham Malaysia, Malaysia</p>
<p>IT4093</p> <p>16:54-17:06</p>	<p>Leveraging Prompt Engineering for Curriculum Design in Short-term Adult Training</p> <p>Author/Authors: Hang Wang, Ping Chen, Ailiya, Zhiqi Shen</p> <p>Presenter: Zhiqi Shen</p> <p>Nanyang Technological University, Singapore</p>
<p>IT4151</p> <p>17:06-17:18</p>	<p>Facial variation-aware Learning Transformer for Dynamic Facial Expression Recognition</p> <p>Author/Authors: Hai Liu, Zhibing Liu, Zhaoli Zhang, Qiyun Zhou, Rui Sun, Li Zhao</p> <p>Presenter: Zhibing Liu</p> <p>Central China Normal University, China</p>



Track 1

Gamification of Education and Game-Based Learning

Track Chair: Prof. Sadayoshi Mikami, Future University Hakodate, Japan	
Time: 15:30-17:30, September 13, 2024, Friday Venue: Room N109 (1 st Floor) 教室 N109 (一楼)	
*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session.	
IT4034 15:30-15:45	Enhancing Grammar Learning for ESL Young Learners through a Game-Based Response System Author/Authors: Bavani Moorthy, Si Na Kew, Zaidatun Tasir Presenter: Kew Si Na Universiti Teknologi Malaysia, Malaysia
IT4053 15:45-16:00	Exploring Paths for Construction of Gamified Teaching System in the Digital Age Author/Authors: Xiang-Lian Yu, Hao-Yuan Shen, Jing Zhang Presenter: Haoyuan Shen Jiangnan University, China
IT4058 16:00-16:15	Machine Learning-Based Analysis of Psychological Issues and Game Intervention for College Students Author/Authors: Tianhang Guo, Huali Yang, Jiaxuan Yan, Can Cao, Kang Xiong, Peiwen Chen Presenter: Tianhang Guo Wuhan Textile University, China
IT4114 16:15-16:30	Research on Primary School Students' Preferences for Gamified Learning Author/Authors: Xinfeng Li, Xinyi Peng, Haiyan Huang Presenter: Xinfeng Li Hangzhou Normal University, China
IT4124 16:30-16:45	Playing to Learn: Preliminary Investigation into the Use of Serious Games for Fostering Entrepreneurial Attributes in Large Classes for University Students Author/Authors: Hui Yan, Yeong, Wai Chuen, Poon, Ann Rosnida, Md Deni Presenter: Yeong Hui Yan Sunway University, Malaysia
IT4147 16:45-17:00	Game-based Assessment of Collaborative Skills Author/Authors: Fei Wang Presenter: Fei Wang Shanghai Publishing and Printing College, China

<p>IT4172 17:00-17:15</p>	<p>Gamification Elements in Virtual Simulation Integrated Learning: A Quantitative Evaluation With the 5E Instructional Model Author/Authors: Runxin Tao, Jun Tian, Liangting Zhang, Jiayingzhi Wan Presenter: Runxin Tao South China Normal University, China</p>
<p>IT4224 17:15-17:30</p>	<p>An Empirical Study of The Impact of Immersive Virtual Environments on College Students' Engagement in Learning Author/Authors: Yuxin Tang, Jinghua Qiu, Tingting Li, Huigang Qu, Xiuhan Li, Zhi Liu, Jiazhen Xu, Jia Chen Presenter: Yuxin Tang Central China Normal University, China</p>



Track 2

Extended Reality Technology in Education and Virtual Learning Environment

Track Chair: Prof. Tai WANG, Central China Normal University, China

Time: 15:30-17:30, September 13, 2024, Friday

Venue: Room N112 (1st Floor) 教室 N112 (一楼)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4086 15:30-15:45	Practical Study of Brain Cognitive Virtual Simulation Technology in Music Education Author/Authors: Yan Su, Yan Xiao, Jiaqi Ma, Dezhao Li Presenter: Dezhao Li Zhejiang International Studies University, China
IT4164 15:45-16:00	Understanding Social Presence in Extended Reality:A Bibliometric Analysis Based on Web of Science Database Using Bibliometrix RStudio and Citespace Author/Authors: Yue Zhang, Hasnah Binti Mohamed, Mohd Shafie Rosli, Qilong Yu Presenter: Zhang Yue Universiti Teknologi Malaysia, Malaysia & Hebei Institute of Mechanical and Electrical Technology, China
IT4153 16:00-16:15	Promoting Collective Reflection through Intelligent Multi-modal Analysis: A Case Study Author/Authors: Jimei Li, Bingxue Liu, Miao Xu, Taotao Long, Mengke Wang Presenter: Jimei Li Central China Normal University, China
IT4018 16:15-16:30	A Meta-analytic Study of The Impact of Virtual Reality Technology on Learning Outcomes Author/Authors: Guan Huang, Ying Kong Presenter: Ying Kong China West Normal University, China
IT4154 16:30-16:45	Current status of the application of metaverse in education: Visual analysis based on knowledge graphs Author/Authors: Xiaochun Zhou, Ruotian Jia, Xing Li, Minmin Tang, Liu Qi Presenter: Ruotian Jia Jiangnan University, China
IT4178 16:45-17:00	Meta-analysis of the Impact of Virtual Reality Assisted Teaching on Students' Attitudes Author/Authors: Jun Han, Chenxi Dang, Jing Liu

	<p>Presenter: Chenxi Dang Capital Normal University, China</p>
<p>IT4142 17:00-17:15</p>	<p>A Study on the Impact of Virtual Teaching Environment for Middle School Geography Based on the Theory of Embodied Cognition on Learning Effectiveness Author/Authors: Xiaochun Zhou, Liu Qi, Yu Luo, Xing Li, Minmin Tang, Ruotian Jia Presenter: Liu Qi Jiangnan University, China</p>
<p>IT4092 17:15-17:30</p>	<p>Enhancing Students' Digital Story Design: Investigating the Impact of an AI Chatbot on Performance and Intrinsic Motivation Author/Authors: Shurui Bai, Tse-Tin Chan Presenter: Shurui Bai The Education University of Hong Kong, China</p>



Track 3

Mobile Learning and Intelligent Teaching Platform

Track Chair: Assoc. Prof. Huang Yao, Central China Normal University, China	
Time: 15:30-17:30, September 13, 2024, Friday Venue: Room N113 (1 st Floor) 教室 N113 (一楼)	
*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session.	
IT4066 15:30-15:45	An Exploratory Study of Chinese College Students' Foreign Language Learning Boredom in Mobile-assisted Language Learning Author/Authors: Siyi Hu, Yang Chen Presenter: Siyi Hu Harbin Institute of Technology (Shenzhen), China
IT4075 15:45-16:00	Learner Cognitive State Recognition Based on EEG Signal Feature and Channel Selection Author/Authors: Chenxu Liu, Yue Li, Xuan Zhao, Xiuling He, Yingting Li, Chongyang Zhou Presenter: Chenxu Liu Central China Normal University, China
IT4109 16:00-16:15	Ideological and Political Education in the Mobile Internet Era: A Survey Author/Authors: Qing Liu, Zhongjian Tang, Simin Zhang Presenter: Qing Liu Chongqing Youth Vocational & Technical College, China
IT4037 16:15-16:30	Research on the Application of Artificial Intelligence Tools in English Writing Assessment Author/Authors: Zhi Wang Presenter: Zhi Wang Civil Aviation Management Institute of China, China
IT4160 16:30-16:45	The Application of Coq in Mathematics Teaching Author/Authors: Yan Chen, Wensheng Yu, Ru Zhang Presenter: Yan Chen Beijing University of Posts and Telecommunications, China
IT4043 16:45-17:00	Analysis of the Teaching Effect of Higher Mathematics Based on Smart Education Platform in the Context of Digital Education Author/Authors: Bixia Wan, Youyan Wan Presenter: Bixia Wan Jiangnan University, China

IT4212 17:00-17:15	Intelligent Recognition System of Nursing Students' Procedural Steps of Cardiopulmonary Resuscitation Based on 3D-ResNet Author/Authors: Yao Xiao, Gaoge Wang, Haimei Zhang, Mengmeng Qi, Qiaoling Miao, Bowen Liu Presenter: Yao Xiao Central China Normal University, China
IT4198 17:15-17:30	Evaluation of Vocabulary Learning Apps Based on Vocabulary Knowledge Framework Author/Authors: Yiyi Xie, Yi Zhang Presenter: Zezong Tang Northwestern Polytechnical University, China



Track 4

Educational Informatization, Online Education, and Blended Learning

Track Chair: Assoc. Prof. Liang ZHAO, Central China Normal University, China	
Time: 15:30-17:30, September 13, 2024, Friday	
Venue: Room N115 (1 st Floor) 教室 N115 (一楼)	
*Presenters are recommended to enter the meeting room 10 mins in advance.	
**Presenters are recommended to stay for the whole session in case of any absence.	
***After the session, there will be a group photo for all presenters in this session.	
IT4083 15:30-15:45	Blockchain-based Educational Credential Sharing with Privacy Protection and Incentive Mechanism Author/Authors: Sida Huang, Dongkun Hou, Zitian Peng, Yuji Dong, Jie Zhang Presenter: Sida Huang Xi'an Jiaotong-Liverpool University, China
IT4005 15:45-16:00	A Case Study on the Informationization of Science Education in Urban Village Primary Schools from the Perspective of Classroom Ecology Author/Authors: Ya Zhao, Taotao Long Presenter: Ya Zhao Central China Normal University, China
IT4095 16:00-16:15	Research on Knowledge Graph Recommendation Method for Online Education Author/Authors: Jin Yang, Chao Duan, Zhaozhan Zeng, Yumeng Liu, Jingjing Bai, Mingyan Zhang Presenter: Jin Yang Zhejiang Normal University, China
IT4186 16:15-16:30	Comparing Student Engagement in a Blended Synchronized Course across Campuses: Face-to-Face (F2F), Online-to-F2F, and F2F-to-Online Author/Authors: Xingyan Sun, Yaxuan Wang, Guoqing Zhao, Lili Li Presenter: Xingyan Sun Beijing Normal University Beijing, China
IT4016-A 16:30-16:45	Digital Technologies in Authentic Assessment in Higher Education: A Systematic Search and Narrative Synthesis Author/Authors: Anjin Hu, Qian Liu, Ben Daniel Presenter: Anjin Hu University of Otago, New Zealand & Hunan Institute of Technology, China
IT4069 16:45-17:00	A Study of Blended Learning Based on the Mathematical Analysis Course Author/Authors: Jinpeng You, Youyan Wan Presenter: Jinpeng You

	Jiangnan University, China
IT4208 17:00-17:15	Exploring the Relationship Between Online Interaction Measures and Problem-Solving Skills Through Social Network Analysis – Through Online Case Discussion Supported by Role Scripting Author/Authors: Rongna Li, Zhihan Qiao, Weiqin Wu, Jinmin Yang Presenter: Zhihan Qiao Central China Normal University, China
IT4179 17:15-17:30	Conceptual Design of a Learning State Monitoring System Based on Lightweight Neural Network Author/Authors: Xinyi Peng, Xinfeng Li Presenter: Xinyi Peng Hangzhou Normal University, China



Track 5

Intelligent Education Video Analysis: From Facial Expression Recognition to Sentiment Analysis

Track Chair: Prof. Jingying CHEN, Central China Normal University, China

Time: 15:30-17:30, September 13, 2024, Friday

Venue: Room N117(1st Floor) 教室 N117 (一楼)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4170 15:30-15:45	Teaching Behavior in Elementary School Science Supported by an Intelligent Video Analytics Platform Author/Authors: Yuxin Ding, Yanyan Jin, Qian Zhang, Pan Yuan, Zhicheng Dai, Xian Peng Presenter: Yuxin Ding Central China Normal University, China
IT4217 15:45-16:00	Facilitating College English Learning and Teaching through Mobile Technology Author/Authors: Lingling Jiang, Yi Zhang Presenter: Zezong Tang Northwestern Polytechnical University, China
IT4176 16:00-16:15	Analysis of the Correlation Between Student Listening Behavior and Academic Performance Author/Authors: Shiyong Chen, Shipeng Cai, Wei Xu, Jun Sun Presenter: Shipeng Cai Huazhong University of Science and Technology, China
IT4062 16:15-16:30	Cutting-edge Technical Features and Hedonic Motivation: Keys for a Wonderful Journey in Virtual Museum Author/Authors: Chenglin Yang, Shujing Jiang, Junhua Xian, Yue Sun Presenter: Chenglin Yang Macao Polytechnic University, China
IT4090 16:30-16:45	A Sentiment Analysis Approach for Joint Transformer and CNN Architectures Author/Authors: Chen Wang, Minghao Liu, Xin Wang, Minjeong Kim Presenter: Chen Wang Dankook University, Korea
IT4234 16:45-17:00	The Impacts of Collective Intelligence on Students' Online Collaborative Learning: A Systematic Literature Review Author/Authors: Yayang Zhou, Sitong Ran Presenter: Yayang zhou

	Nanjing University of Posts and Telecommunications, China
IT4189 17:00-17:15	<p>An Investigation into the Current Status and Mitigation Strategies of Digital Transformation for Primary School Teachers Based on the Diffusion of Innovations Theory</p> <p>Author/Authors: Jing Zhang, Lu Liu, Xinyi Hu, Jun Lan, Jiangnan University, China</p> <p>Presenter: Jing Zhang</p> <p>Jiangnan University, China</p>
IT4216 17:15-17:30	<p>Acoustic Analysis of the Effect of Educator's Face Direction on Students' Phonetic Recognition</p> <p>Author/Authors: Keisuke Yoshida, Minori Tsuji, Katsumi Hama, Sadayoshi Mikami</p> <p>Presenter: Keisuke Yoshida</p> <p>National Institute of Technology, Hakodate College, Japan</p>



Track 6

Artificial Intelligence Enhanced Special Education and Collaborative Learning

Track Chair: Assoc. Prof. Xianglian YU, Jiangnan University, China

Time: 13:30-15:30, September 14, 2024, Saturday

Venue: Room 8001 (8th Floor) 教室 8001 (八楼)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4009 13:30-13:45	Intelligent Recommendation for Personalized Educational Intervention for Children with Autism Author/Authors: Shujuan Zhou, Ruyi Xu, Chang Chen, Jie Pan Presenter: Shujuan Zhou Central China Normal University, China
IT4127 13:45-14:00	Personalized Remote Intervention for Children with Autism: The Integration of Augmentative and Alternative Communication and Artificial Intelligence Author/Authors: Xin Liu, Yuan Sun Presenter: Xin Liu Jiangnan University, China
IT4048 14:00-14:15	A Meta-Analysis of Multimodal Learning Analytics in Special Education Author/Authors: Meiqin WANG, Wan XIAO, Biyun SHENG Presenter: Meiqin Wang Nanjing University of Posts and Telecommunications, China
IT4022 14:10-14:30	Dynamic Brain Network Transitions of Children with Autism in Spontaneous Brain Activity Author/Authors: Jincheng Guo, Chang Cai, Yuanshun Long, Leyuan Liu, Jingying Chen Presenter: Jincheng Guo Central China Normal University, China
IT4133 14:30-14:45	Assessment And Intervention for Children with Autism: Are AI Technology Interventions Effective? Author/Authors: Yunbo Shen, Xianglian Yu, Xianglin Liao Presenter: Yun-Bo Shen Jiangnan University, China
IT4059 14:45-15:00	Study on Socially Shared Regulation Approaches for Socio-emotional Interaction in Online Collaborative Learning Environment Author/Authors: Ying Ding, Dan Liu

	<p>Presenter: Ying Ding Liaoning Normal University, China</p>
<p>IT4028 15:00-15:15</p>	<p>Automatic Detection of Cognitive Presence in Online Collaborative Learning Discussions Using Knowledge Information Author/Authors: Ye Junmin, Luo Sheng, Yu Shuang, Yin Xinghan, Si Kaiyan, Ren Wen Presenter: Sheng Luo Central China Normal University, China</p>



Track 7

Technology-Enhanced Learning and Instruction-A

Track Chair: Assoc. Prof. Ying FANG, Central China Normal University, China

Time: 13:30-15:30, September 14, 2024, Saturday

Venue: Room 8006 (8th Floor) 教室 8006 (八楼)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4180 13:30-13:45	Examining the Potential of RobotGPT in Enhancing Learning: A Multimodal Fusion Analysis Author/Authors: Jiahui Wang, Jiayin Song, Nan Xie, Haipeng Lu Presenter: Jiahui Wang Tongji University, China
IT4220 13:45-14:00	Design and Effectiveness Analysis of a Human-AI Dialogue Mode for Promoting Students' Reading Comprehension Author/Authors: Xiaoyu Zhao, Xiaofang Gong, Zhongling Liu, Ying Zhang, Xiuhuan Li Presenter: Xiaoyu Zhao Central China Normal University, China
IT4055 14:00-14:15	Exploring Learners' Interactions with GenAI Agents in Educational Games: Typologies and Emotional Factors in Human-Computer Interaction Author/Authors: Ziqi Chen, Zhaoyang Xiong, Xinli Ruan, Shujing Jiang, Wei Wei, Ke Fan Presenter: Ziqi Chen Macao Polytechnic University, China
IT4137 14:15-14:30	An Empirical Study of Online Machine Translation as an Aid to Academic English Writing Author/Authors: Yi Xing, Cuiying Zou Presenter: Yi Xing Wuhan Business University, China
IT4046 14:30-14:45	Research on the Knowledge Graph-driven Human-Machine Collaborative "Dual-Teacher Classroom" Teaching Model Author/Authors: Haiguang Fang, Zeyu Li, Xianchuang Wang, Yang Deng Presenter: Zeyu Li Capital Normal University, China
IT4017 14:45-15:00	The Impact of Personal Learning Environments Platform on High School Students' Applied English Writing Learning Effectiveness and Motivation Author/Authors: Yangying Guo, Xiaoshu Xu, Yunfeng Zhang, Huanhuan Zhang, Jie Weng Presenter: Yangying Guo

	Wenzhou University, China
IT4042 15:00-15:15	Evaluation and Analysis of Large Language Models Performance in English Exam Author/Authors: Mingrui Xu, Jianwei Li, Yanli Ji, Yanlian Sun, Ru Zhang Presenter: Mingrui Xu Beijing University of Posts and Telecommunications, China
IT4026 15:15-15:30	Instrument Validation of a Science Achievement Test Using Item Response Theory Analysis Author/Authors: Chenxuan He, Zhen Li, Fuhui Tong Presenter: Chenxuan He Central China Normal University, China



Track 8

Learning Analytics and Educational Data Mining

Track Chair: Assoc. Prof. Pei Cheng Ooi, University of Nottingham Malaysia, Malaysia	
Time: 13:30-15:30, September 14, 2024, Saturday Venue: Room 10001 (10 th Floor) 教室 10001 (十楼)	
*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session.	
IT4111 13:30-13:45	Investigating Learners' Interaction Patterns in Synchronous and Asynchronous Online Discussions and Their Relationship with Learning Performance Author/Authors: Yuping Zhao, Huanyou Chai, Jixin Wang Presenter: Yuping Zhao Central China Normal University, China
IT4045 13:45-14:00	Research on Intelligent Classroom Interaction Analysis and Its Data Fusion Model Author/Authors: Haiguang Fang, Lili Shu, Xianchuang Wang, Xin Hong Presenter: Lili Shu Capital Normal University, China
IT4222 14:00-14:15	Exploring the Wearable Sensors for Learning Analytics: Trends, Challenges, and Prospects Author/Authors: Huaqing Hong, Ling Dai, Xiulin Zheng Presenter: Huaqing Hong Nanyang Technological University, Singapore
IT4073 14:15-14:30	Harnessing Bidirectional Learning for Enhanced Student Performance Prediction Modeling Author/Authors: Leyao Zhang, Yangyang Li, Xiong Xiao, Xiuling He, Zhipin Peng Presenter: Leyao Zhang Central China Normal University, China
IT4228 14:30-14:45	Research on Eye Movement Feature Mining to Represent Learning engagement in the Process of Natural Reading Author/Authors: Lu Li, Ziquan Li, Liyan Yu, Aixia Li Presenter: Lu Li Ludong University, China
IT4032-A 14:45-15:00	A Study of The Evolution of Viewpoints in Knowledge Building Community Based on Cognitive Dissonance Theory Author/Authors: WU Lei, Li Ke-Xin, TAN Jin-Bo Presenter: Kexin Li Shandong Normal University, China

IT4077 15:00-15:15	Data-Driven Analysis and Evaluation of Pedagogical Innovation Author/Authors: Mengjie Cui, Yangyang Li, Xiuling He, Ruijie Zhou Presenter: Ruijie Zhou Central China Normal University, China
IT4209 15:15-15:30	Research of OMO teaching mode based on Data driven Author/Authors: Guohui Zhao Presenter: Guohui Zhao Shanghai Open University Fengxian Branc, China



Track 9

Artificial Intelligence Applications and Innovations in Education-A

Track Chair: Assoc. Prof. Jianwei LI, Beijing University of Posts and Telecommunications, China	
Time: 13:30-15:30, September 14, 2024, Saturday Venue: Room 10127 (10 th Floor) 教室 10127 (十楼)	
*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session.	
IT4040 13:30-13:45	Exploration of AI-Empowered Professional Skill Training Models for Normal School Students Author/Authors: Wan Ma, Shanfei Shi, Chuang Zhu, Beiyuan Xing, Yaping Wang, Jiangbo Shu Presenter: Wan Ma Central China Normal University, China
IT4076 13:45-14:00	Depthwise Separable Convolution Fusion Representation of Four-Dimensional Features and Learner Cognitive States Recognition Based on EEG Signals Study Author/Authors: Xiuling He, Chongyang Zhou, Yue Li, Jing Fang, Yingting Li, Chenxu Liu Presenter: Yue Li Central China Normal University, China
IT4139 14:00-14:15	Decoding Acceptance through Technology Acceptance Model: A Descriptive Study of ChatGPT Usage Across Academic Disciplines Author/Authors: Florlyn Mae Remegio, Remelyn Asahid-Cheng Presenter: Florlyn Mae C. Remegio Sultan Kudarat State University, Philippines
IT4163 14:15-14:30	Exploring Teachers' Perspectives and Strategies on Student Assessment Using Generative AI in Chinese Universities Author/Authors: Yuting Zhang, Weiwei Ma, Min Xiao Presenter: Yuting Zhang & Min Xiao Zhejiang Normal University, China & Jiangxi University of Finance and Economics, China
IT4041 14:30-14:45	Research on AI Empowered Pen Writing Training Author/Authors: Shanfei Shi, Wan Ma, Chuang Zhu, Jiangbo Shu Presenter: Shanfei Shi Central China Normal University, China
IT4101 14:45-15:00	Prompt Engineering for Curriculum Design Author/Authors: Jonathan Leung, Zhiqi Shen Presenter: Jonathan Leung

	Nanyang Technological University, Singapore
IT4213 15:00-15:15	EduGuard-LLM: An AI-Generated Content Detector Using Large Language Models for Safeguarding Educational Integrity Author/Authors: Longfei Liu, Dengbo Zhang, Binger Yan, Dan Wu Presenter: Dan Wu Shenzhen Institute of Advanced Technology, Chinese Academy of Science, China
IT4162 15:15-15:30	Generative Artificial Intelligence in Elementary School Science Teaching and Learning Author/Authors: Qian Zhang, Yali Wang, Yuxin Ding, Pan Yuan, Zhicheng Dai, Xian Peng Presenter: Qian Zhang Central China Normal University, China



Track 10

Technology-Enabled Learning Science and Learning Mechanisms

Track Chair: Assoc. Prof. Hang HU, Southwest University, China

Time: 16:00-18:00, September 14, 2024, Saturday

Venue: Room 8001 (8th Floor) 教室 8001 (八楼)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4229 16:00-16:15	Factors Predicting Performance and Motivation in Chatgpt-Supported Asynchronous Online Discussion Author/Authors: Jiarong Liang, Jing Cao, Xinran Xu, Heng Luo Presenter: Jiarong Liang Central China Normal University, China
IT4221 16:15-16:30	Research and Practice on Interdisciplinary Teaching of immersive drama experience creation based on VR and MR Author/Authors: Shan Wang Presenter: Shan Wang The Central Academy of Drama, China
IT4057 16:30-16:45	Implementing Generative AI Agent Game to Support Reading of Classical Chinese Literature: A Needs Analysis Author/Authors: Haoming Lin, Zhaoyang Xiong, Hanlin Tang, Shujing Jiang, Wei Wei, Ke Fang Presenter: Haoming Lin Macao Polytechnic University, China
IT4063 16:45-17:00	ChatGPT and Text-to-Speech with Instructional Motivation in Online Oral English Learning Author/Authors: Wen Liu, Yongping Xiong, Lu Zhang Presenter: Wen Liu Beijing University of Posts and Telecommunications, China
IT4106 17:00-17:15	A Study on Impact of Junior High School Students' Programming Learning Effect Based on Generative Artificial Intelligence Author/Authors: Heng Zhang, Min Li Presenter: Heng Zhang South China Normal University, China
IT4197 17:15-17:30	The Potential Mechanisms and Approaches of Generative Artificial Intelligence in Oral English Education Author/Authors: Zezong Tang, Yi Zhang

	Presenter: Zezong Tang Northwestern Polytechnical University, China
IT4145 17:30-17:45	Evaluation of Students' Digital Literacy Based on Network Psychometrics Author/Authors: Wei Qin, Sha Zhu Presenter: Wei Qin Central China Normal University, China
IT4129-A 17:45-18:00	Exploring How Knowledge Types and Expertise Influence the Learning of Medical Knowledge: An EEG-based study Author/Authors: Jingjing Chen, Xinran Chen, Huijuan Wu, Dan Zhang Presenter: Jingjing Chen Tsinghua University, China



Track 11

Technology-Enhanced Learning and Instruction-B

Track Chair: Assoc. Prof. Kaifang YANG, Shaanxi Normal University, China	
Time: 16:00-18:00, September 14, 2024, Saturday Venue: Room 8006 (8th Floor) 教室 8006 (八楼)	
Online Room B: 827 6075 5186 (Password: Wuhan)	
*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session.	
IT4156 16:00-16:15	Constructing From Assessment: An Empirical Study of Peer Assessment Affecting Metacognitive Skills Author/Authors: Zhonghua Wang, Wenna Li, Yuting Jia Presenter: Wenna Li Central China Normal University, China
IT4190 16:15-16:30	Application of Finite Element Technology in Vocational Education - Developing Visual Materials to Improve Teaching Effectiveness Author/Authors: Shang Wang Presenter: Shang Wang Beijing Polytechnic, China
IT4202 16:30-16:45	The Predictive Role of Cognitive and Affective Factors on Deep Learning Behavior in Technology-Enhanced Learning Author/Authors: Jiawei Guo, Fuhai An Presenter: Jiawei Guo Hangzhou Normal University, China
IT4219 16:45-17:00	Exploring the Development of Reflective Level and Metacognition: A Cognitive Network Analysis of Continuous Reflective Reporting Author/Authors: Qihui Zhang, Rongna Li, Zhihan Qiao, Jiumin Yang Presenter: Qihui Zhang Central China Normal University, China
IT4177 17:00-17:15	Developing a Game to Assess Abstraction Skills of Elementary Students: Design Principles and Validation Process Author/Authors: Qi Luo, Shuhan Zhang Presenter: Qi Luo Macao Polytechnic University & Heyuan Polytechnic, China

<p>IT4238(Online) 17:15-17:30</p>	<p>Perceptions of the Impact of Artificial Intelligence Learning on the Training of Dental Students at A Public University Author/Authors: Carmen Chauca, Virgilio Quispe, Maritza Arones, Víctor Monge, Enrique Mendoza Caballero Presenter: Carmen Chauca Universidad Nacional San Luis Gonzaga, Peru</p>
<p>IT4193 (Online) 17:30-17:45</p>	<p>Research on the "Diversified and Stereoscopic" Integrated Circuit Practice Teaching System Guided by Industry Application Models Author/Authors: Meixiu Zhou, Xia Wu Presenter: Meixiu Zhou Jinan University, China</p>
<p>IT4182 (Online) 17:45-18:00</p>	<p>HIWAGA: The Use of 3D-Role Playing Game as an Educational Tool for Teaching the Culture, Values, and Mythology Author/Authors: Carlito Jr Loyola, Bruxelle Jaszchwa De Leon Presenter: Carlito Jr Loyola National University, Philippines</p>



Track 12

Data and Theories-Driven Empirical Research in Education

Track Chair: Dr. Dongpo GUO, Jiangnan University, China

Time: 16:00-17:45, September 14, 2024, Saturday

Venue: Room 10001 (10th Floor) 教室 10001 (十楼)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4079 16:00-16:15	How Does the New College Entrance Examination Reform Impact Student Admission Quality? An Empirical Study in Hunan's Local Higher Normal Colleges Author/Authors: Shuhui Wang, Tai Wang Presenter: Shuhui Wang Central China Normal University, China
IT4113 16:15-16:30	The Study on Quality Assessment Framework of Generative Digital Educational Resources Author/Authors: Dongpo Guo, Xing Li, Yi Wang, Xiaochun Zhou, Shengyingjie Liu Presenter: Dongpo Guo Jiangnan University, China
IT4088 16:30-16:45	Research Talent Evaluation Tool Based on User Portrait Author/Authors: Junqiang Zhang, Ran Li, Wenxuan Luo Presenter: Wenxuan Luo University of Electronic Science and Technology of China, China
IT4049 16:45-17:00	Generative AI-Assisted Collaborative Argumentation: Implications for the Argumentation Process and Outcome Author/Authors: Wenping Liu, Xin Cui Presenter: Wenping Liu Jiangnan University, China
IT4027 17:00-17:15	Testing Protocol for English Learners: A Perspective from A Large-scale Multi-site Randomized Controlled Trial Author/Authors: Chenxuan He, Zhen Li, Fuhui Tong Presenter: Chenxuan He Central China Normal University, China
IT4242 17:15-17:30	Applying AIGC in College Class to Promote the Construction of Group Collaborative Concept Maps and Improve Learning Performance Author/Authors: Jinju Duan, Yadi Liu, Yingjie Xing Presenter: Jinju Duan

	Southwest University, China
IT4230 17:30-17:45	LLM-Empowered Image Generation in the Neko Painter App: A Preliminary Application for Producing Teaching Materials Author/Authors: Kaiyi Wu, Jiaoyang Ding, Jingsen Li, Yuke Yang, Chen Zhang, Jiabin Cao Presenter: Kaiyi Wu Hong Kong Artificial Intelligence Creation and Learning Limited (HKICAI), China
IT4237 17:45-18:00	A Systematic Review of the Role of Artificial Intelligence in Teaching and Learning Author/Authors: Jinpeng Wang, Qingqing Xing, Yihe Qian, Ahsan Akbar Presenter: Jinpeng Wang Guangzhou City University of Technology, China



Track 13

Artificial Intelligence Applications and Innovations in Education-B

Track Chair: Dr. Jing ZHANG, Jiangnan University, China

Time: 16:00-18:00, September 14, 2024, Saturday

Venue: Room 10127 (10th Floor) 教室 10127 (十楼)

Online Room A: 880 0215 3256 (Password: Wuhan)

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4203 16:00-16:15	A Narrative Review of Utilizing Generative Artificial Intelligence in Classroom Instructions Author/Authors: Yuxuan Shi, Wen Huang, Yijing Sang Presenter: Yuxuan Shi Beihang University, China
IT4047 (Online) 16:15-16:30	A Study of Student Behavioral Pathways in Gen AI-Enabled Economics and Management Courses Teaching and Learning Author/Authors: Yu Lu, Shuai He, Riyue Zhang Presenter: Riyue Zhang Beijing University of Posts and Telecommunications, China
IT4231 16:30-16:45	Intent Research on the Use of Generative AI by Student Teachers: An Integration Model Based on SOR and TAM Author/Authors: Qi Hu, Lvqing Xu Presenter: Qi Hu South China Normal University, China
IT4245 16:45-17:00	Integrating AI and Human Feedback to Optimize Interdisciplinary Proposal Writing in Science Graduate Students Author/Authors: Qingqing XING, Lan LUO, Jun LIU Presenter: Lan LUO The Hong Kong University of Science and Technology (Guangzhou), China
IT4146 17:00-17:15	A Case Study of AI Application in Singing Research Author/Authors: Jiewei Zhao, Yan Hu, Yingdi Yan, Dingzhong Yang Presenter: Jiewei Zhao South Central Minzu University, China
IT4056 17:15-17:30	Research on Sentiment Analysis and Theme Mining of MOOC Course Reviews Based on SnowNLP-LDA Author/Authors: Min Pan, Huixian Mao, Mengfei Gao

	Presenter: Mao Huixian Hubei Normal University, China
IT4011 17:30-17:45	Research On Automatic Discourse Classification During Collaborative Knowledge Construction: A Deep Learning Analysis Method Based on Semantic Extension Author/Authors: Yangyang Li, Chun Gan, Zhuang Xiong, Xiuling He, Jing Fang, Ruijie Zhou Presenter: Chun Gan Central China Normal University, China



Poster Session 1

Educational Data Mining and Intelligent Teaching Video Analysis

Session Chair: Prof. Hairu YANG, China West Normal University, China

Time: 13:30-15:45, September 14, 2024, Saturday

Venue: Lobby of Nanhu Complex Building (2nd Floor) 南湖综合楼二楼

*Presenters are recommended to enter the meeting room 10 mins in advance.

**Presenters are recommended to stay for the whole session in case of any absence.

***After the session, there will be a group photo for all presenters in this session.

IT4036 13:30-13:45	Analysis and Prediction of Factors Affecting Student Grades in CSCL Using Genetic Programming-based Approach Author/Authors: Junmin Ye, Kaiyan Si, Shuang Yu, Xinghan Yin, Wen Ren, Sheng Luo Presenter: Kaiyan Si Central China Normal University, China
IT4023 13:45-14:00	A College Entrance Examination Major Score Recommendation Strategy Based on Collaborative Filtering Author/Authors: Xinyan Huang, Shengchun Ding Presenter: Huang Xinyan Nanjing University of Science and Technology, China
IT4084 14:00-14:15	A Study on Reflective Behavior Patterns of Teacher Education Students in Microteaching Author/Authors: Li Meng, Ling Jiang Presenter: Li Meng Central China Normal University, China
IT4169 14:15-14:30	The Analysis of Student Learning Behavior Based on Teachermate Data Author/Authors: Tianping Deng, Shiyong Chen, Tong Zhou Presenter: Tianping Deng Huazhong University of Science and Technology, China
IT4128 14:30-14:45	The Personalized Learning Path of Affective Computing in Enhancing Emotional Identification with Chinese Culture among International Students Studying in China Author/Authors: Chao Huang, Xianglin Liao Presenter: Chao Huang Wuyi University, China
IT4232 14:45-15:00	Student Behavior Detection in the Classroom Based on YOLOv10 and Edge Computing Author/Authors: Zhicheng Dai, Zihan Zhao, Wenxuan Zheng, Yue Yang Presenter: Zihan Zhao Central China Normal University, China

<p>IT4025 15:00-15:15</p>	<p>Architecture and Key Technologies for the Application of Big Data in Cognitive Psychology Author/Authors: Xiao Huang, Shengbo Hu, Tingting Yan Presenter: Xiao Huang Guizhou Normal University, China</p>
<p>IT4068 15:15-15:30</p>	<p>The Logic, Framework, and Path of Artificial Intelligence Applied to Personalized STEM Instruction Author/Authors: Ma Jiaen, Chen Xiaodi Presenter: Ma Jiaen Beijing Institute of Technology, China</p>
<p>IT4233 15:30-15:45</p>	<p>Research on Learning Status Evaluation in the Classroom Based on End-to-End Head Pose Estimation Author/Authors: Zhicheng Dai, Wenxuan Zheng, Zihan Zhao, Yue Yang Presenter: WenXuan Zheng Central China Normal University, China</p>



Poster Session 2

Artificial Intelligence and Cognitive Network Analysis in Education

<p>Session Chair: Assoc. Prof. Zhu SU, Central China Normal University, China</p> <p>Time: 16:00-18:15, September 14, 2024, Saturday Venue: Lobby of Nanhu Complex Building (2nd Floor) 南湖综合楼二楼</p>	
<p>*Presenters are recommended to enter the meeting room 10 mins in advance. **Presenters are recommended to stay for the whole session in case of any absence. ***After the session, there will be a group photo for all presenters in this session.</p>	
IT4096 16:00-16:15	A Review of Automated Essay Scoring Author/Authors: Jing Yang Presenter: Jing Yang Central China Normal University, China
IT4064 16:15-16:30	Design of Emotion Recognition and Oral Assessment Module for Intelligent Spoken Language Learning Platform Author/Authors: Zhisong Chen, Zhisong Chen, Renqing Yuan, Chang Zeng Presenter: Zhisong Chen Beijing University of Posts and Telecommunications, China
IT4244 16:30-16:45	Teacher Tracking in The Classroom Based on YOLO And Deepsort Author/Authors: Qiusha Min, Chang Liu, Jing Liu Presenter: Chang Liu Central China Normal University, China
IT4132 16:45-17:00	Modeling Gender Bias in Eastern and Western Artificial Intelligence from a Cross-Cultural Perspective Author/Authors: Jiayan Li, Fei Liu, Xinyue Zhang, Shuangshuang Cai, Xianglian Yu Presenter: Jiayan Li Jiangnan University, China
IT4135 17:00-17:15	How Artificial Intelligence Help Getting Assessment in Postgraduate Education off the Hook? Author/Authors: Xiang-Lian Yu, Jie Wu, Pin-Lin Li Presenter: Jie Wu Jiangnan University, China
IT4174 17:15-17:30	The Impact of Metacognitive Strategy-Supported Intelligent Agents on the Quality of Collaborative Learning from the Perspective of the Community of Inquiry Author/Authors: Mengfan Chen, Linjing Wu, Zhang Liu, Xinqian Ma Presenter: Mengfan Chen Central China Normal University, China

<p>IT4012 17:30-17:45</p>	<p>Analyzing Research Trends on Digital Textbooks in Korea Author/Authors: JuHyeon Kim, HyeRan Kim, Jun-Ho Kim, SangMin Noh, Jung-Ho Park Presenter: Jungho Park Chinju National University of Education, South Korea</p>
<p>IT4200 17:45-18:00</p>	<p>Research on the Social Epistemic Network (SENS) for Promoting Deeper Learning in University Students through Online Knowledge Construction Author/Authors: Shuang Du, Hang Hu Presenter: Shuang Du Sichuan International Studies University, China</p>
<p>IT4010 18:00-18:15</p>	<p>A Research on The Relationship Between Cognitive Level and Emotion by Integrating EBCNN Model and Epistemic Network Analysis Author/Authors: Ye Junmin, Ren Wen, Yu Shuang, Yu Shuang, Si Kaiyan, Luo Sheng, Zhao Gang Presenter: Wen Ren Central China Normal University, China</p>



DELEGATE LIST

Delegate	Qinjin Yang	Hebei Normal University, China
Delegate	John Emanuel Reiss	National University/DKI APCSS, USA
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Delegate	Sinan Chen	Kobe University, Japan
Delegate	Yanchao Gong	Xi'an University of Posts and Telecommunications, China
Delegate	Kaifang Yang	Shaanxi Normal University, China
IT4001 (Delegate)	Botao Yang	Jiangxi Normal University, China
IT4055 (Delegate)	Xinli Ruan	Tsinghua University, China
IT4213 (Delegate)	Longfei Liu	Shenzhen Institute of Advanced Technology, Chinese Academy of Science, China
IT4216 (Delegate)	Sadayoshi Mikami	Future University Hakodate, Japan

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Frontiers of Digital Education, Higher Education Press, China

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北京中科心研科技有限公司（以下简称“中科心研”），于2017年11月在怀柔科学城注册成立，是首家由中国科学院心理研究所及其在职研究人员发起并成立的一家心理数据产品研发与服务机构，心理所主业企业。中科心研核心产品是自主研发的多模态人因数据采集设备和心理评估与干预训练系统，通过神经、生理、心理、行为等多种数据的融合采集，为教育、司法、军工领域的特殊岗位人员提供心理选拔与训练、情绪与心理状态监测、心理赋能与增强服务，以及一站式人因解决方案和综合人因数据的分析与训练平台。

目前，公司已与多家行业龙头以及上下游企业建立战略合作，包括淘宝（中国）软件有限公司、华为技术有限公司、广东小天才科技有限公司、ADI 等，实现相关领域的技术攻关。中科心研以强大的科研与工程化能力迅速填补行业空白，实现多项产品国产化替代。自主研发的“心理特征测评系统”替代了奥地利 Schuhfried 公司研制的“维也纳心理测试系统”，为我国军工领域多个核心作业岗位的人员心理选拔提供了平台和数据支撑；自主研发的“多模态人因数据采集终端”替代了 MIT 的 Media Lab 孵化的用于癫痫和情绪监测的“Empatica E4 Wristband”。

中科心研拥有北京市“专精特新”中小企业，二级军工保密资质与国军标质量管理体系，以及高新技术企业、中关村高新技术企业、ISO9001 质量管理体系等资质，已授权的发明专利 8 项，实用新型专利 1 项，外观专利 1 项，软件著作权 30 余项，商标 11 项。主持和参与多项国家重点研发计划，科技部和国自然重点项目，军科委人机工效、混合智能、生物交叉领域重点项目，北京市怀柔科学城成果落地重大专项，并荣获“中科院在京科研团队科技成果转化创业奖”，“创客中国首届京津冀中小企业创新创业大赛企业组三等奖”，“第二十二届中国国际高新技术成果交易会优秀产品奖”等多项荣誉。在 2021 政法智能化建设技术装备及成果展中，中科心研与中国政法大学、中科院心理所共同研制的“服刑人员智慧评估与矫正系统”荣获智慧司法项目第一名。2022.5 参与录制的中央广播电视台拍摄纪录片《智能中国》播出，围绕智慧教育、人工智能辅助青少年心理健康应用落地方向提出解决方案。2022.5 参与《国民心理健康蓝皮书》项目，提供行业数据与分析报告。

中科心研目前共有员工 40 余名，汇聚了中科院心理所，清华大学，中科院软件所多位发展中国家科学院院士、中科院百人计划入选者、杰青、优青；以及来自中科院各院所、清华大学、北京师范大学、英国伦敦大学等多家国内外一流大学的硕士和博士，和来自阿里巴巴、联想研究院、军工院所等知名企业的核心技术和销售骨干，平均从业履历均在十年以上。

中科心研于 2020 年初完成千万级天使轮融资。未来将充分发挥自身专业优势，建立“至精至诚 专业可信”的企业核心价值观，秉承“让心可见，让科技更有温度”的企业使命，不断进行技术创新、设备创新、服务创新、管理创新，为实现“赋能一百个行业，服务一亿人”的企业愿景努力奋进。



CAMPUS TOUR (FREE) 校园参观



华中师范大学 档案馆(校史馆)
Archives & History Museum of Central China Normal University



华中师范大学档案馆(校史馆)

Archives & History Museum of Central China Normal University

虚拟校史馆访问链接: <http://xnxsg.ccnu.edu.cn>

Virtual University History Museum Access Link: <http://xnxsg.ccnu.edu.cn>

华中师范大学校史馆新馆已于 2022 年 10 月 2 日开馆, 有印象华师、百年辉煌、世纪华章三个展厅。新馆以学校发展足迹为主线, 以图文展板、实物展示、场景还原、多媒体放映及互动等形式集中展示了学校一个多世纪的办学历程, 其中老照片 5000 余张、实物档案 300 余件, 珍贵实物包括: 1874 年昙花林鼓架坡地契、恽代英和余家菊的成绩单、学校各时期校徽、民国各界名人题词、邓小平同志亲笔题写校名的手稿、林之棠等著名学者的手稿、汪金权绝笔等。

The new University History Museum of Central China Normal University (CCNU) opened on October 2, 2022. It features three exhibition halls: "Impression of CCNU," "A Century of Glory," and "Centennial Chapter." The new museum traces the development of the university, showcasing over a century of educational history through a variety of displays, including graphic panels, physical artifacts, scene reconstructions, multimedia screenings, and interactive exhibits. Among its collections are more than 5,000 old photographs and over 300 archival artifacts. Notable items include the 1874 Tan Hualin Drum Frame Slope Land Contract, academic transcripts of Yun Daiying and Yu Jiajv, various versions of the university emblem, inscriptions by notable figures from the Republic of China era, Deng Xiaoping's handwritten manuscript of the university's name, manuscripts by renowned scholars such as Lin Zhitang, and Wang Jinquan's last manuscript.

校史馆地址: 湖北省武汉市洪山区珞瑜路 152 号 华中师范大学科学会堂

Address: Science Hall, Central China Normal University, 152 Luoyu Road, Hongshan District, Wuhan, Hubei Province, China



华中师范大学博物馆

MUSEUM OF CENTRAL CHINA NORMAL UNIVERSITY



华中师范大学博物馆

Museum of Central China Normal University

华中师范大学博物馆源于 1951 年华中大学国学大师钱基博先生领衔筹建，并于 1953 年 4 月 6 日正式建成的“华中师范学院历史博物馆”。在历任校领导、历代历史系师生和广大社会爱心人士呵护下，华师历史博物馆始终坚守博物馆珍藏历史、传承文明的初心和使命，发挥了文物收藏、展示、鉴赏、研究、文化价值挖掘与传播传承等功能。历经 70 年的建设和发展，累计收藏有 3000 余套、近 2 万件藏品，藏品涵盖了石器、陶器、瓷器、玉器、青铜器、漆器、造像、书画、印章、钱币、织锦等 10 余个门类，为百年学府注入了深厚的文化底蕴，成为学校对外交流和展示的一张亮丽的名片。2018 年“华中师范学院历史博物馆”升级为“华中师范大学博物馆”。

博物馆新馆历经 5 年的建设，于 2022 年 5 月正式建成对外开放。新馆三楼设有三个基本陈列，分别为《馆藏文物精品展》《钱基博生平暨捐赠文物展》《馆藏书画精品展》等，共展出文物 540 余件。四楼为临时展厅和学术报告厅。总建筑面积约 3600 平方米，其中展厅面积约 1900 平方米。

《馆藏文物精品展》展出了石器、玉器、青铜器、造像、钱币、陶瓷器、织锦、鼻烟壶等八大门类文物，涵盖新石器时代至民国各历史阶段，充分体现了文物的历史和艺术价值，反映了各时代的生活需求和审美趣味，是艺术与生活的完美统一。

《钱基博生平暨捐赠文物展》分三部分，包括介绍钱基博先生的生平及学术成就、1950 年代华师博物馆建馆初期筹备工作的蜡像人物场景复原，以及他慷慨捐赠的部分文物专题展览。展品有其 1950 年代亲笔撰写的《捐赠文物登记册页》《华中师范学院历史博物馆赠品说明书》及捐赠的印章、砚墨文具、玉器、青铜器、陶瓷器、书画等等。

《馆藏书画精品展》展出的书画作品 35 件，包括唐代《敦煌石室写经长卷》、明代《陆治人物中堂》、清代《马荃花卉长卷》《成亲王手卷》《仿唐寅钟馗打鬼立轴》《罗浮道人东坡游赤壁立轴》《王翬山水立轴》《黄山樵子东方朔献寿图立轴》等等精美作品，这些书画多来自钱基博、张舜徽等学术名家及王爱施等校友捐赠。



The Museum of Central China Normal University originated from the "Central China Normal College History Museum," which was officially established on April 6, 1953, under the leadership of Qian Ji Bo, a renowned scholar of Chinese studies at Huazhong University, who began the preparation in 1951. Thanks to the dedication of successive university leaders, faculty, students of the Department of History, and many supporters from society, the museum has always adhered to its mission of preserving history and passing on civilization. It has played a significant role in the collection, display, appreciation, research, and dissemination of cultural heritage. Over 70 years of development, the museum has amassed over 3,000 sets, nearly 20,000 items, including stone tools, pottery, porcelain, jade, bronzes, lacquerware, sculptures, calligraphy, paintings, seals, coins, and brocade. These collections have enriched the cultural foundation of the century-old university, making the museum a shining card of the university's cultural exchange and exhibition. In 2018, the "Central China Normal College History Museum" was upgraded to the "Central China Normal University Museum."

After five years of construction, the new museum was officially completed and opened to the public in May 2022. The third floor of the new building houses three permanent exhibitions: "Exhibition of Fine Cultural Relics in the Collection," "Exhibition of Qian Ji Bo's Life and Donated Relics," and "Exhibition of Fine Calligraphy and Paintings in the Collection," featuring more than 540 artifacts. The fourth floor is designated for temporary exhibitions and an academic lecture hall. The museum's total floor area is approximately 3,600 square meters, with about 1,900 square meters of exhibition space.

The "Exhibition of Fine Cultural Relics in the Collection" showcases eight categories of cultural relics, including stone tools, jade, bronzes, sculptures, coins, ceramics, brocade, and snuff bottles. These artifacts span various historical periods from the Neolithic Age to the Republic of China, demonstrating the historical and artistic value of cultural relics and reflecting the living needs and aesthetic tastes of different eras—representing a perfect harmony between art and life.

The "Exhibition of Qian Ji Bo's Life and Donated Relics" is divided into three sections: an introduction to the life and academic achievements of Mr. Qian Ji Bo, a wax figure scene reconstruction depicting the preparation work for the museum's initial establishment in the 1950s, and a special exhibition of some of the artifacts he generously donated. The exhibits include Qian Ji Bo's handwritten "Register of Donated Artifacts" and "Instructions for Donated Items of the Central China Normal College History Museum" from the 1950s, along with donated seals, ink stones, jade, bronzes, ceramics, calligraphy, and paintings.

The "Exhibition of Fine Calligraphy and Paintings in the Collection" features 35 pieces of calligraphy and painting works, including the Tang Dynasty's "Dunhuang Stone Chamber Manuscript Long Scroll," the Ming Dynasty's "Lu Zhi Figure Scroll," the Qing Dynasty's "Ma Quan Flower Long Scroll," "Prince Cheng's Hand Scroll," "Imitation of Tang Yin Zhong Kui Ghost Striking Hanging Scroll," "Luofu Taoist Dongpo's Tour to Red Cliff Hanging Scroll," "Wang Hui Landscape Hanging Scroll," "Huangshan Hermit's Eastern Shuo Offering Longevity Hanging Scroll," among others. Many of these exquisite works were donated by renowned scholars such as Qian Ji Bo and Zhang Shunhui, as well as alumni like Wang Aishi.

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