



香港教育大學
The Education University
of Hong Kong



Harvard-EdUHK-Stanford Joint Symposium Emerging Technologies and Future Talents

新興科技與未來人才

哈佛-香港教育大學-斯坦福聯合論壇

Symposium Handbook 論壇手冊

Knowledge feast where great minds meet

睿智相遇的知識盛宴

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並不代表 UNESCO、香港教育大學以及所有合作和贊助方的立場與觀點。

INTRODUCTION

論壇介紹

In the early summer of 2025, representatives from Harvard University and Stanford University will jointly host the International Symposium on "Emerging Technologies and Future Talents" with the Education University of Hong Kong (EdUHK). This conference is co-hosted by Professor Lee Chi Kin, President of the Education University of Hong Kong, and the newly established Global Institute of Emerging Technologies (GIET). It will bring together outstanding scholars from world-renowned universities such as Harvard University, Stanford University, Nanyang Technological University, Shandong University, and the Education University of Hong Kong.

2025年初夏，哈佛大學、斯坦福大學代表與香港教育大學（EdUHK）將聯合舉辦“新興技術與未來人才”國際研討會。本次會議由香港教育大學校長李子建教授攜手新成立的全球新興技術研究所（Global Institute of Emerging Technologies, GIET）共同主辦，匯聚來自哈佛大學、斯坦福大學、南洋理工大學、山東大學及香港教育大學等世界知名高校的卓越學者。

The three-day symposium will focus on the in-depth integration of cutting-edge technologies such as artificial intelligence (AI), extended reality (XR), and machine learning in education, training, and talent cultivation. The conference includes keynote speeches and high-end forums. The keynote speakers include relevant policymakers from the Ministry of Education and industry experts from internationally leading AI enterprises.

為期三天的研討會將圍繞人工智能（AI）、擴展現實（XR）、機器學習等前沿技術在教育、培訓與人才培養中的深度融合展開。大會設有主題演講與高端論壇，演講嘉賓包括教育部相關政策制定者及國際領先AI企業的行業專家。

The conference features a rich and diverse range of formats, including innovation and entrepreneurship education workshops, thematic panel discussions, poster exhibitions, and showcases of the achievements of researchers, developers, and designers from around the world. Through multiple parallel forums, participants will conduct in-depth discussions on the applications of AI and large language models in STEAM teaching from K12 to higher education, the cultivation of creativity and future-oriented thinking, as well as the entrepreneurial ecosystem and talent strategies in the era of AI.

會議形式豐富多樣，涵蓋創新與創業教育工作坊、專題座談、海報展示及來自全球研究者、開發者與設計師的成果展演。與會者將通過多場平行論壇，深入探討AI與大語言模型在K12至高等教育STEAM教學中的應用、創造力與未來思維的培養，以及AI時代下的創業生態與人才戰略。

Outstanding research papers will have the opportunity to be expanded and published in high-impact academic journals (SCI, SSCI, CSSCI). Outstanding design works are also expected to cooperate with the Global Institute of Emerging Technologies to promote continuous optimization and the transformation of achievements.

優秀論文將有機會擴展發表於高影響力學術期刊（SCI、SSCI、CSSCI），傑出設計作品亦有望與全球新興技術研究所合作，推動持續優化與成果轉化。



KEYNOTE SPEAKERS

主旨演講嘉賓

All speakers are listed in alphabetical order

按字母顺序排列

KEYNOTE SPEAKERS

主旨演講嘉賓



Professor Chris Dede Chris Dede 教授

Distinguished Professor and Senior Research Fellow 特聘教授、高級研究員
Harvard University 哈佛大學

Bio

Prior to becoming a Senior Research Fellow, for 22 years Chris Dede was the Timothy E. Wirth Professor in Learning Technologies. His fundamental interest is developing new types of educational systems to meet the opportunities and challenges of the 21st century. His research spans emerging technologies for learning, infusing technology into large-scale educational improvement initiatives, developing policies that support educational transformation, and providing leadership in educational innovation. Currently, Dede is a co-principal investigator of the NSF-funded National Artificial Intelligence Institute in Adult Learning and Online Education. He co-founded the Silver Lining for Learning initiative and developed a widely used Framework for scaling up educational innovations.

個人簡介

Chris Dede教授現任哈佛大學高級研究員，曾連續二十二年擔任Timothy E. Wirth學習技術講席教授，長期致力於重塑面向21世紀的教育體系，聚焦未來人才的培養與教育變革的戰略路徑。其研究涵蓋新興學習科技的前沿應用、教育系統的規模化技術賦能、支持教育轉型的政策建構，以及教育創新的全球領導力。目前，Dede擔任美國國家科學基金會（NSF）資助的“成人學習與在線教育國家人工智能研究院”聯合首席研究員，並共同發起國際教育創新平台Silver Lining for Learning，創立並推廣了廣泛應用的教育創新擴展框架，在全球教育發展領域持續發揮深遠影響。



Professor Tina Grotzer Tina Grotzer 教授

Principal Research Scientist in Education, Faculty Director 首席教育研究科學家
Harvard Graduate School of Education 哈佛大學教育學院

Bio

Professor Tina Grotzer is a distinguished research scientist and educator with a focus on the learning and cognitive sciences. She has dedicated over three decades to applying cognitive science in various educational contexts, teaching on sustainability, complexity, and climate change. Grotzer is known for her work on fostering expert learners and promoting adaptive expertise to prepare students for future challenges. As the faculty director of the Next Level Lab, she explores future work environments and optimal learning. Her earlier roles include being a principal investigator on projects that advanced causal learning in education and understanding of ecosystems through immersive technology, supported by the NSF and IES. Among her accolades are an NSF Career Award, a PECASE award, and the Morningstar Teaching Award. Grotzer has authored numerous research publications, books, and curricula, and collaborated on educational television with major networks. Her pre-Harvard career includes over a decade as an administrator and teacher.

個人簡介

Tina Grotzer教授是享譽國際的學習與認知科學專家，致力於將認知科學應用於教育實踐，深耕可持續發展、系統複雜性與氣候變化等議題的教學研究。三十餘年來，她專注於培育具備適應性專長的學習者，推動學生面向未來挑戰的發展。作為哈佛大學Next Level Lab的學術主任，Grotzer教授引領對未來工作場景與最優學習方式的前瞻性探索。早年，她曾主持多項由美國國家科學基金會（NSF）與教育科學研究所（IES）資助的重點項目，推動因果學習機制與沉浸式技術在生態系統教育中的應用。Grotzer教授榮獲NSF青年學者獎（Career Award）、總統早期科學家與工程師獎（PECASE）及晨星教學獎（Morningstar Teaching Award），並出版多部學術著作與課程教材，廣泛參與主流媒體的教育節目策劃。加入哈佛大學前，她曾長期擔任教育行政人員與一線教師，積累深厚的實踐經驗與教育情懷。

KEYNOTE SPEAKERS

主旨演講嘉賓



Dr. Paul Kim Paul Kim 博士
World Bank 世界銀行

Bio

Dr. Paul Kim is the Founder and President of Seeds of Empowerment, a global social innovation incubator he established in collaboration with Stanford University graduate students in 2004. Currently, he serves as the Chair of the International Expert Committee on Education Technology at the World Bank and advises Lumos Capital, Roble Ventures, and Chegg, Inc. As the former Associate Dean and Chief Technology Officer of Stanford University's Graduate School of Education, Dr. Kim dedicated 24 years to advancing learning technology for marginalized communities worldwide. He also launched the Entrepreneur in Residence (EIR) Program and developed a learning innovation design challenge, serving as an edtech startup incubator for Stanford students. Dr. Kim now focuses on global learning technology and entrepreneurship initiatives in the Eurasian region, including designing advanced learning labs in Beijing centered on smart farming, VR/AI, biotech, and aerospace mobility. He also spearheads a youth entrepreneurship education program with Kazakhstan's Ministry of Science. In addition, he launched an AI-powered student learning journey planner for the Metro School District of Incheon, Korea.

個人簡介

Paul Kim博士是Seeds of Empowerment全球社會創新孵化器的創始人兼主席，該機構於2004年由他與斯坦福大學研究生共同發起設立。目前，他擔任世界銀行教育科技國際專家委員會主席，並擔任Lumos Capital、Roble Ventures與Chegg Inc.等機構的戰略顧問。作為斯坦福大學教育研究生院前副院長兼首席技術官，Kim博士在職24年間，長期致力於為全球弱勢群體推動學習科技的創新與普及。他曾創立“駐校企業家計劃”（Entrepreneur in Residence Program）與教育創新設計挑戰賽，為斯坦福學子搭建教育科技創業孵化平台。目前，Kim博士聚焦於歐亞地區的全球學習科技與創業項目，涵蓋北京智能農業、虛擬現實與人工智能、生物科技與航空航天流動技術等前沿領域的創新實驗室建設；他亦與哈薩克斯坦科技部合作，推進青年創業教育項目。此外，Kim博士還為韓國仁川都市學區開發了一套基於人工智能的學生個性化學習路徑規劃系統。



Professor John Chi-Kin Lee 李子建教授

President; Chair Professor of Curriculum and Instruction 校長、課程與教學講座教授
UNESCO Chair in Regional Education Development and Lifelong Learning
聯合國教科文組織區域教育發展與終身學習教席
The Education University of Hong Kong 香港教育大學

Bio

Professor Chi-Kin John Lee is a distinguished academic and leader in education, currently serving as President and Chair Professor at the Education University of Hong Kong. His career is marked by significant contributions to curriculum and instruction, including roles as Vice President (Academic) and Provost. Former Dean of Education and a recipient of the Vice-Chancellor's Exemplary Teaching Award at The Chinese University of Hong Kong (CUHK). Professor Lee has an extensive research background with a focus on various educational areas. He is a top-cited scientist and has secured numerous grants for his projects. Professor Lee is an active member of several editorial boards, has authored and co-edited over 25 books, and has been involved in education and social services locally, nationally and globally. His projects have won awards, and he has held various prestigious positions, including Changjiang Scholar Chair Professor, UNESCO Chair and membership in the Chinese People's Political Consultative Conference.

個人簡介

李子建教授是卓越的教育學者與領袖，現任香港教育大學校長及講座教授，長期深耕課程與教學領域，曾出任該校學術及首席副校長，推動高等教育創新與卓越發展。在加入教大前，李教授曾擔任香港中文大學教育學院院長，並獲頒校長模範教學獎，彰顯其卓越的教研成就。他在教育研究方面成果豐碩，涵蓋多個重要範疇，屢獲研究資助，科研影響力廣泛，躋身全球高被引學者行列。李教授亦積極參與國際學術交流，現為多個權威學術期刊編委，出版及主編著作逾25部，在本地、國家及國際層面均積極參與教育與社會服務工作。他主持的多項項目屢獲殊榮，並擔任多項重要職務，包括教育部“長江學者講座教授”、聯合國教科文組織教席教授，以及全國政協委員，致力推動教育改革與社會進步。

KEYNOTE SPEAKERS

主旨演講嘉賓



Professor John Clifford Mitchell John Clifford Mitchell教授

Mary and Gordon Crary Family Professor Mary and Gordon Crary Family 教授

Professor of Computer Science, Professor of Education and by Courtesy

Professor of Electrical Engineering 電腦科學教授，教育學教授和電氣工程學特邀教授

Stanford University 斯坦福大學

Bio

John C. Mitchell is the Mary and Gordon Crary Family Professor, Professor of Computer Science, and by courtesy Professor of Electrical Engineering and Professor of Education at Stanford University. He was previously Stanford Vice Provost for Teaching and Learning and Chair of the Computer Science Department. Mitchell's research focuses on programming languages, computer security and privacy, blockchain, machine learning, and technology for education. Mitchell's first research project in online learning started in 2009, when he and six undergraduate students built Stanford CourseWare, an innovative platform that expanded to support interactive video and discussion. CourseWare served as the foundation for initial flipped classroom experiments at Stanford and helped inspire the first massive open online courses (MOOCs) from Stanford. As Co-Director of the Lytics Lab, Carta Lab, and Pathways Lab, he has worked to improve educational outcomes through data-driven research and iterative design. His current education-related research projects are focused on collaborative learning and the use of generative AI. He currently serves as Faculty Director of the Hasso Plattner Institute of Design, which is also known as the Stanford d.school.

個人簡介

John C. Mitchell教授是斯坦福大學Mary and Gordon Crary Family講席教授，現任計算機科學系教授，同時兼任電機工程及教育學院榮譽教授。他曾擔任斯坦福大學教與學事務副教務長及計算機科學系主任，在學術與教育行政領域皆有深厚建樹。Mitchell教授的研究涵蓋程式語言、計算機安全與隱私、區塊鏈、機器學習以及教育科技。他於2009年啟動首個在線學習研究項目，帶領六位本科生開發了Stanford CourseWare平台，率先引入互動視頻與討論功能並為斯坦福翻轉課堂實驗及最早一批大規模開放在線課程（MOOCs）奠定基礎。作為Lytics Lab、Carta Lab與Pathways Lab的聯合主任，他以數據驅動的研究與迭代設計推動教育成效的持續提升。其當前研究聚焦於協作學習與生成式人工智能在教育中的應用。Mitchell教授亦擔任斯坦福設計學院（Hasso Plattner Institute of Design，簡稱d.school）學術總監，積極引領跨領域創新教育的發展。



Changxue Yu 于長學

Director of the Chinese and Foreign Cultural Exchange Centre of the Ministry of Education

教育部中外人文交流中心主任

Bio

Formerly served as Deputy Director General of the Department of Basic Education at the Ministry of Education, Counsellor and Consul at the Consulate General in Vancouver, Ambassador and Counsellor at the Embassy in Canada, and First Class Inspector of the Department of Basic Education at the Ministry of Education.

From December 2023, appointed as the Director-General of China Center for International People-to-People Exchange Ministry of Education (CCIEPE), the Ministry of Education.

個人簡介

于長學，教育部中外人文交流中心主任，曾任教育部基礎教育一司副司長，駐溫哥華總領館參贊銜領事，駐加拿大大使館公使銜參贊，教育部基礎教育司一級巡視員。從2023年12月起，被任命為教育部中外人文交流中心主任。

KEYNOTE SPEAKERS

主旨演講嘉賓



Professor Yew-Soon Ong Yew-Soon Ong 教授

President's Chair Professor of Computer Science BEng MEng PhD, FIEEE 校長講座教授
Nanyang Technological University (NTU), Singapore 新加坡南洋理工大學

Bio

Yew-Soon Ong is currently President's Chair Professor of Computer Science at the School of Computer Science and Engineering at Nanyang Technological University (NTU), Singapore. At the same time, he is Chief Artificial Intelligence (CAS) Scientist of the Singapore's Agency for Science, Technology and Research (A*STAR). At NTU, he presently serves as co-Director of the Singtel-NTU Cognitive & Artificial Intelligence Joint Lab (SCALE@NTU). He was Chair of the School of Computer Science and Engineering (SCSE), Nanyang Technological University from 2016-2018, Director of the Data Science and Artificial Intelligence Research Center (DSAIR) from 2016-2022, Director of the Centre for Computational Intelligence from 2008-2015 and Programme Principal Investigator of the Data Analytics & Complex System Programme Rolls-Royce@NTU Corporate Lab from 2013-2017.

個人簡介

Yew-Soon Ong 教授現任新加坡南洋理工大學(NTU) 計算機科學與工程學院校長講座教授。同時，他還是新加坡科技研究局 (A*STAR) 首席人工智能 (CAS) 科學家。在 NTU，他目前擔任新加坡電信-南洋理工大學認知與人工智能聯合實驗室 (SCALE@NTU) 聯席主任。他曾於2016年至2018年擔任南洋理工大學計算機科學與工程學院 (SCSE) 院長，於2016年至2022年擔任數據科學與人工智能研究中心 (DSAIR) 主任，於2008年至2015年擔任計算智能中心主任，並於2013年至2021年擔任數據分析與複雜系統項目 Rolls-Royce@NTU 企業實驗室的項目首席研究員。



Professor Minjuan Wang 王敏娟教授

Chair Professor of Emerging Technologies and Future Education

香港教育大學新興科技與未來教育講席教授

Associate Co-Director, Academy for Applied Policy Studies and Education Futures

應用政策研究及教育未來學院聯席副院長

Co-Director, Global Institute for Emerging Technologies

全球新興技術研究所聯席總監

Bio

Prof. Minjuan Wang is a newly appointed Chair Professor of Emerging and Technologies and Future Education at the Education University of Hong Kong, GIET Co-Director, and Editor-in-Chief of the IEEE Transactions on Learning Technologies (TLT). Her research specialties are multidisciplinary, focusing on STEM Education, Future Education enabled by new and emerging technologies, Metaverse and immersive learning, and the design and implementation of artificial intelligence including AIGC for teaching, learning and training. Professor Wang is a high-impact author and an internationally recognized scholar who has keynoted more than 45 conferences. She publishes extensively in indexed and high-impact English journals such as Nature-HSSC, Computers and Education, IEEE-TLT, and British Journal of Education Technology. In addition, her teaching and research were also featured in top core journals in China (e.g., Educational Research). As a senior member of the IEEE Education Society, she has contributed significantly to both the IEEE community and other scholarly circles. Her international reputation in the field is evident, reflected in her recent nomination as an iLRN scholar by Chris Dede from Harvard University.

個人簡介

王敏娟博士現任香港教育大學“新興技術與未來教育”講座教授，兼任全球新興技術研究所（GIET）聯席總監，以及國際權威期刊 IEEE Transactions on Learning Technologies主編，是國際學界公認的教育科技領軍人物。王教授的研究橫跨多個學科領域，聚焦於STEM教育、由新興科技驅動的未來教育、元宇宙與沉浸式學習，以及人工智能（包括生成式AI, AIGC）在教學與培訓中的設計與應用。她為高影響力學者，發表成果廣泛，發表於Nature-HSSC, Computers&Education, IEEE-TLT, British Journal of Educational Technology等國際頂尖學術期刊，其教學與研究亦屢登中國權威教育核心期刊（如《教育研究》）。作為IEEE教育學會資深會員，王教授在國際學術共同體中影響深遠，曾應邀擔任45場以上國際會議的大會主旨演講嘉賓，持續推動全球教育創新發展。其學術聲譽備受國際認可，近期更獲哈佛大學 Chris Dede 教授提名為 iLRN (國際沉浸式學習研究網絡) 學者，進一步彰顯其在全球教育科技領域的重要地位。

KEYNOTE SPEAKERS

主旨演講嘉賓



Dr. Shijin Wang 王士進博士

Vice CEO of iFlytek, Inc 科大訊飛研究院執行院長

Deputy Director of the State Key Laboratory of Cognitive Intelligence, P.R.China

中國認知智能全國重點實驗室副主任

Bio

Dr. Shijin Wang is currently the Executive Dean of the iFlytek Research Institute, Deputy Director of the National Key Laboratory of Cognitive Intelligence, and a part-time professor and doctoral advisor at the University of Science and Technology of China. His main research areas include signal processing, large models, and industry intelligence. He has received numerous awards, including the National Science and Technology Progress Award (First Class), the Provincial Science and Technology Award (First Class), the Wu Wenjun Artificial Intelligence Science and Technology Progress Award (First Class), the China Youth May Fourth Medal (collective), and the China Association for Science and Technology's Qiu Shi Outstanding Youth Achievement Transformation Award. He has led his team to win several international competitions such as SQuAD, GLUE, and VCR. Dr. Wang spearheaded the "iFlytek Xinghuo Large Model Technology and Application" project, releasing the leading Xinghuo large model in China and continuously empowering multiple industry applications.

個人簡介

王士進博士，現任訊飛研究院執行院長、認知智能全國重點實驗室副主任、中國科學技術大學兼職教授、博導。他主要從事信號處理、大模型、行業智能等研究，獲國家科技進步一等獎、省科學技術獎一等獎、吳文俊人工智能科技進步獎一等獎、中國青年五四獎章集體、中國科協求是傑出青年成果轉化獎，帶領團隊獲得 SQuAD、GLUE、VCR 等十幾項國際比賽冠軍。他主導了“訊飛星火大模型技術及應用”項目，發佈了國內領先的星火大模型，並持續賦能多個行業應用。



WORKSHOP

工作坊

Workshop I 工作坊 1

Harvard-Stanford Innovation Education
哈佛-斯坦福創新教育

Workshop II 工作坊 2

Writing and Publishing in High-Impact Journals
高影響力期刊的文章寫作與發表

Workshop III 工作坊 3

Leveraging Collaborative Generative AI for Design and Entrepreneurship Education
善用協作式生成式人工智慧於設計與創業教育之應用

Workshop

工作坊系列

In response to the needs of educational transformation in the era of artificial intelligence, this series of workshops focuses on innovative education, academic writing, and the integrated application of generative artificial intelligence in creative and entrepreneurial education. It systematically explores the key issues in educational practice and promotes knowledge exchange and cross-disciplinary cooperation.

為響應人工智能時代教育轉型的需求，本系列工作坊圍繞創新教育、學術寫作與生成式人工智能在創意與創業教育中的融合應用，系統探討教育實踐中的關鍵議題，促進知識交流與跨界合作。

Time: 1:00-5:30 PM, Thursday, 8 May, 2025

Location: The Education University of Hong Kong, Tai po

時間：2025年5月8日（星期四）下午1:00-5:30

地點：香港教育大學大埔校區

Workshop 1: Harvard-Stanford Innovative Education

工作坊一：哈佛-斯坦福創新教育

Time: 2:30-5:00PM, 8 May, 2025

Location:D1-LP-03

時間：2025年5月8日 2:30-5:00PM

地點：D1-LP-03

This workshop will introduce the representative projects and practical approaches of Harvard University and Stanford University in the field of innovative education, emphasizing the integration of the concepts of "design thinking" and "social entrepreneurship". It aims to cultivate the innovative awareness, social responsibility, and the ability to solve real problems among primary and secondary school students. Through interactive courses, practical tasks, and case studies, participants will experience the entire process from problem setting, idea generation, prototype design to iterative feedback, and explore the possible applications of innovative education in local teaching.

本工作坊將介紹哈佛大學與斯坦福大學在創新教育領域的代表性項目及其實踐路徑，強調“設計思維”與“社會創業”理念的融合，旨在培養中小學生的創新意識、社會責任感與解決真實問題的能力。通過互動課程、實踐任務與案例研究，參與者將體驗從問題設定、構思創意、設計原型到迭代反饋的全過程，探索創新教育在本地教學中的應用可能。

Speaker 演講者

Anny Chan, Teaching Fellow at Harvard University 陳康琪 哈佛大學教學研究員

Rongbing Shen, Alumnus of Harvard University 沈容冰 哈佛大學校友

Clara Yue Jia, Stanford University Clara Yue Jia 斯坦福大學

Workshop

工作坊系列

Workshop 2: Writing and Publishing in High-Impact Journals

工作坊二：高影響力期刊的文章寫作與發表

Time: 1:10-2:30 PM, 8 May, 2025

Location: D1-LP-04

時間：2025年5月8日 下午1:10-2:30

地點：D1-LP-04

This workshop aims to help researchers enhance their capabilities in submitting and publishing articles in international high-impact journals, and it deeply analyzes the key links from topic selection, conceptualization, writing to submission. The content covers how to construct a clear academic argumentation structure, write an attractive abstract, respond to reviewers' comments, and strategies for improving the acceptance rate of papers. The workshop will combine editorial practical experience with typical cases, provide practical writing tools and techniques, and assist researchers in expanding their academic influence.

本工作坊旨在幫助研究人員提升在國際高影響力期刊上投稿與發表的能力，深入解析從選題、構思、寫作到投稿的關鍵環節。內容涵蓋如何構建清晰的學術論證結構，撰寫具有吸引力的摘要，回應評審意見，以及提高論文通過率的策略。工作坊將結合編輯實踐經驗與典型案例，提供實用的寫作工具與技巧，助力研究人員拓展學術影響力。

Guest of Honor 特邀嘉賓

Guest 嘉賓	Affiliation 單位	Journal 期刊
Prof. CHIU Kin-fung, Thomas CHIU Kin-fung, Thomas教授	The Chinese University of Hong Kong 香港中文大學	Editor-in-Chief of Interactive Learning Environments Interactive Learning Environments 主編
Prof. Mutlu Cukurova Mutlu Cukurova 教授	UCL Institute of Education, University College London 倫敦大學學院教育學院	Editor-in-Chief of British Journal of Educational British Journal of Educational Technology 主編
Prof. Minjuan Wang 王敏娟教授	The Education University of Hong Kong 香港教育大學	Editor-in-Chief of IEEE Transactions on Learning Technologies IEEE Transactions on Learning Technologies 主編
Prof. Hui Li 李輝教授	The Education University of Hong Kong 香港教育大學	Editor-in-Chief of AI, Brain and Child AI, Brain and Child 主編
Prof. Ju Seong Lee 李主聖教授	The Education University of Hong Kong 香港教育大學	Associate Editor-in-Chief of Innovation in Language Learning and Teaching Innovation in Language Learning and Teaching 副主編
Dr. Weipeng Yang 楊偉鵬博士	The Education University of Hong Kong 香港教育大學	Co-Editor-in-Chief of the Journal of Research in Childhood Education Journal of Research in Childhood Education 聯合主編

Workshop

工作坊系列

Workshop 3: Leveraging Collaborative Generative AI for Design and Entrepreneurship Education

工作坊三：善用協作式生成式人工智慧於設計與創業教育之應用

Time: 5:00-6:30 PM, 8 May, 2025

Location:D1-LP-02

時間：2025年5月8日 下午5:00-6:30

地點：D1-LP-02

This workshop focuses on the innovative applications of Multimodal Large Language Models (MLLMs) in the cultivation of creative thinking and entrepreneurship education. Through hierarchical practical activities, participants will gain an in-depth understanding of the role of generative artificial intelligence tools in inspiring creativity, solving problems, and conceiving products, and master the basic framework for evaluation and iterative design. The course will also explore the integration trends of artificial intelligence with multiple fields (such as sustainable technology, biotechnology, immersive technology, etc.). By combining practical cases and market analysis, it will inspire the diverse possibilities of future entrepreneurship education.

本工作坊聚焦多模態大型語言模型（Multimodal Large Language Models, MLLMs）在創意思維培養與創業教育中的創新應用。透過分層實踐活動，參與者將深入理解生成式人工智慧工具在創意啟發、問題解決與產品構思中的作用，掌握評估與迭代設計的基本框架。課程還將探討人工智慧與多領域（如可持續技術、生物技術、沉浸式技術等）的融合趨勢，並結合實際案例與市場分析，啟發未來創業教育的多元可能。

Speaker 演講者

DR. Ting Fridolin Sze , The Education University of Hong Kong 陳世道博士 香港教育大學

Dr. Paul Kim, World Bank Paul Kim博士 世界銀行



PARALLEL SESSIONS

平行分會

Parallel Session I: AI for Teaching and Learning

平行會議 1: 教學、學習和培訓中的人工智能

Parallel Session II: Talents Development & Entrepreneurship in the Age of AI

平行會議 2: 人工智能時代的人才培養與創新創業

Parallel Session III: Science Education in the Age of Artificial Intelligence

平行會議 3: 人工智能時代的科學教育

Parallel Session IV: Large Language Model Enabled Computing Education

平行會議 4: 大語言模型赋能的計算教育

Parallel Session V: Ethics and Norms of Artificial Intelligence Technology

平行會議 5: 人工智能技術的倫理與規範

Parallel Session VI: AI Writing and Assessment

平行會議 6: 人工智能時代下的寫作與測評

Parallel Session VIII: AI-Enabled Development and Application of Digital Textbooks and Innovative Talent Cultivation

平行會議 8: 人工智能驅動的數碼教材開發與應用及創新人才培養

Parallel Session I: AI for Teaching and Learning

平行會議1：教學與學習的人工智能

Time: 10:00 AM-12:00 PM, Saturday, 10 May, 2025

Location: D1-LP-02, The Education University of Hong Kong

時間：2025年5月10日（星期六）上午10:00-12:00

地點：香港教育大學 D1-LP-02

Introduction

This forum focuses on the diversified applications of artificial intelligence technology in the field of education, exploring its cutting-edge practices and research achievements in teaching optimization, personalized learning, teacher support, and intelligent assessment. Participants will gain an in-depth understanding of how artificial intelligence enhances teaching effectiveness and the learning experience through means such as data-driven approaches, model assistance, and system integration.

簡介

本場論壇聚焦人工智能技術在教育領域中的多元化應用，探索其在教學優化、個性化學習、教師支援與智能評估方面的前沿實踐與研究成果。與會者將深入了解人工智能如何透過數據驅動、模型輔助和系統集成等手段提升教學效能與學習體驗。

Main Topic

- Innovation in Smart Teaching:** Discussing application examples of AI in curriculum recommendation, strategy optimization, and differentiated teaching.
- Transformation of Personalized Learning:** Demonstrating how generative AI and intelligent learning systems support the customization of learning paths and the dynamic push of resources.
- Upgrading of Intelligent Evaluation:** Introducing how AI supports formative evaluation, analysis of learning trajectories, and the automation of teaching feedback.

主要議題

- 智能教學革新：探討AI在課程推薦、策略優化與教學差異化方面的應用實例。
- 個性化學習變革：展示生成式AI與智能學習系統如何支援學習路徑定制與資源動態推送。
- 智能評價升級：介紹AI如何支援形成性評價、學習軌跡分析與教學反饋自動化。

Invited Speaker

Professor Leonel Caseiro Morgado Universidade Aberta & INESC TEC

Redesigning Education as a Cognitive Ecosystem: Practical Insights into Emerging Roles for Educators

特邀嘉賓

Leonel Caseiro Morgado教授 阿伯塔大學INESC TEC

將教育重新設計為一個認知生態系統：對教育工作者新興角色的實用見解

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S1-A	FAN Jiaron 范佳榮	Jilin Normal University 吉林師範大學	University Students' Intention to Use Large Language Model Agents for Learning: An Empirical Study Based on the UTAUT Model 大學生使用大語言模型智能體支持學習的意向： 基於UTAUT模型的實證研究
S1-B	LIAO Jingqian 廖婧茜	Shaanxi Normal University 陝西師範大學	Construction and Application of a Risk Indicator System Model for Digital Textbooks in Primary and Secondary Schools 中小學數位教材風險指標體系模型建構及其應用研究
S1-C	CAI Jiandong ZHOU Mengzhe BAO Feiyu 蔡建東 周夢哲 包飛宇	Henan University 河南大學	Exploring Generative AI Empowering Teaching Transformation: A Case Study of Open Classrooms in the U.S. 生成式人工智能賦能教學變革的探究——以美國開放課堂為例
S1-D	LI Lin ZHAO Huichen XIAO Lizhi 李琳 趙慧臣 肖立志	Henan University 河南大學	A Smart Resource Recommendation Model and Practical Path for Promoting Teachers' Multidimensional and Dynamic Development 促進教師多維度、動態化發展的資源智能化推薦模型與實踐路徑
S1-E	DENG Jiwei 鄧繼偉	Jinan University 暨南大學	DenoiseKT: A Knowledge Tracing Model Based on Denoising Attention Mechanism DenoiseKT：基於降噪注意力機制的知識追蹤模型
S1-F	SHA Weinan JIA Yixiang SHA Meichen HONG Xiumei	The Education University of Hong Kong 香港教育大學 Tsinghua University 清華大學 Nanjing Normal University 南京師範大學 Nantong Normal University 南通師範大學	Personalized Waiting Time: An Effective AI-Powered Number Sense Development Learning Tool 個性化等待時間：一個有效的AI驅動數感發展學習工具
S1-G	FAN Tianyi 范添怡	City University of Macau 澳門城市大學	Construction and Implementation of an AI-Assisted Teaching Strategy System for Design Disciplines in Higher Education AI輔助高校設計學科教學策略體系構建及實施效果研究
S1-H	LIU Qian XU Huifen 劉騫 徐慧芬	Hangzhou Normal University 杭州師範大學	Detecting the Willingness to Learn Mathematics with GAI-Assisted AR Measurement and the Development of the Platform GAI輔助數學AR測量學習意願及其平台開發研究
S1-I	Lihang GUAN 管利航	The Education University of Hong Kong 香港教育大學	Reimagining EFL Speaking Classrooms: The Transformative Role of AI in Mediating Teacher Immediacy and Teacher-Student Rapport for Students' Willingness to Communicate 重塑EFL口語課堂：AI在調解教師即時性與師生融洽關係中的 變革性作用
S1-J	BAI Youheng 白友恆	Jinan University 暨南大學	LefoKT: A Knowledge Tracing Model Based on Relative Forgetting Attention LefoKT：基於相對遺忘注意力的知識追蹤

Parallel Session II: Talent Development & Entrepreneurship in the Age of AI

分論壇 2：人工智能時代的人才培養與創新創業

Time: 10:00AM-12:00 PM, Saturday, 10 May, 2025

Location: D1-LP-04, The Education University of Hong Kong

時間：2025年5月10日（星期六）上午10:00-12:00

地點：香港教育大學 D1-LP-04

Introduction

This sub-forum aims to explore how to promote the upgrading and innovation of the educational technology architecture through artificial intelligence, and to facilitate the transformation of the education model. It also focuses on the collaborative development paths of the talent cultivation mechanism and innovation and entrepreneurship education in the context of the integration of science and technology education and industry.

簡介

本分論壇旨在探討如何透過人工智能推動教育技術架構的升級與創新，促進教育模式的變革，並聚焦科技教育與產業融合背景下，人才培養機制和創新創業教育的協同發展路徑。

Main Topics

- Exploration of Innovative Modes of Talent Cultivation Empowered by Artificial Intelligence
- Explore the In-Depth Application of Artificial Intelligence in Education and Its Challenges to the Traditional Education Model
- Cutting-edge Practices of the Integration of Artificial Intelligence and the Future of Education
- How Can Technology Enhance Learners' Innovative Abilities, Key Competencies, and Employability
- The Platform Coordination Mechanism and the Participation Paths of Multiple Stakeholders in the Educational Ecosystem

主要議題

- 人工智能賦能人才培養的創新模式探索
- 探討人工智能在教育中的深度應用及其對傳統教育模式的挑戰
- 人工智能與教育未來融合的前沿實踐
- 技術如何提升學習者創新能力、關鍵素養與就業勝任力
- 教育生態系統中的平台協同機制與多元主體參與路徑

Keynote Speaker

Professor Tina Grotzer Harvard University

Supporting Adaptive Expertise: What Does it Involve and Why Is it Important for the Workforce in a Complex and Changing World?

主旨演講嘉賓

Tina Grotzer教授 哈佛大學

支持適應性專業知識：其內涵為何？在複雜且不斷變遷的世界中為何對勞動力至關重要？

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S2-A	HU Hongli 胡虹麗	Jiangxi Normal University 江西師範大學	Reconstruction of the Core Literacy of Chinese Language from the Perspective of Cultural New Quality Productivity 文化新質生產力視域下語文核心素養的內涵重構
S2-B	LAI Shuning 賴淑寧	Xiamen University 廈門大學	Knowledge Graphs for Educational Innovation: Discourse Analysis of Collaborative Knowledge Construction 教育創新的知識圖譜：協作知識建構的話語分析
S2-C	QIAN Chunyu 錢春雨	Zhejiang University 浙江大學	Ubiquitous Learning Supported by Embodied Intelligence 具身智能支持下的泛在學習
S2-D	SUN Tianlinz 孫田琳子	Nanjing University of Posts and Telecommunications 南京郵電大學	Ethical Review of AI in Education from the Perspective of Policy Tools 政策工具視角下人工智能教育應用的倫理審度
S2-E	YANG Shuhan 楊舒涵	Yunnan Normal University 雲南師範大學	A Trilogy of AI Applications in University-Enterprise Collaboration 高校與企業合作中的AI教育應用三部曲
S2-F	WU Yunxuan 吳蘊萱	The Education University of Hong Kong 香港教育大學	A Digital Journey of One Outsourcing Educator: A Mixed Method Research of Education Informatization and An Assessment of Pedagogical ICT Tools in Shenzhen 一位外包教育者的數位旅程：深圳教育信息化與教學ICT工具的混合方法研究
S2-G	YANG Zixu 楊紫旭	Henan University 河南大學	The Value, Form, and Direction of Smart Textbook Transformation 智能教材變革的價值、樣態及其路向
S2-H	ZHAO Huichen 趙慧臣	Henan University 河南大學	Student Knowledge Innovation Community in the Context of Generative AI: Enhancing the Quality of Human-Machine Collaborative Innovation 生成式人工智能背景下學生知識創新共同體：提升人機協同創新的質量
S2-I	ZHU Lingyun 朱凌芸	Zhejiang University 浙江大學	Exploring Future Science Education Scenarios Based on Spatial Computing and Generative AI: Extension and Innovation of Learning Spaces 基於空間計算和生成式人工智能的未來科學教育場景探索：學習空間的延展與創新

Parallel Session III

Science Education in the Age of AI

分論壇 3：人工智能時代的科學教育

Time: 10:00 AM-12:00 PM, Saturday, May 10th, 2025

Location: D3-LP-07, The Education University of Hong Kong

時間：2025年5月10日（星期六）上午10:00-12:00

地點：香港教育大學 D3-LP-07

Introduction

This sub-forum takes "Science Education in the Era of Artificial Intelligence" as its core and conducts discussions centered around the innovative application of AI technology in science education. The forum focuses on the systematic changes brought about by artificial intelligence in aspects such as curriculum design, learning support, assessment methods, and the transformation of teachers' roles. It showcases the practical approaches and potential of AI in basic education and the cultivation of interdisciplinary scientific literacy. Experts from the education sector, the scientific research community, and the industry will jointly explore the theoretical basis, innovative methods, and future trends of artificial intelligence empowering science education.

簡介

本分論壇以「人工智能時代的科學教育」為核心，圍繞AI技術在科學教育中的創新應用展開探討。論壇聚焦人工智能在課程設計、學習支持、評估方式、教師角色轉變等方面帶來的系統性變革，展示其在基礎教育與跨學科科學素養培養中的實踐路徑與潛力。來自教育界、科研界與產業界的專家將共同探討人工智能賦能科學教育的理論基礎、創新方法與未來趨勢。

Main Topics

- The Deep Integration of Artificial Intelligence Technology in Science Courses and Teaching Innovation
- AI Empowering the Transformation of Scientific Learning Approaches and the Enhancement of Learning Outcomes
- Integration Paths of Interdisciplinary Scientific Literacy and AI Education for the Future
- The Evolution of Teachers' Roles and the Reconstruction of Teaching Decision-Making Mechanisms under AI Support
- Building an AI Ecosystem for Science Education: System Platforms, Assessment Mechanisms, and Educational Equity

主要議題

- 人工智能技術在科學課程中的深度融合與教學創新
- AI賦能科學學習方式轉變與學習成效提升
- 面向未來的跨學科科學素養與AI教育的整合路徑
- 教師在AI支持下的角色演變與教學決策機制重構
- 構建科學教育AI生態：系統平台、評估機制與教育公平

Invited Speaker

Professor Xiang'en Hu Hong Kong Polytechnic University

Creativity in Practice: Exploring Student Engagement with AI-Supported Learning

特邀嘉賓

胡祥恩教授 香港城市大學

實踐中的創造力：探討學生在智能輔助學習中的參與情況

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S3-A	HU Weiping 胡衛平	Shaanxi Normal University 陝西師範大學	High-Quality Development of Science Education in the Age of AI 人工智能時代科學教育高質量發展
S3-B	LAM William 林威廉	Education Bureau, Hong Kong SAR, China 香港特別行政區教育局	From Policy to Practice: Promoting Innovation in Junior Secondary Science Teaching through AI-Assisted Instruction 從政策和實踐：透過人工智能輔助教學推動初中科學科的教學創新
S3-C	HE Juhou 何聚厚	Shaanxi Normal University 陝西師範大學	From Digitalization to Intelligentization: Practical Ideas and Pathways for Intelligent Teaching Innovation Design 從數位化到數智化：數智賦能教學創新設計實踐思路與途徑
S3-D	WAN Zhihong 萬志宏	The Education University of Hong Kong 香港教育大學	Toward More Systematic Application: Theory and Practice of SWEETIE AI-enhanced School STEM Learning Management System 邁向更系統化的應用：SWEETIE AI增強學校STEM學習管理系統的理論與實踐
S3-E	LIU Jun 劉君	iFlytek, Inc 科大訊飛	Exploring the Path of AI in Primary School Science Education 人工智能助力小學科學教育探索之路
S3-F	WU Siu Wai 胡少偉	The Education University of Hong Kong 香港教育大學	The Response of Hong Kong's Primary and Secondary Science Education to AI 香港中小學科學教育面對人工智能的應變
S3-G	HAN Kuikui 韓葵葵	Chongqing Normal University 重慶師範大學	Hot Topics and Trends in International Empirical Research on AI-Enabled Science Education 國際人工智能賦能科學教育實證研究的熱點主題和發展趨勢
S3-H	ZHANG Yang 張陽	Shaanxi Normal University 陝西師範大學	AI-Enabled Thinking-Based Scientific Inquiry: A Talent Cultivation Model for Technological Innovation in Comprehensive Practical Activities AI賦能的思維型科學探究：綜合實踐活動中科技創新人才培養模式

Parallel Session IV Large Language Model Enabled Computing Education

分論壇 4：大語言模型賦能的計算教育

Time: 1:00-3:00 PM, Saturday, 10 May, 2025

Location: D1-LP-02, The Education University of Hong Kong

時間：2025年5月10日（星期六）下午1:00-3:00

地點：香港教育大學 D1-LP-02

Introduction

This forum focuses on computational education empowered by large language models. It brings together a number of cutting-edge research and practical explorations, covering research directions such as teaching plan generation, intelligent teaching assistance, personalized teaching according to students' aptitudes, automatic assessment, and knowledge annotation. The forum centers on teacher innovation, learner characteristics, and accurate evaluation, demonstrating the multi-dimensional empowerment of large language models in the teaching and learning process, as well as in student support and educational equity. It aims to help build a more efficient, equitable, and futuristic new ecosystem for computational education.

簡介

本論壇聚焦大語言模型賦能下的計算教育，匯聚多項前沿研究與實踐探索，涵蓋教案生成、智能教學輔助、個性化因材施教、自動測評與知識標注等研究方向。論壇聚焦於教師創新、學習者特徵與精準評價，展示大語言模型在教與學過程中、學生支持與教育公平中的多維賦能，助力構建更高效、更公平、更具未來感的計算教育新生態。

Main Topics

- The Innovative Mechanism of Large Language Models (LLMs) in Curriculum Development and the Generation of Teaching Content
- Cognitive Modeling Based on LLM and Simulation of Students' Individual Differences
- Research and Practice on AI-assisted Professional Development of Teachers and Teaching Adaptability
- The Integrated Innovation of Educational Knowledge Graphs and Generative Models
- Application and Evaluation of the AI Education Framework for Primary and Secondary Schools and Higher Education Scenarios
- Analysis of Vulnerabilities in Automated Assessment and Discussion of Defense Strategies

主要議題

- 大語言模型（LLM）在課程開發與教學內容生成中的創新機制
- 基於 LLM 的認知建模與學生個性差異模擬
- AI 輔助教師專業發展與教學適應性的研究實踐
- 教育知識圖譜與生成模型的融合創新
- 面向中小學與高等教育場景的 AI 教育框架應用與評估
- 自動化評估中的脆弱性分析與防禦策略探討

Invited Speaker

Professor MIAO Qiguang Xidian University

AI Empowers High-Quality Development of Higher Education

特邀嘉賓

苗啟廣教授 西安電子科技大學

人工智能賦能高等教育高質量發展

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S4-A	CHEN Jingyuan 陳靜遠	Zhejiang University 浙江大學	Simulating Students with Diverse Cognitive Levels Using LLM-based Agents 基於LLM的代理模擬不同認知水平的學生
S4-B	WANG Wei 王偉	Northeast Normal University 東北師範大學	Teacher Education Large Models and Their Support for Pre-service Teacher Development 教師教育大模型及對職前教師發展支持研究
S4-C	MA Haiping SONG Siyu 馬海平 宋思宇	Anhui University 安徽大學	Automated Knowledge Concept Annotation for Educational Exercises: A Knowledge Graph and LLM Synergistic 教育練習的自動化知識概念註釋：知識圖譜與LLM協同框架
S4-D	JIA Tong 賈同	Henan University 河南大學	The Impact of AI on K12 Students' Academic Achievement: A Case Study of a Programming Projec 人工智能對K12學生學業成就的影響研究——基於一項編程項目案例
S4-E	GAO Yujie 高雨婕	Zhejiang University 浙江大學	Design of a Generative AI Framework for Personalized Learning Situation Generation 個性化學習情境生成的生成式AI框架設計
S4-F	ZENG Xiaoli 曾小麗	Jinan University 暨南大學	LessonPlan-Agent: A Multi-Role Agent Framework Leveraging LLMs for Automatic Lesson Plan Generation LessonPlan-Agent：基於LLM的多角色代理框架自動生成教案
S4-G	LI Xueyi 李薛毅	Jinan University 暨南大學	Unveiling Vulnerabilities in LLM-based Automatic Short Answer Grading 揭示基於LLM的自動簡答評分的脆弱性

Parallel Session V

Ethics and Norms of AI Technology

分論壇 5：人工智能技術的倫理與規範

Time: 1:00-3:00 PM, Saturday, 10 May, 2025

Location: D1-LP-04, The Education University of Hong Kong

時間：2025年5月10日（星期六）下午1:00-3:00

地點：香港教育大學 D1-LP-04

Introduction

Against the backdrop of the rapid development of artificial intelligence (AI) technology, this forum delves deeply into ethical issues and social responsibilities. Through academic research and practical cases, it analyzes the normative challenges that AI faces in various fields such as education, technological applications, and social governance. The forum aims to promote the construction of an AI development path that integrates value orientation and technical controllability.

簡介

在人工智能技術迅猛發展的背景下，本論壇圍繞倫理問題與社會責任展開深入探討。透過學術研究與實踐案例，解析人工智能在教育、技術應用及社會治理等多領域面臨的規範性挑戰，推動構建兼具價值導向與技術可控性的AI發展路徑。

Main Topics

- Explore the ethical issues triggered by the application scenarios of generative artificial intelligence in education and society, and strengthen the ethical awareness and judgment of users
- Study the fairness, transparency, and accountability mechanisms in the development and use of AI technology, and enhance the ethical literacy of teachers, students, and technology developers
- Explore how to integrate ethical education into the curriculum system of artificial intelligence literacy, and promote the positive interaction between the development of AI technology and social values
- Promote the ethical governance framework and regulatory mechanisms for artificial intelligence, and improve the construction of AI policy systems as well as security and compliance systems

主要議題

- 探討生成式人工智能在教育與社會中的應用場景中所引發的倫理議題，強化使用者倫理意識與判斷力
- 研究AI技術開發與使用中的公平性、透明性與責任機制，提升教師、學生及技術開發者的倫理素養
- 探索倫理教育如何融入人工智能素養課程體系，推動AI技術發展與社會價值之間的良性互動
- 推進人工智能倫理治理框架與監管機制，完善AI政策制度與安全合規體系建設

Invited Speaker

Dr. Alberto Sols Universidad Europea de Madrid

A Systems Approach to Leveraging Artificial Intelligence for a Highly Personalized and Effective

特邀嘉賓

Alberto Sols博士 馬德里歐洲大學

運用系統方法，利用人工智能實現高度個性化與有效的高等教育

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S5-A	WU Yonghe 吳永和	East China Normal University 華東師範大學	Research on AI Technology Standards for Minors: From the Perspective of Ethics and Standards 面向未成年人的人工智能技術規範研究——基於倫理與標準的視角
S5-B	LAN Guoshuai 蘭國帥	Henan University 河南大學	Integrating Ethical Knowledge in Generative AI Education: Constructing the GenAI-TPACK Framework for University Teachers' Professional Development 生成式AI教育中的倫理知識整合：構建大學教師專業發展的GenAI-TPACK框架
S5-C	DAI Yun 戴韻	The Chinese University of Hong Kong 香港中文大學	Fostering Epistemic Insights into AI Ethics: An Interdisciplinary Approach to AI Literacy 培養AI倫理的認知洞察：跨學科的AI素養方法
S5-D	GUO Shengnan 郭勝男	Yangzhou University 揚州大學	Formation Mechanism and Guidance Strategies of Students' Privacy Protection Behaviors in Learning Analytics 學習分析中學生隱私保護行為形成機理與引導策略研究
S5-E	XI Yuqing 席宇晴	Henan University 河南大學	Ethical Risks of AI and Their Regulation 人工智能的倫理風險及其規制
S5-F	YU Dongxing 于東興	Sanda University 上海杉達學院	The Effectiveness of AI-Driven Chatbots in Providing Emotional Support in Mental Health Interventions AI驅動的聊天機器人在心理健康干預中提供情感支持的有效性
S5-G	XIAO Yumin 肖玉敏	East China Normal University 華東師範大學	Cultivating Students' AI Literacy and Educators' Practical Choices 培養學生的人工智能素養與教育者的實踐選擇
S5-H	LIU Bowen 劉博文	Central China Normal University 華中師範大學	Development and Implementation of AI Competency Framework for Students 學生AI能力框架的開發與實施

Parallel Session VI

AI Writing and Assessment

平行會議6：人工智能寫作與評估

Time: 1:00-3:00 PM, Saturday, 10 May, 2025

Location: D3-LP-07, The Education University of Hong Kong

時間：2025年5月10日（星期六）下午1:00-3:00

地點：香港教育大學 D3-LP-07

Introduction

This forum focuses on the cutting-edge issues of artificial intelligence technology in writing teaching and evaluation within the field of educational technology. It explores the application potential of AI in improving the quality of the writing process, enhancing the student feedback mechanism, and innovating assessment forms. The forum invites experts and scholars from multiple universities to conduct in-depth exchanges on topics such as the use of artificial intelligence writing tools, personalized feedback mechanisms, teacher teaching assistance, and academic integrity.

簡介

本論壇聚焦於教育技術領域中人工智能技術在寫作教學與評價方面的前沿議題，探討AI在提升寫作過程質量、增強學生反饋機制與創新評估形式方面的應用潛力。論壇邀請來自多所高校的專家學者圍繞人工智能寫作工具的使用、個性化反饋機制、教師教學輔助及學術誠信等話題開展深入交流。

Main Topics

- The Application of Artificial Intelligence in the Writing Process:** Focusing on the practical role of AI tools in writing teaching, this explores the functions of AI in aspects such as text generation, structural optimization, and language feedback, as well as the integration paths with teaching.
- The Reshaping of Evaluation Methods by Generative Artificial Intelligence:** Analyze the advantages and challenges of AI in assisting with composition scoring, judging language quality, and enhancing the fairness and efficiency of evaluation.
- Research on the Association between AI Writing and Students' Learning Behaviors:** Explore the influence mechanism of AI-assisted writing tools on students' learning strategies, language acquisition, self-regulation, and the improvement of writing abilities.
- The Role Transformation of Teachers in the Era of AI Writing:** Reflect on how teachers position their teaching responsibilities in the context of AI-dominated writing support, and improve their teaching quality and ethical judgment.

主要議題

- 人工智能在寫作過程中的應用：聚焦AI工具在寫作教學中的實際作用，探討其在生成文本、結構優化、語言反饋等方面的功能與教學融合路徑。
- 生成性人工智能對評價方式的重塑：分析AI在輔助作文評分、語言質量判斷、評價公平性與效率提升方面的優勢與挑戰。
- AI寫作與學生學習行為的關聯研究：探索AI輔助寫作工具對學生學習策略、語言習得、自我調控與寫作能力提升的影響機制。
- 教師在AI寫作時代的角色轉變：反思教師如何定位自身在AI主導寫作支援背景下的教學職責，提升教學質量與倫理判斷力。

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S6-A	BAI Lifang 白麗芳	Hainan University 海南大學	The Demonstration of Creative and Critical Thinking in Students' Use of AI to Generate and Modify Metaphors 學生使用AI生成和修改隱喻中創造性與批判性思維的展示
S6-B	ZHANG Ying 張瑛	Hainan University 海南大學	A Framework for Cultivating and Assessing Critical Thinking in LLMs-Assisted Writing LLM輔助寫作中批判性思維的培養與評估框架
S6-C	ZHOU Shiyao 周世瑤	Hainan University 海南大學	A Case Study of Writing Process Powered by Human and ChatGPT 人類與ChatGPT協作的寫作過程案例研究
S6-D	YANG Yunwen 楊韵雯	The Education University of Hong Kong 香港教育大學	Practical Pathways for Generative AI Technology to Empower Ethnic Minority Cultural Heritage Education 生成式人工智能技術賦能少數民族文化遺產教育的實踐路徑
S6-E	WEN Shiyuan 翁诗媛	The Education University of Hong Kong 香港教育大學	Exploring Investment in AI-Assisted Writing among IELTS Achievers IELTS高分者在AI輔助寫作中的投入探索
S6-F	ZHANG Yue 张越	The Education University of Hong Kong 香港教育大學	Developing GAI Literacies: A Case Study of Two Pre-service Teachers' Investment in Learning-to-teach Practices Involving GAI 發展GAI素養：兩位職前教師在GAI教學實踐中的投入案例研究
S6-G	LEUNG WING KIU 梁咏苡	The Chinese University of Hong Kong 香港中文大学	Using AI-assisted tools to enhance secondary students' writing performance and metacognition 利用人工智能辅助工具提升中学生写作表现与后设认知

Parallel Session VIII

AI-Enabled Development and Application of Digital Textbooks and Innovative Talent Cultivation

平行會議8：人工智能驅動的數位教材開發與應用及創新人才培養

Time: 1:00-4:00 PM, Saturday, 10 May, 2025

Location: D3-LP-01, The Education University of Hong Kong

時間：2025年5月10日（星期六）下午1:00-4:00

地點：香港教育大學 D3-LP-01

Introduction

This forum focuses on the integrated development of artificial intelligence and educational technology, and mainly explores the enabling paths of AI in digital textbook systems, content innovation, interaction optimization, and the multi-dimensional applications of personalized learning support. The forum aims to showcase cutting-edge research achievements, explore the possibilities and strategies for the digital transformation of educational resources empowered by AI, and promote the in-depth collaboration between educational publishing and high-quality teaching.

簡介

本論壇聚焦人工智能與教育科技的融合發展，重點探討AI在數字教材系統中的賦能路徑、內容創新、交互優化以及個性化學習支持的多維應用。論壇旨在展示前沿研究成果，探索AI賦能下教育資源數字化轉型的可能性與策略，推動教育出版與高質量教學的深度協同。

Main Topics

- Empowering Textbook Innovation with Digital Technologies: Focusing on the Integration and Practice of Cutting-edge Technologies such as Artificial Intelligence and Digital Education in Textbook Content Generation and Teaching Design.
- Artificial Intelligence and Teacher Empowerment: Exploring how teachers can conduct differentiated instruction, precision teaching, and digital content management with the support of AI.
- Research on the Evaluation of Learning Behaviors and Achievements in the Scenarios of Digital Textbooks: Focusing on the Data Tracking of Intelligent Textbooks, the Analysis of Learning Paths, and the Innovation of Evaluation Methods.
- Exploration of the Path for the Development of Digital Textbooks Oriented by Interdisciplinary Literacy and Their Curriculum Integration: Discussing how to optimize textbook content and learning design with the aim of scientific literacy and core competencies.

主要議題

- 數字技術賦能教材創新：聚焦人工智能、數字教育等前沿技術在教材內容生成與教學設計中的融合與實踐。
- 人工智能與教師賦能：探討在AI支援下教師如何開展差異化教學、精準教學及數字內容管理。
- 數字教材場景中的學習行為與成效評價研究：聚焦智能教材數據追蹤、學習路徑分析與評估方式革。
- 跨學科素養導向的數字教材開發與課程融合路徑探索：討論如何以科學素養與核心能力為目標優化教材內容與學習設計。

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S8-A	SU Qimin 蘇啟敏	Guangzhou University 廣州大學	Myths, Risks, and Ethical Boundaries of Educational Evaluation in the Era of Digital Intelligence 數智技術賦能時代教育評價的神話、風險與倫理底線
S8-B	LIU Liyan 柳立言	Ningxia Normal University 寧夏師範大學	Empirical Research on the Application of Interdisciplinary Thematic Learning Activities in Information Technology Courses 跨學科主題學習活動在信息科技課程中應用的實證研究
S8-C	FU Daoming 付道明	Guangdong University of Education 廣東第二師範學院	AI Boosts Teacher Team Construction: The Practice of Guangdong Second Normal University 人工智能助推教師隊伍建設的廣東二師實踐
S8-D	LI Rui 李睿	Yunnan Normal University 雲南師範大學	Practical Pathways for Generative AI Technology to Empower Ethnic Minority Cultural Heritage Education 生成式人工智能技術賦能少數民族文化遺產教育的實踐路徑
S8-E	DU Yuxia 杜玉霞	Guangzhou University 廣州大學	Generative AI Empowers the Innovative Development and Application of Digital Textbooks 生成式人工智能賦能數位教材創新發展與應用
S8-F	JIANG Yuxin 姜雨欣	Guangzhou University 廣州大學	Development Pathways of AI Digital Textbooks in South Korea 韓國AI數位教材的發展路徑
S8-G	CAO Yuxing 曹宇星	Guangdong Polytechnic Normal University 廣東技術師範大學	Construction and Relationship Study of a Teacher Collective Efficacy Optimization Model in Online Learning Spaces 網絡學習空間中教師集體效能優化模型構建及關係研究
S8-H	TONG Yuyao 童玉瑤	Guangzhou University 廣州大學	Design and Evaluation of an Online Knowledge Building Community Based on Visual Learning Analytics 基於可視化學習分析的線上知識建構社區設計與評測
S8-I	WEI Chenjie 魏晨捷	Guangzhou University 廣州大學	From "Tool Use" to "Collaborative Creation": Technological Embodiment and Cognitive Transformation in AI Short Film Production from an Interdisciplinary Perspective 從“工具使用”到“協同創作”：跨學科視域下AI短片創作的技術具身與認知轉變研究
S8-J	ZOU Juanwei 鄒鶯薇	Guangzhou University 廣州大學	Innovative Practices of Film and Television Education in the Digital Intelligence Era: A Case Study of Screenwriting Courses 數智時代影視教育教學實踐模式創新研究——以影視編劇類課程為例
S8-K	GAO Xuemin 高學敏	Guangzhou University 廣州大學	Empowering Primary School Students' Computational Thinking Development: Scaffolding Design and Evaluation Based on Mind Maps 賦能小學生計算思維發展：基於思維導圖的支架設計與評價
S8-L	LOU Hongyu 婁紅玉	Guangzhou Jiangnan Foreign Language School 廣州江南外國語學校	Interdisciplinary Thematic Learning in Chinese Language Enabled by Digital Intelligence: "Writing Biographies for Family Figures" 數智賦能的語文跨學科主題學習——「為家族人物立傳」

Speakers and Their Speech Topics 演講者及其演講題目

No.	Presenter 演講者	Affiliation 單位	Title of Speech 演講標題
S8-M	XU Qianwen 許倩雯	Guangzhou University 廣州大學	Research on the Design of Teaching Agents to Enhance University Students' English Writing Skills 提升大學生英語寫作能力的教學智能體設計研究
S8-N	DING Simeng 丁思萌	Guangzhou University 廣州大學	Research on the Design of Homework Agents to Promote Thinking Development 促進思維發展的作業智能體設計研究



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Agenda 議程

Time	Event	Location	Host
12:30-13:00 Registration		D1-LP	
13:00-13:10 Opening Speech	Professor May Hung Cheng, Vice President of Academics, The Education University of Hong Kong	D1-LP-04	Professor Minjuan Wang
14:30-17:00 Workshop I Innovation Education (for K-12 teachers and students)	Ms. Anny Chan, Harvard University Ms. Rongbing Shen, Harvard University Ms. Clara Yue Jia, Stanford University	D1-LP-03	Ms. Anny Chan
13:10-14:30 Workshop II Writing and Publishing in High-impact Journals	Professor Mutlu Cukurova, EiC of British Journal of Education Technology Professor Minjuan Wang, EiC of IEEE-Transactions on Learning Technologies Professor Kin-fung Chiu, EiC of Interactive Learning Environments Dr. Weipeng Yang, EiC of the Journal of Research in Childhood Education; Professor Hui Li, EiC of AI, Brain and Child Dr. Ju Seong Lee, EiC of Innovation in Language Learning and Teaching	D1-LP-04	Dr. Weipeng Yang Dr. Ju Seong Lee
17:00-18:30 Workshop III Leveraging Collaborative Generative AI for Design and Prototyping in Innovation and Entrepreneurship Education	Dr. Paul Kim, Chair of the International Expert Committee on Education Technology, The World Bank	D1-LP-02	Dr. Fridolin TING
18:00-19:00 Welcome Reception		Corridor	

Time	Event	Location	Host
08:45-09:00 Registration		D1-LP	
09:00-09:10 Opening Remarks and Welcome	Professor John Chi-Kin Lee, President, Director of the Academy for Applied Policy Studies and Education Futures (AAPSEF), EdUHK 09:10-09:20 Mr ChangXue Yu, Director, China Center for International People-to-People Exchange, Ministry of Education, China (recorded speaking) 09:20-09:30 Professor Minjuan Wang, Co-Director of Global Institute for Emerging Technologies (GIET), EdUHK 09:30-09:40 Professor John Clifford Mitchell, Stanford University 09:40-09:50 Ms. Anny Chan, Harvard University	D1-LP-02	Professor Minjuan Wang Mr. Xuefan Jordan Li
09:50-10:30 GIET Launch Ceremony		Corridor	
10:30-10:40 Coffee Break		Corridor	
10:40-11:10 Keynote Speech	Professor John Chi-Kin Lee, President, Director of the Academy for Applied Policy Studies and Education Futures (AAPSEF). EdUHK <i>Ethics and Values of Artificial Intelligence: Exploration of values education implications</i> 11:10-11:40 Professor John Clifford Mitchell, Stanford University <i>Generative AI for Collaborative Learning and Creativity</i>	D1-LP-04	Dr. Yin Yang Dr. Zhengyuan Wei
11:40-12:00 Coffee Break		Corridor	
12:00-14:00 Lunch - Ticketed Guests Only			
14:00-14:40 Keynote Speech	Dr. Shijin Wang, Vice CEO of iFlytek, Inc. <i>Latest Developments and Typical Applications of the Xinghuo Large Model in Education</i>	D1-LP-04	Dr. Yin Yang Dr. Zhengyuan Wei
14:40-15:30 Professor Yew-Soon Ong, Nanyang Technological University			
15:30-16:20 Dr. Paul Kim, World Bank	<i>Teaching AI, Learning with AI: Multiple Perspectives on Education's Future</i> <i>Education Reimagined: Navigating the AI Disruption</i>		
16:20-17:00 Professor Qing Li, Hong Kong Polytechnic University			
17:00-17:10 Closing Remarks and Logistics	<i>KCUBE: A KG-based University Curriculum Framework for Student Advising and Career Planning</i>		Professor Minjuan Wang
18:30-20:00 President's Dinner - Invited Guests Only	Professor Minjuan Wang and Dr. Daner Sun, The Education University of Hong Kong	Science Park	
	For transportation arrangement, please check Shuttle schedule and boarding location online.		

Time	Event	Location	Host
08:00-09:00	Registration	D1-LP	
09:00-09:15	Opening Remark Professor Chetwyn Che Hin Chan, Vice President of Research and Development, EduHK	D1-LP-02	Dr. Daner Sun Dr. Yin Yang
09:15-09:45	Keynote Speech h Professor Chris Dede, Harvard University and Senior Advisor of Global Institute for Emerging Technologies (GIET), EduHK <i>GenAI in Education: The Promises and the Perils</i>		
09:45-10:00	Coffee Break		
10:00-10:30	Parallel Session I AI for Teaching and Learning, D1-LP-02 Chair: Dr. Liping Deng, Dr. Jijian Lu Invited Speaker Professor Leonel Caseiro Morgado, Universidade Aberta & INESC TEC <i>Redesigning Education as a Cognitive Ecosystem: Practical Insights into Emerging Roles for Educators</i>	Parallel Session II Talent Development & Entrepreneurship in the Age of AI, D1-LP-04 Chair: Dr. Dou Diya, Professor Xuesong Zhai Keynote Speaker Professor Tina Grotzer, Harvard University <i>Supporting Adaptive Expertise: What Does It Involve and Why Is it Important for the Workforce in a Complex and Changing World?</i>	Parallel Session III Science Education in the Age of AI, D3-LP-07 Chair: Dr. Daner Sun, Dr. Yang Zhang Invited Speaker Professor Xiangen Hu, Hong Kong Polytechnic University <i>Creativity in Practice: Exploring Student Engagement with AI-Supported Learning</i>
10:30-12:00	Paper Presentation S1-A, S1-B, S1-C, S1-D, S1-E, S1-F, S1-G, S1-H, S1-I, S1-J, S1-K	Paper Presentation S2-A, S2-B, S2-C, S2-D, S2-E, S2-F, S2-G, S2-H, S2-I	Paper Presentation S3-A, S3-B, S3-C, S3-D, S3-E, S3-F, S3-G, S3-H
12:00-13:30	Lunch Break		
13:00-13:30	Parallel Session IV Large Language Model Enabled Computing Education, D1-LP-02 Chair: Professor Guandong Xu, Professor Minghao Yin Invited Speaker Professor Qiguang Miao <i>AI Empowers High-Quality Development of Higher Education</i>	Parallel Session V Ethics and Norms of Artificial Intelligence Technology, D1-LP-04 Chair: Dr. Yuling Zhang, Professor Yonghe Wu Invited Speaker Dr. Alberto Sols, Universidad Europea de Madrid <i>A Systems Approach to Leveraging Artificial Intelligence for a Highly Personalized and Effective Higher Education</i>	Parallel Session VI AI Writing and Assessment, D3-LP-07 Chair: Dr. Yue Zhang, Professor LiFang Bai Invited Speaker Paper Presentation
13:30-15:00	Paper Presentation S4-A, S4-B, S4-C, S4-D, S4-E, S4-F, S4-G	Paper Presentation S5-A, S5-B, S5-C, S5-D, S5-E, S5-F, S5-G, S5-H	Paper Presentation S6-A, S6-B, S6-C, S6-D, S6-E, S6-F, S6-G
15:00-15:30	Coffee Break		
15:30-16:00	Panel Discussion Challenges and Opportunities in Technology and Future Skills, D1-LP-02 Moderator: Dr. Yue Wang Prof. CHAN Chun Bun Henry, Hong Kong Polytechnic University Prof. Muilu Cukurova, University College London Ms. Rui Zhao, NetDragon Websoft Holdings Limited	Parallel Session VII AI-Enabled Development and Application of Digital Textbooks and Innovative Talent Cultivation, D3-LP-01, 13:00-16:00 Chair: Professor Yuxia Du Paper Presentation	
16:00-17:00	Closing Keynote: The Road Ahead for AI in Education Professor Ping Li, Hong Kong Polytechnic University <i>New Opportunities in the Integration of Humanities, Science, and Education</i>	D1-LP-02	Ms. Clara Yue Jia
17:00-18:00	Closing Remarks and Awards Ceremony Professor Minjiuan Wang, The Education University of Hong Kong <i>Emerging Technology and Talent Development</i>		Happiness Cuisine
19:00-21:30	Dinner Gala - Invited and Ticketed Guests Only For transportation arrangement, please check Shuttle schedule and boarding location online.		Restaurant, Science Park

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Parallel Session 2 分論壇 2	DOU Diya, QIAN Haiyan 竇迪婭、錢海燕	The Hong Kong Polytechnic University, The Chinese University of Hong Kong 香港理工大學、香港中文大學
Parallel Session 3 分論壇 3	LIM Cher Ping SUN Danner, SUN Jin 林質彬、孫丹兒、孫瑾	The Education University of Hong Kong, University of Macau 香港教育大學、澳門大學
Parallel Session 4 分論壇 4	CHONG Yee Ling XU Guandong 張予菱、徐貫東	The Education University of Hong Kong 香港教育大學
Parallel Session 5 分論壇 5	PEI Leisi, ZHOU Mingming 裴雷絲、周明明	The Education University of Hong Kong, University of Macau 香港教育大學、澳門大學
Parallel Session 6 分論壇 6	LIN Dan, YAN Jing 林丹、延晶	The Education University of Hong Kong 香港教育大學
Parallel Session 7 分論壇 7	KWOK Ching Man Christine Singh Manpreet 郭靜雯、Singh, Manpreet	The Education University of Hong Kong 香港教育大學

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