香港珠海學院
HONG KONG
CHU HAI COLLEGE

RESEARCH BULLETIN
研究通訊

AI, FINTECH and SMART LIVING
人工智能、金融科技與美好生活



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President

ZHANG JANE

校長

張 珍



PRESIDENT'S MESSAGE

It is my pleasure to welcome you to the inaugural issue of the Hong Kong Chu Hai College Research Bulletin, our new annual newsletter. This bulletin showcases research conducted across Hong Kong Chu Hai College — in our Faculties, Ng Teng Fong · Sino Group Belt and Road Research Institute, and our Research Centres.

The Bulletin aims to highlight research that is both methodologically rigorous and practically relevant: work that can inform teaching, be shared with partners in the Greater Bay Area, and be translated into industry and community practice.

Encouragingly, the College performed strongly in the recent Research Grants Council (RGC) funding cycle. These awards represent more than a numerical achievement. They affirm the scholarly rigour of our faculty members in a highly competitive funding environment and show that our research is increasingly aligned with the priorities shaping Hong Kong and the wider region: artificial intelligence, financial technology, and smarter, healthier ways of living.

The projects featured in this first issue — ranging from AI-enabled health screening and market forecasting to archival research on frontier history and studies of Belt and Road connectivity — exemplify the breadth of scholarly inquiry we seek to nurture. Our location situated within easy reach of the Northern Metropolis and the Greater Bay Area offers an ideal gateway to broader collaboration and impact. Moving forward, we will deepen partnerships with universities, research institutes, and industries, enabling funded projects to leverage cross-border talent, data, and experimental platforms, while ensuring our research centres can serve as vibrant hubs for collaboration rather than stand-alone units. I further encourage colleagues to embed research impact into project design from the outset, and the College will continue to strengthen support across grant applications, compliance, and knowledge transfer.

Looking ahead, we remain committed to strengthening proposal quality, fostering interdisciplinary collaboration, and driving knowledge transfer, ensuring that our funded research enriches teaching, empowers industry, and creates tangible value for the wider community. I trust this Bulletin will serve as a regular window into our progress, and I warmly invite all colleagues to share their research work in future editions.

ZHANG Jane
President

校長寄語

很高興為大家呈現香港珠海學院全新編撰的年刊《研究通訊》創刊號，本通訊旨在展示學院的科研實力與成果，涵蓋各分科學院、黃廷方 • 信和一帶一路研究院，以及各研究中心。

《研究通訊》具備嚴謹學術方法與實用價值的研究——不僅能裨益教學，更與大灣區夥伴共享成果，進一步轉化為推動產業與社區發展的實踐動力。

學院在本輪研究資助局資助撥款中展現出令人鼓舞的表現。這些獲批項目不僅是數字上的突破，更彰顯了學院教研人員在競爭激烈的科研資助環境下嚴謹的學術造詣；同時，亦體現出我們的研究領域正緊貼香港及更廣泛地區的發展重點，包括人工智能、金融科技，以及更智慧、健康的現代生活方式。

創刊號收錄的研究項目題材廣泛——由人工智能輔助健康篩查、市場預測，以至邊疆歷史檔案研究及「一帶一路」互聯互通探討，充分展示了我們致力營造的多元學術氛圍。學院毗鄰北部都會區及粵港澳大灣區，為科研工作邁向更廣泛的合作與影響力提供了得天獨厚的優勢。展望未來，我們將進一步深化與各大高等院校、科研機構及業界的合作，善用大灣區跨境人才、數據與科研試驗平台，並推動各研究中心成為發揮協同合作之力，成為開放共融的創新樞紐。我深切期許團隊在項目規劃之初，融入「研究影響力」的宏觀考量；學院亦將全方位強化在科研項目申報、合規管理及知識轉移方面的支援，全面賦能教研團隊創優革新。

展望將來，我們將持續提升研究計劃項目質量、促進跨學科協作，並推動知識轉移，確保獲資助的科研項目成果切實回饋教學、賦能產業並造福社會。我深信《研究通訊》定能成為展示學院科研進展的常設窗口，並誠邀更多同事踴躍分享科研成果，共築學術新篇章。

張 珍
校長

LOOKING AHEAD

前瞻未來

Prof. FUNG Kam-wing
Dean, Faculty of Arts and Social Sciences

馮錦榮教授
文學與社會科學院院長



First published in Guangzhou in 1832, *The Chinese Repository* was arguably the earliest academic newsletter to report on the current status of research in the humanities in China (particularly the Greater Bay Area) of the nineteenth-century bilingual world. After the College was founded in Guangzhou in the autumn of 1947, our first president Professor HUANG Linshu declared that "academic research and its history…should be shared with the world" in the inaugural issue of *The Chu Hai Journal*; since its relocated to Hong Kong in 1949, the College continued publishing the journal and introduced an "Academic News" column. Since I assumed the Deanship of the Faculty of Arts and Social Sciences in August 2023, the members of our faculty have balanced their teaching commitments with a highly successful pursuit of research grants from the RGC. The resulting increase in both the number and the amount of these awards is a true testament to their dedication. By highlighting these successful projects, the new *Research Bulletin* serves as an excellent opportunity for colleagues to learn from one another and share best practices.

1832年於廣州發刊的《中國叢報》可說是十九世紀雙語世界中最早關注中國（特別是大灣區）人文學科研究概況的學術通訊。我校 1947 年秋肇創於廣州，首任校長黃麟書教授在《珠海學報》第一集揭櫫「(學科)研究與整理……(宜)表聞於世」之旨；1949年遷校香江續刊印《珠海學報》，並設「學術消息」的欄目。本人自 2023 年 8 月承乏文學與社會科學院院務以來，院內同人黽勉從事教學之餘，復成功競逐香港研究資助局翊贊研究項目，項目之數與金額迭有增加，實為學院同人致力研究之表徵。今校方編印《研究通訊》，甄選臚列成功案例，勘為同儕取法互鑒之美事。

Prof. CHU Hoi-shan, Paul
Dean, Faculty of Science and Engineering

朱海山教授
理工學院院長



Welcome to this edition of our College's Research Bulletin, celebrating the distinguished scholarly contributions and multi-faceted discoveries of our academic community. As artificial intelligence continues to reshape the landscape of modern inquiry, our researchers at the Faculty of Science and Engineering demonstrate how sophisticated computational paradigms can be translated into profound real-world applications.

Within the synergistic environment of the Faculty of Science and Engineering, we are proud to present in this issue a diverse range of research inquiries unified by their pioneering, transformative applications across vital domains, notably:

- Advanced Dental Medicine: Deploying intelligent diagnostics, high-resolution imaging analytics, and precision-guided treatment protocols to enhance clinical decision-making;
- Trustworthy Artificial Intelligence: Establishing foundational methodologies in algorithmic transparency, robust verification, and ethical governance to guarantee safe, explainable, and responsible deployment;
- Environmental Engineering: Harnessing real-life samples and predictive modelling to optimize ecological stewardship, mitigate climate risks, and preserve critical natural resources for the betterment of our habitat.

By converging domain expertise within the Faculty, our scholars ensure technological innovation remains inherently anchored in scientific rigor and public purpose. We commend our researchers, clinical partners, and collaborators for their unwavering commitment to excellence, and we invite you to engage with these forward-looking breakthroughs. Thank you very much!

歡迎閱讀本期《研究通訊》。本期展示了我們學術團隊所作出的卓越學術貢獻與多元探索成果。隨著人工智能持續重塑現代研究的格局，我們理工學院的研究團隊正展示如何將尖端的運算範式轉化為深遠的現實世界應用。

在理工學院這個協同增效的環境中，我們十分榮幸能在本期通訊中，向各位呈現一系列在學院框架下緊密結合、關鍵領域開創轉型應用的多元研究：

- 先進牙醫學： 運用智慧診斷、高解析度影像分析以及精準導向的治療方案，以提升臨床決策效益;
- 可信賴人工智能： 在演算法透明度、穩健驗證及倫理治理方面建立根本性的方法學，以確保技術部署安全、可解釋且負責任;
- 環境工程： 利用現實生活樣本與預測模型以優化生態管理、減緩氣候風險，並保護關鍵自然資源，從而改善人類棲息環境。

透過匯聚學院內的學術專業，我們的學者以嚴謹的科學、創新的技術為社會謀福祉。我們衷心讚揚各位研究人員、臨床夥伴及合作夥伴對追求卓越的堅定承諾，並誠摯邀請您一同關注這些具前瞻性的突破。謝謝！

Prof. LI Kwok-yiu, Robert
Associate Vice President (Academic and Research)
and Acting Dean, Faculty of Business

李國耀教授
協理副校長(學術及研究)兼署理商學院院長



We are in a unique position in this era. In addition to transforming markets and industries, artificial intelligence and financial technology are also redefining how knowledge is created, disseminated, and applied, as well as how we live and work. The Faculty of Business's strategic research agenda is proudly aligned with the College's Strategic theme of "AI, Fintech, and Smart Living". Several scholars have awarded competitive research grants, covering the entire range of this theme, including AI and markets, trust and transparency in finance, and human wellbeing at work, have been awarded to our faculty members.

Looking ahead, three commitments will guide our future research directions, namely human-centred inquiry, translation of knowledge, and nurturing talent. We believe technology should ultimately be measured by how well it serves people, and that the future of business must be both smarter and more humane. Our insights must travel beyond research articles into boardrooms, classrooms, and policy discussions, where they can shape practice and improve lives. We will keep inspiring and equipping our upcoming generation of academics and business leaders to lead and navigate an era of significant change.

We move forward with our students, alumni, and industry partners to promote healthier workplaces, smarter finance, and a better quality of life for everyone.

我們正身處一個獨特的時代。人工智能和金融科技不僅正在改變市場和產業，更在重新定義知識的創造、傳播和應用方式，以及我們的生活和工作方式。商學院的策略研究議程與學院的策略主題「人工智能、金融科技與美好生活」高度契合。商學院數位教職員均獲得競爭性研究基金，研究範圍涵蓋學院策略主題的各領域，包括人工智能與市場、金融領域的信任與透明度以及職場中的人類福祉等。

展望未來，我們將秉持三大承諾，引導未來的研究方向：以人為本的探究、知識轉化和人才培育。我們堅信，衡量科技的最終標準在於它如何服務於人，而未來的商業必須更加智能，也更加人性化。我們的洞見必須超越學術論文的範疇，走進董事會、課堂和政策討論，從而影響實踐，改善人們的生活。我們將繼續激勵和培養新一代的學者和商業領袖，引領並駕馭這個充滿變革的時代。

我們將與學生、校友和行業夥伴攜手並進，致力於創造更健康的工作場所、更智能的金融環境，並為每個人創造更高品質的生活。

Prof. CHAN Man-hung, Thomas
Director, Ng Teng Fong · Sino Group Belt and Road Research Institute

陳文鴻教授
黃廷方 · 信和一帶一路研究院院長



When we come to research especially that deals with human factors, the concept of objectivity seems to be untenable. Instead the relative term of inter-subjectivity should be more acceptable for understanding the social embeddedness of human behavior and motivations. Objectivity assumes there is something of universal truth and could be identified easily. Universality denies the variety of causing factors and resulting patterns of socially embedded actions and thoughts. It is therefore teleological in nature and like the Hegelian world spirit the truth will reveal on its own or through human agency, but without any freedom of determination by human factors. Inter-subjectivity accepts diversity as the defining characteristics of human society and emphasizes on the importance of innovation or change as the outcome of diversity and the source of civilization progress. The issues involved are not technical, those that could be resolved by advancement in instrumental techniques and technologies. It is basically about ontology and epistemology.

Inter-subjectivity respects diversity coming from the different backgrounds and preferences of the human agents. It does not solve the problem of ultimate truth but takes the dissimilar motivations and orientations of those involved as constituting part of the truth or reality about any social phenomena.

In the study of societal development and especially about Belt and Road or Global South countries, the conceptual/ideological contest between objectivity and inter-subjectivity takes the form of competition between the singular perspective of Anglo-Saxon or the North and the multiple indigenous perspectives of the Global South. More specifically it represents a struggle between (neo)colonialism and decolonization in post colonialism. The difference in the perspectives that have been translated into policies for implementation affect the chance of development of countries taking the different perspectives.

Ng Teng Fong · Sino Group Belt and Road Research Institute (NSBRRI) has insisted on the multiple perspective approach in our teaching and research. We do not exclude the conventional perspective of the North, but treat it critically and equally with other indigenous perspectives from the Global South. We hope to join the worldwide movement of finding a new regime of learning and knowledge in the post-colonial world of multi-polarity.

當我們探討研究——尤其是涉及人為因素（human factors）的研究時，「客觀性」（objectivity）這一概念往往難以立足。相反，使用相對的「互主觀性」（inter-subjectivity，或稱主體間性）概念，能更適切地理解人類行為與動機的「社會嵌入性」（social embeddedness）。「客觀性」假設存在某種普世真理且能被輕易識別；然而，這種普世性否定了社會嵌入式行動與思想在成因上的多樣性以及其所產生的多元模式。因此，它本質上帶有目的論（teleological）色彩，宛如黑格爾式（Hegelian）的「世界精神」（world spirit），暗示真理會自發或透過人類機構顯現，卻完全剝奪了人為因素自主決定的自由。「互主觀性」則承認多樣性是人類社會的本質特徵，並強調創新與變革正是多樣性帶來的成果，亦是文明進步的源泉。這當中所涉及的並非單純可透過工具性技術及科技進步解決的技術性問題，而是根本上的本體論（ontology）與認識論（epistemology）議題。

「互主觀性」尊重來自不同背景與偏好的行動者所展現的多元性。它雖未徹底解決「終極真理」的難題，卻將參與者各不相同的動機與取向，視為構成任何社會現象之真理或客觀現實不可或缺的一部分。

在社會發展研究——特別是關於「一帶一路」或「全球南方」（Global South）國家的研究中，「客觀性」與「互主觀性」之間的概念及意識形態之爭，展現為盎格魯-撒克遜（Anglo-Saxon）或全球北方（North）的單一視角，與全球南方多元本土視角之間的較量。更具體而言，這代表了（新）殖民主義與後殖民主義下「去殖民化」（decolonization）之間的抗爭。這些視角上的差異一旦轉化為實施政策，將直接影響採用不同視角之國家的發展前景。

黃廷方 • 信和一帶一路研究院教學與研究中，始終堅持多元視角的方法。我們並不排斥北方的傳統視角，而是以批判且平等的態度將其與全球南方的其他本土視角一視同仁。我們期望能加入這場全球性運動，在多極化的後殖民世界中，共同探索一套全新的學習與知識體系。

RESEARCH HIGHLIGHTS
研究亮點

How Tea Shaped Empires: Rewriting Frontier History through Archives and Field Study

茶香如何塑造帝國：通過檔案與實地考察重寫邊疆歷史



Dr. WANG Yongxi
Assistant Professor
Department of Chinese Literature
王永曦博士
中國文學系助理教授

Dr. WANG Yongxi's research offers a new perspective on the Tea-Horse Trade. It shows that tea was not only crucial to Ming frontier governance but also profoundly shaped long-distance trade between inland China and the borderlands. By combining archival research with fieldwork, the project reconstructs the trade networks that connected diverse communities across the northwestern frontier, inland China, and Inner Asia, thereby presenting a new picture of the region's history.

王永曦博士的研究為「茶馬貿易」揭示了全新視角，展現茶葉不僅在明朝的邊疆治理中發揮關鍵作用，更深刻影響明代內地與邊地的貿易。項目結合檔案研究與實地考察，重新梳理貿易網絡，呈獻出連接西北邊疆、中國內陸與內亞地區多元社群的全新區域歷史圖景。

> Tea was more than a commodity – it was a connection for trade, diplomacy, and frontier governance.
> 茶葉超越商品範疇，成為貿易往來、外交關係及邊疆治理的網絡。

Tea is one of the most familiar features of everyday life in Chinese culture. Historically, however, it was far more than a common beverage. Research by Dr. WANG's Yongxi of the Department of Chinese Literature shows that tea played a pivotal role in trade, diplomacy, and frontier governance during the Ming dynasty.

Supported by the Research Grants Council's Faculty Development Scheme (FDS) (UGC/FDS13/H03/24), Dr. WANG's project examines the historical Tea-Horse Trade, a state-directed system in which the Ming government exchanged tea for horses. Although earlier scholarship largely treated the system as a mechanism for military provisioning, Dr. WANG's research places it within a complex commercial network extending from northwestern China to Inner Asia. This network connected government institutions, frontier ethnic communities, and religious groups across the region.

茶是中華文化中最為人熟悉的日常事物之一，但在歷史上，它絕非僅止於一般日常飲品。根據中國文學系王永曦博士的研究，茶葉在明代的貿易往來、外交關係以及邊疆治理中，均扮演著舉足輕重的角色。

在研究資助局教員發展計劃 (UGC/FDS13/H03/24) 的資助下，王博士的探討項目著眼於歷史悠久的「茶馬貿易」——一個由明朝政府主導、以茶葉交換馬匹的交易體系。早期學術觀點多將其視為一項軍事補給機制，但王博士的研究揭示，「茶馬貿易」實際上是連通中國西北部至內亞地區的複雜貿易網絡中的一部分，緊密連接了區域內的政府機構、邊疆族群及宗教團體。

Interweaving Archives and Fieldwork: Reconstructing a Multi-Dimensional Borderland

By bringing previously overlooked sources to light, Dr. WANG reassesses both the scale and the historical significance of the Ming Tea-Horse Trade. Challenging the conventional view that the trade declined during the middle and late Ming periods, his research shows that the volume of tea transported from inland China to the northwestern frontier increased fivefold within just fifty years from the mid-Ming period onward. This finding demonstrates that long-distance tea trade between the Ming empire and Inner Asia continued to flourish from the late sixteenth century. It also reveals that the Ming court actively used tea, which was highly valued by Inner Asian nomadic peoples, in responding to Mongol incursions into the Amdo region, with some success.

The project combines the close reading of archival sources with fieldwork. In Gansu and Qinghai, Dr. WANG visited Tibetan Buddhist monasteries, mosques, historical sites, local archives and libraries. These investigations not only yielded a wealth of valuable local documents but also deepened his understanding of tea's far-reaching influence on northwestern society. They further show that history is preserved not only in written records but also in the landscapes, community cultures, and cultural heritage that endure today. Through academic publications, international collaboration, and public engagement, the project brings new perspectives on China's frontier history to a wider readership and invites renewed consideration of how tea has continued to shape history up to the present.

Future Research Outlook

Building on this combination of archive research and fieldwork, the project will continue to investigate historical trade routes and frontier societies. Its next phase will include field research in Anhua County, Hunan Province, one of the most important historical centres of border-tea production. By integrating textual evidence with on-site investigation, the project seeks to deepen understanding of the long-distance trade and cultural exchanges between inland China and Inner Asia.

檔案與實地考察交織：重現立體的邊疆地區

王博士透過發掘過往較少受到關注的文獻資料，重新勾勒明代茶馬貿易的規模與歷史意義。研究突破「明代中後期茶馬貿易衰敗」的傳統觀點，指出自明代中葉起，從中國內陸輸往西北邊疆的茶葉數量在短短五十年間增長五倍。這項重要發現顯示，自 16世紀後期起，明朝與內陸亞洲之間的長途茶葉貿易持續蓬勃發展；明朝亦積極運用深受內亞遊牧民族喜愛的茶葉，回應蒙古勢力對安多地區的侵擾，並取得一定成效。

本項目結合檔案文獻的解讀與實地考察。王博士通過對甘肅、青海等地展開的實地調研，走訪藏傳佛教寺院、清真寺、歷史遺址及地方檔案館與圖書館，不僅收穫大量珍貴的地方文獻，更能體悟到茶葉對西北社會的深遠影響。歷史不僅靜態地保存在書本裡，更鮮活地存在於延續至今的自然地貌、社區文化與文化遺產之中。透過學術出版、國際合作及公眾參與活動，這項研究正把中國邊疆歷史的新視角帶給更廣泛的讀者，讓更多人重新認識茶葉如何持續不斷地塑造歷史——這一過程持續至今。

持續深入：後續研究規劃

研究項目將結合文獻的解讀及進一步的實地考察，持續探索歷史貿易路線與邊疆社會，其中包括前往湖南省安化縣進行調研——該地為歷史上最重要的「邊茶」產地之一。項目旨在結合文獻史料與現場實地研究，深化對橫跨中國內陸與內陸亞洲之間的長途貿易與文化交流的理解。



Dr. WANG presenting research on the Tea-Horse Trade and frontier societies of China
王博士介紹中國茶馬貿易與邊疆社會的研究

Research Impact

- Explores the historical Tea-Horse Trade network
- Combines archival research with field investigation
- Reveals connections between trade, warfare, and frontier governance
- Understanding of tea's far-reaching influence on northwestern China
- Promotes public engagement through publications, talks, and knowledge-transfer activities

研究影響

- 深入剖析歷史上的「茶馬貿易」網絡
- 結合文獻的解讀與實地考察
- 揭示貿易網絡、軍事補給與邊疆治理之間的密切關性
- 認識到茶葉對中國西北社會的深遠影響
- 透過出版刊物、舉辦講座及開展知識轉移活動，將中國邊疆歷史的新視角帶給公眾



Dr. WANG examining an inscription inside a mosque
王博士考察清真寺內的碑刻

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Further Information 更多資訊

Department of Chinese Literature 中國文學系 https://chi.chuhai.edu.hk

Can News Predict Markets ? Using AI to Forecast Commodity Futures

新聞能否預測市場 ？運用人工智能預測商品期貨



Dr. YUAN Zhining, Fernando
Assistant Professor
Department of Business Administration
袁稚濘博士
工商管理學系助理教授

Dr. YUAN Zhining, Fernando of the Department of Business Administration explores how artificial intelligence can improve the prediction of commodity futures prices in China. By analysing market sentiment from financial news sources using advanced AI language models, the research demonstrates how news and investor sentiment can provide valuable insights into future market movements and support more informed financial decision-making.

工商管理學系袁稚濘博士，致力研究如何運用人工智能提升中國商品期貨價格的預測精準度。他透過先進的大型語言模型分析財經新聞中的市場情緒，證實新聞資訊與投資者情緒能為市場走勢提供具價值的參考，進而輔助更審慎的金融決策。

Can AI improve the prediction of China's commodity futures prices by reading sentiment in financial news?

人工智能能否透過分析財經新聞中的市場情緒，進一步提升中國商品期貨價格的預測能力？

Market prices are influenced not only by economic fundamentals, but also by how people perceive and react to news. To better understand this relationship, Dr. YUAN and his research team investigated whether artificial intelligence (AI) can improve the prediction of commodity futures prices in China by analysing market sentiment from financial news sources.

The study focuses on China's commodity futures market, one of the world's most active trading environments. Using a large collection of news articles, reports, and market commentaries from major Chinese financial platforms, the research examines how positive and negative sentiment in media coverage influences future market movements.

A Cutting-Edge Approach: Using AI to decode Market Sentiment

The research analysed large volumes of Chinese-language financial news and market commentary collected from major commodity futures information platforms. To process this unstructured textual

市場價格的升跌，往往不只受經濟基本面主導，更取決於市場參與者如何解讀並回應瞬息萬變的新聞資訊。為探討兩者的深層聯繫，工商管理學系袁稚濘博士及其研究團隊深入探討：人工智能能否透過分析財經新聞中的市場情緒，進一步提升中國商品期貨價格的預測能力？

本研究聚焦於全球最活躍的交易市場之一——中國商品期貨市場。團隊從各大主要中文財經平台收集了海量的新聞報道、分析報告與市場評論，系統性地考察媒體報道中的正面與負面情緒如何牽動未來的市場走勢。

前沿技術：用 AI 讀懂市場情緒

在研究方法上，為突破傳統以關鍵詞為基礎的簡單情緒分析，團隊採用了先進的人工智能語言模型 RoBERTa 來處理非結構化文本數據。此模型能夠深

data, the team applied RoBERTa, an advanced AI language model capable of understanding the context and meaning of written text. Unlike traditional keyword-based sentiment analysis methods, RoBERTa can capture more complex linguistic patterns and nuanced market sentiment. The findings show that news sentiment contains significant predictive information for China's commodity futures market and can help explain future price fluctuations. The study also demonstrates that AI-based language models outperform conventional approaches in identifying useful market signals and improving forecasting accuracy.

Enhancing Financial Decision-Making through Early Market Insights

By combining artificial intelligence, big data, and financial analysis, the study offers new insights into how information spreads through markets and how investor sentiment affects commodity prices. The findings may benefit investors, risk managers, policymakers, and financial institutions seeking to make more informed decisions in increasingly data-driven markets.

入理解複雜的語境與含義，敏銳捕捉細緻的市場情緒。研究結果顯示，基於 AI 的語言模型在識別有效市場訊號及提升預測準確度上表現卓越，優於傳統方法；而新聞情緒數據亦對中國商品期貨市場展現出顯著的預測價值，有助於解釋未來的價格波動。

賦能金融決策，洞察市場先機

透過結合人工智能、大數據與金融分析，本研究針對市場資訊的傳播途徑以及投資者情緒對商品價格的影響，提出了全新且深刻的見解。研究成果有助於投資者、風險管理人員、政策制定者及金融機構，在日益由數據驅動的金融市場中作出更明智、更具前瞻性的決策。

AI-powered RoBERTa model used to analyse market sentiment from financial news
用於分析財經新聞市場情緒的人工智能 RoBERTa 模型

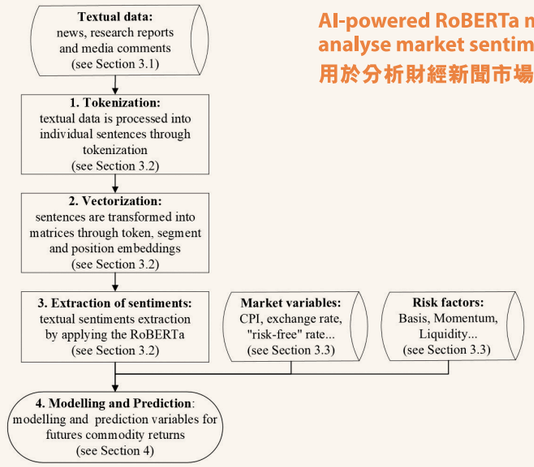

Fig.1 A schematic illustration of the RoBERTa modelling process
圖1：RoBERTa 建模過程的示意圖

Research Impact

- Applies advanced AI language models to analyse Chinese financial news
- Demonstrates the predictive value of market sentiment in commodity futures markets
- Develops new tools for forecasting commodity price movements in China
- Shows that AI-based approaches outperform traditional sentiment analysis methods
- Supports more informed decision-making for investors, risk managers, and policymakers
- Expands the application of artificial intelligence in finance and market analysis

研究影響

- 運用先進人工智能語言模型分析中文財經新聞
- 證明市場情緒對商品期貨市場具有預測價值
- 發展預測中國商品價格走勢的新工具
- 顯示人工智能方法優於傳統情緒分析方法
- 支援投資者、風險管理人員及政策制定者作出更明智決策
- 拓展人工智能在金融市場分析中的應用

Research findings suggest a relationship between news sentiment and commodity market performance
研究結果表明，新聞情緒與商品市場表現之間存在關聯

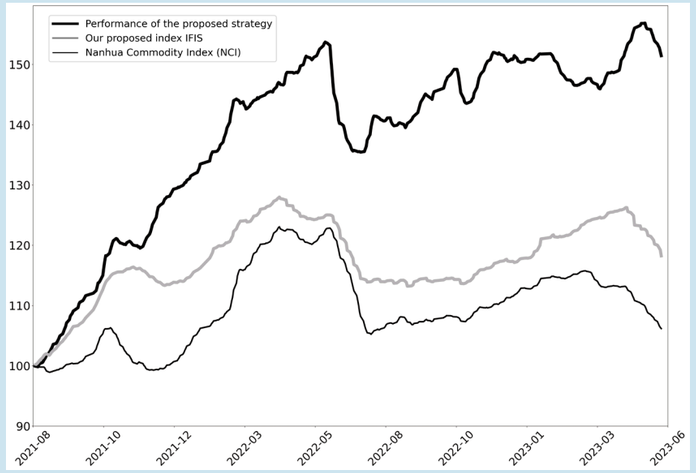

Fig.2 An Illustration of an Exponential Weighted Moving Average (EWMA) of the cumulated returns on a long-only financial strategy based on IFIS - Line (1) in bold black, an EWMA of the cumulated IFIS as an index - Line (2) in bold grey, and an EWMA of the Nanhua Commodity Index (NCI) as the market benchmark - Line (3) in thin black

圖2：基於 IFIS 的做多金融策略累積收益率的指數加權移動平均（EWMA）圖解——粗黑線（1）為策略收益率的 EWMA，粗灰線（2）為將累積 IFIS 作為指數的 EWMA，細黑線（3）為作為市場基準的南華商品指數（NCI）的 EWMA

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Fig. 2 Sina Finance and Futures, East Money Futures, Jin10, Zhuo Chuang, Jin Lian Chuang, He Xun Futures, Wallstreetcn Futures databases and Wind databases. Illustrations by the authors
圖2 新浪財經期貨、東方財富期貨、金十資料、卓創資訊、金聯創、和訊期貨、華爾街見聞期貨資料庫及 Wind 資料庫及作者

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Further Information 更多資訊

Department of Business Administration 工商管理學系 https://bba.chuhai.edu.hk

From Selfies to Smiles: AI-Powered Gum Health Screening for All

從自拍到微笑：全民皆能用 AI 驅動的牙齦健康篩查



Award-winning collaborative research team from HKCHC and HKU
香港珠海學院與香港大學組成的獲獎協作研究團隊



Dr. HSUNG Tai-chiu, Richard
Associate Professor
Department of Computer Science
熊體超博士
資訊科學系副教授

GumAI is an innovative AI-powered oral health assessment system developed by Dr. HSUNG Tai-chiu, Richard, Department of Computer Science, and his interdisciplinary team from Hong Kong Chu Hai College (HKCHC), in collaboration with the Faculty of Dentistry of The University of Hong Kong (HKU). Combining artificial intelligence and smartphone technology, GumAI enables convenient, accessible screening for gum disease and supports early intervention through personalised oral health recommendations.

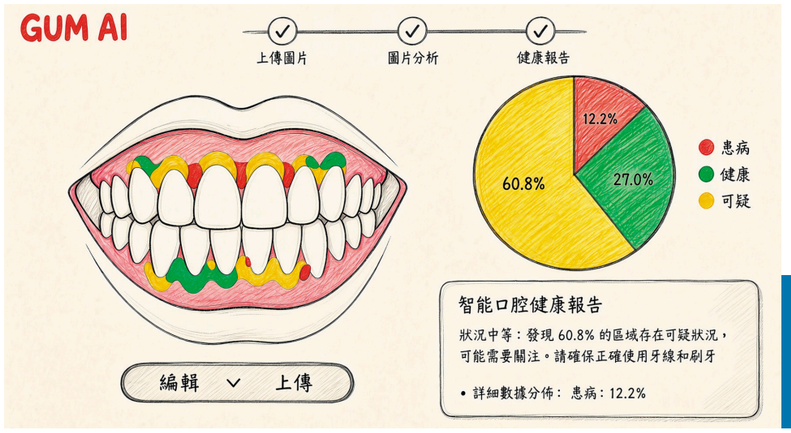
GumAI 是由香港珠海學院資訊科學系的熊體超博士及其團隊，與香港大學牙醫學院共同研發的創新 AI 牙科健康評估系統。結合人工智能與智能手機技術，GumAI讓牙齦疾病的篩查變得方便及易於使用，並透過個人化口腔健康建議，落實預防醫療與早期治療。

A smartphone photo becomes a colour-coded map of gum health.
智能手機拍攝的照片，可標示牙齦健康的狀況圖。

IMAGES
AI圖像分析

AI + VLM
深度學習

Senior Health Screening
長者篩檢



AI-generated assessment highlighting healthy, suspicious and affected gum areas
人工智能評估結果標示健康、可疑及受影響的牙齦區域

Technology Empowers Accessible Periodontitis Screening for Everyone

Periodontal disease affects more than half of the global population and is a leading cause of tooth loss among adults. Because symptoms often develop silently, many people do not seek treatment until the disease has become serious. To address this challenge, the research team developed GumAI, an AI-powered oral health assessment system that uses smartphone photographs to monitor gum health.

Seamlessly Connecting High-tech Innovation with Social Impact

Supported by funding from the Research Grants Council's Faculty Development Scheme(FDS) (UGC/FDS13/E01/22) and the Health and Medical Research Fund (HMRF), GumAI combines advanced artificial intelligence, deep learning and Vision Language Models (VLMs) to analyse oral photographs captured using smartphones. The system first evaluates whether an image is suitable for assessment, verifies that sufficient gum tissue is visible, and then applies AI-based image analysis to identify healthy, suspicious and inflamed gum areas. Results are presented through colour-coded visualisations and personalised recommendations that are easy for users to understand. The research demonstrated that AI- generated assessments can provide reliable screening support while making oral health monitoring more accessible and convenient for the public.

The technology has been integrated into an innovative Smart Toothbrush that combines AI image analysis with pressure and motion sensors to provide personalised brushing guidance. This invention received a Gold Medal at the 49th Geneva International Exhibition of Inventions in 2024, demonstrating its international impact and innovation.

Beyond technological advancement, GumAI is actively supporting community healthcare through outreach programmes that provide free AI-assisted oral health screening for older adults. The project highlights how collaboration between computer science and dentistry can transform research into practical solutions that improve public health and promote preventive healthcare.

Looking Ahead

Building on its success, the research team has secured additional funding to conduct a large-scale clinical study involving older adults to further validate and enhance the system's accuracy. Future developments will focus on strengthening the AI platform, expanding cloud-based deployment, and improving accessibility so that advanced oral health screening can be delivered more effectively to communities and individuals through everyday mobile technology.

科技賦能，讓牙周病篩查不再遙遠

牙周病影響全球超過一半的人口，是成人牙齒脱落的主要原因之一。然而，由於症狀常常悄然出現，許多人直到疾病變得嚴重才尋求治療。為了解決這個難題，研究團隊開發了 GumAI——這是一套運用智慧型手機照片即可監測牙齦健康的 AI 系統，旨在讓牙周病篩檢變得更方便、更容易取得，守護大眾的口腔健康。

科技創新與回饋社會

在研究資助局教員發展計劃 (UGC/FDS13/E01/22) 及健康與醫學研究基金的資助下，GumAI 結合先進的人工智能、深度學習與視覺語言模型，對智能手機拍攝的口腔照片來評估牙齦狀況。系統首先評估檢測影像品質是否合適進行分析，並確認相片中顯示出足夠的牙齦組織，隨後透過 AI 圖像分析技術，精準辨識出健康、可疑及發炎的牙齦區域。分析結果會以顏色編碼的視覺化呈現，並提供易於理解的個人化護理建議。研究證明，AI 產生的評估結果能提供可靠的篩查支援，同時大幅提升大眾進行日常口腔健康監測的便捷度與普及程度。

此項技術已成功整合至一款創新的智能牙刷中，結合 AI 圖像分析、壓力及動作感測器，為使用者提供個人化的刷牙指導。該項發明於 2024 年第 49 屆日內瓦國際發明展榮獲金獎，彰顯其卓越的創新價值與國際影響力。

除技術的突破外，GumAI 也積極透過外展計劃回饋社會，為長者提供免費的 AI 口腔健康篩查服務，切實支援基層醫療健康。此項目充分展現了資訊科學與牙科學的跨領域合作的巨大潛力，成功將前沿研究轉化為改善公眾健康與推動預防醫療的實用方案。

展望未來

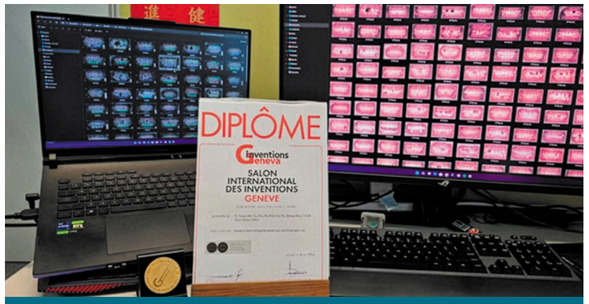
在此成功基礎上，研究團隊現已取得額外資助，將開展一項針對長者的大型臨床研究，以進一步驗證並提升系統準確度。未來的發展方向著眼於優化 AI 平台、擴大雲端部署及提升系統的普及性，讓先進的口腔健康篩查能透過日常移動技術，更有效地惠及社區與廣大市民。

Research Impact

- Gold Medal winner at the 49th Geneva International Exhibition of Inventions (2024)
- Enables smartphone-based AI screening for gum health assessment
- Supports early detection and prevention of periodontal disease
- Integrates artificial intelligence with dental healthcare innovation
- Provides free community oral health screening for elderly in Hong Kong
- Demonstrates successful collaboration between HKCHC and HKU researchers
- Supported by RGC and HMRF funding to advance preventive healthcare research

研究影響

- 2024年第49屆日內瓦國際發明展金牌得主
- 啟用基於智能手機的 AI 牙齦健康篩檢
- 支持牙周病的早期發現與預防
- 整合人工智能與牙科醫療創新
- 為香港長者提供免費社區口腔健康篩查
- 展示香港珠海學院與香港大學研究人員的成功合作
- 由研究資助局及健康與醫學研究基金資助，推動預防性醫療研究



The 49th GumAI Smart Toothbrush innovation received Gold Medal recognition at the Geneva International Exhibition of Inventions 2024
於2024年第四十九屆日內瓦國際發明展GumAI 智能牙刷創新發明榮獲金獎



AI-assisted oral health screening service provided to elderly participants during community outreach activities
向參與社區外展活動的長者提供人工智能輔助口腔健康篩查服務



Dr. HSUNG Tai-chiu, Richard and his team members of Department of Computer Science
資訊科學系熊體超博士及其團隊成員

More about the project
更多項目詳情

UGC

HKCHC

Funding 資助

Automatic multiple level gum disease detection based on deep neural network: algorithm and system (UGC/FDS13/E01/22), Research Grants Council
基於深度神經網絡的多層次牙齦疾病自動檢測：算法和系統 (UGC/FDS13/E01/22),研究資助局

Acoustic-based automated obstructive sleep apnea detection method, (UGC/FDS13/E03/25), Research Grants Council
基於聲學的自動阻塞性睡眠呼吸中止症檢測方法 (UGC/FDS13/E03/25),研究資助局

Related Publications and Presentations 相關出版與學術報告

Chau, R. C. W., Cheng, A. C. C., Mao, K., Thu, K. M., Ling, Z., Tew, I. M., Chang, T. H., Tan, H. J., McGrath, C., & Lo, W.L. (2025). External validation of an AI mHealth tool for gingivitis detection among older adults at daycare centers: A pilot study. International Dental Journal, 75(3), 1970–1978. https://doi.org/10.1016/j.identj.2025.01.008

Chau, R. C. W., Gong, Z., Cheng, A. C. C., Mao, K., Thu, K. M., Zhang, R., Chang, T. H., Tan, H. J., Tsang, H. S.-H., Tonetti, M. S., Schwendicke, F., Hsung, R. T.-C., & Lam, W. Y. H. (2026). External validation of a mHealth tool for detecting gingival inflammation in community-dwelling older adults. Journal of Dentistry, 173, Article 106804. https://doi.org/10.1016/j.jdent.2026.106804

Cheng, C. C., Tsang, H. S. H., Tai-Chiu Hsung, R., Chan, Y. L., Lo, W. L., & Lam, W. (2025). GumAgent: Towards an Accessible Gum Disease Detection Tool Leveraging Vision Language Model. In 2025 8th International Conference on Information Communication and Signal Processing, ICICSP 2025 (pp. 513-518). Article 11338496 (2025 8th International Conference on Information Communication and Signal Processing, ICICSP 2025). Institute of Electrical and Electronics Engineers Inc. https://doi.org/10.1109/ICICSP66564.2025.11338496



Under the leadership of Prof. CHAN Man-hung, Thomas, Director of Ng Teng Fong · Sino Group Belt and Road Research Institute (NSBRRI), researchers from NSBRRI and the Azerbaijan State University of Economics jointly authored the monograph *The Belt and Road Initiative and Economic Development of Azerbaijan*. Bringing together expertise from Hong Kong and Azerbaijan, Greece, Pakistan, and Ukraine, the project examines how Belt and Road connectivity initiatives can support economic development, regional integration and cross-border cooperation. The publication showcases NSBRRI's role in fostering international research partnerships and contributing policy-relevant insights on emerging Eurasian trade corridors.

在黃廷方 • 信和一帶一路研究院（NSBRRI）院長陳文鴻教授的帶領下，研究院與阿塞拜疆國立經濟大學 (Azerbaijan State University of Economics) 的研究團隊攜手合作，共同撰寫了《「一帶一路」倡議與阿塞拜疆經濟發展》*(The Belt and Road Initiative and Economic Development of Azerbaijan)* 專論。項目匯聚來自香港、阿塞拜疆、希臘、巴基斯坦及烏克蘭的專家智慧，深入探討「一帶一路」互聯互通倡議在推動經濟發展、深化區域整合及促進跨境合作的發展。是次出版充分展現了黃廷方 • 信和一帶一路研究院在引領國際研究合作，以及就新興歐亞貿易走廊提供具政策參考價值的卓越角色。

Transport and Logistics Hub Connecting Asia and Europe

The monograph explores Azerbaijan's growing role as a transport and logistics hub connecting Asia and Europe. Drawing on trade data, policy analysis and case studies, the research highlights the strategic importance of the Middle Corridor, an emerging trade route linking China and Europe through Central Asia and the South Caucasus.

The study shows that successful connectivity depends not only on infrastructure such as ports and railways, but also on digitalisation, logistics coordination and international cooperation. Its findings provide valuable insights for policymakers, businesses and researchers, while identifying opportunities for Hong Kong in finance, logistics, digital trade and professional services.

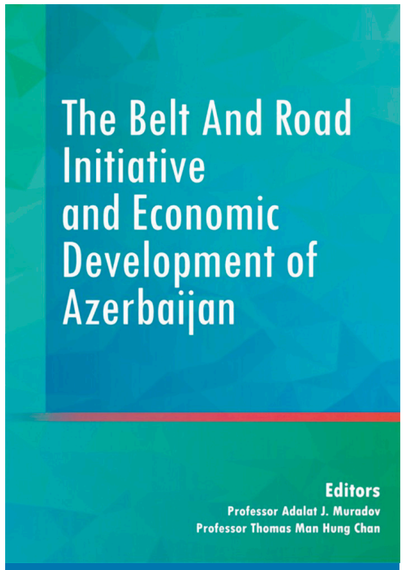
Methodology and Key Findings

The monograph adopts a multi-level research approach that combines trade and investment data, policy analysis, corridor development studies, and case-based evidence relating to logistics, ports, rail connectivity, and regional cooperation. By examining Azerbaijan's development from national, sectoral, and business perspectives, the research evaluates how Belt and Road connectivity influences economic growth and regional integration. The study finds that Azerbaijan has evolved from a transit country into a regional logistics and coordination hub, while highlighting that effective infrastructure alone is insufficient. Long-term success depends on digitalisation, efficient governance, international cooperation, and the ability to integrate transport networks with modern logistics and trade systems.



MOU signed with Azerbaijan State University of Economics, Azerbaijan, September 2024

研究院於 2024年 9 月與阿塞拜疆國立經濟大學（UNEC）正式簽署合作諒解備忘錄（MOU），為推進「一帶一路」沿線國家之學術交流與共同研究奠定堅實基礎



The monograph examines the economic impact of the Belt and Road Initiative on Azerbaijan
ISBN: 978-988-72370-0-6

本書深入剖析了「一帶一路」倡議對阿塞拜疆所帶來的經濟影響

連接歐亞的新物流樞紐

本專論聚焦於阿塞拜疆作為連接亞洲與歐洲的運輸物流樞紐，及其日益重要的戰略地位。研究結合了貿易數據、政策分析與個案研究，突顯了「中間走廊」（這條貫穿中亞及南高加索地區、連接中國與歐洲的新興貿易路線）的策略重要性。

研究指出，順暢高效的互聯互通不僅依賴港口和鐵路等硬件基建，更有賴於數碼化轉型、物流統籌協調與深化國際合作。有關研究成果不僅為政策制定者、企業及學術界提供了具價值的參考，也指出香港在金融、物流、數碼貿易及專業服務等領域的嶄新機遇。

研究方法與發現

本專論採用了多層次研究框架，結合投資貿易數據、政策分析、交通走廊發展評估，以及涵蓋物流、港口、鐵路連接及區域合作的實證個案分析。研究從國家、行業及企業的發展，全面評估阿塞拜疆的綜合發展，探討「一帶一路」的互聯互通如何實質性促進經濟增長與區域整合。研究指出，阿塞拜疆已從傳統的「過境國家」，晉升為為區域物流與協調的核心樞紐。研究也發現阿塞拜疆的成功轉型不單取決於基礎設施的完善，長遠成功關鍵在於數碼化轉型、高效管理、國際協作，以及將運輸網絡與現代物流及貿易系統全面對接的能力。

Research Impact

- International research collaboration across five countries
- Examines Azerbaijan's strategic role in the Belt and Road Initiative
- Highlights the importance of the Middle Corridor for Eurasian trade
- Explores the role of digitalisation in modern logistics and connectivity
- Identifies opportunities for Hong Kong in finance, logistics, and professional services and digital business support

研究核心亮點

- 跨越五個國別的國際合作研究
- 深入探討阿塞拜疆在「一帶一路」倡議中的重要角色
- 突出「中間走廊」對歐亞貿易發展的重要性
- 探討數碼化在現代物流與互聯互通中的關鍵作用
- 發掘香港在金融、物流、專業服務及數碼業務支援方面的機遇

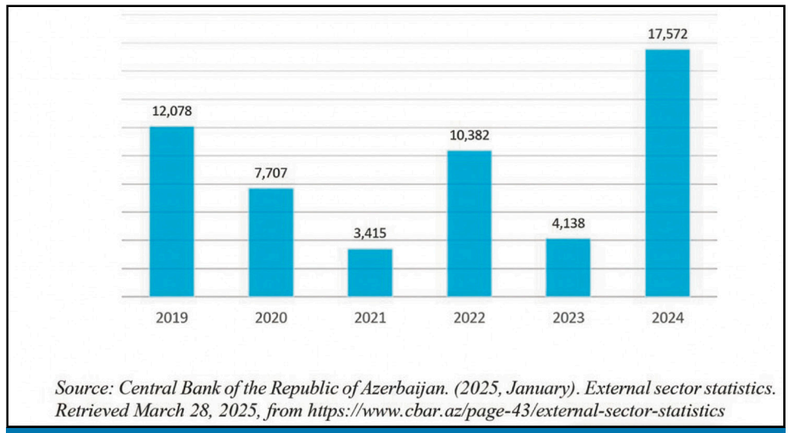


Fig.1: China's Outward FDI in Azerbaijan from 2019 to 2024 (in thousand of US$)
圖1： 中國對阿塞拜疆之對外直接投資（2019-2024年）(單位：千美元)

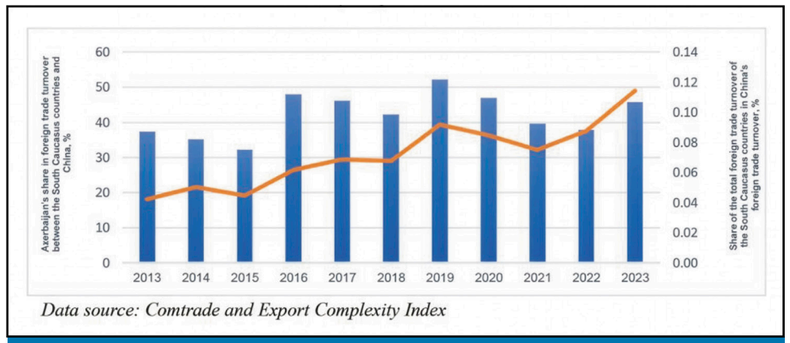


Fig. 2 : Share of the total foreign trade turnover of the South Caucasus countries in China's foreign trade turnover
圖2： 南高加索國家於中國對外貿易總額之佔比

Further Information 更多資料

Ng Teng Fong • Sino Group Belt and Road Research Institute 黃廷方 • 信和一帶一路研究院 https://obor.chuhai.edu.hk

IN CONVERSATION WITH ACADEMIC STAFF
學者專訪



Dr. YUN Lihong
Acting Head and Associate Professor
Department of Business Administration
雲麗虹博士
工商管理學系署理系主任兼副教授

Interview-style excerpt from Dr. YUN's reflection. Teaching and research are treated as one loop: research supplies the ideas; teaching requires students to use those ideas in a new setting.

訪問式研究及教學摘錄：內容整理自雲麗虹博士的教學反思，並以訪問形式呈現。

核心重點：雲博士認為研究與教學是同一條路徑：研究為她提供思想資源；在教學上，她則要求學生把這些思想帶到尚未學習過的情境中使用。

Q1 When you bring research into class, what should students still be able to do in a new firm or case?
問1 當你把研究成果帶進課堂，而這些成果是過去的，學生在面對一家新企業或一個新案例時，仍能夠有效應用來自研究成果的知識嗎？

I do not ask students to reproduce my papers. My work on trade, labour demand, e-commerce, flexible employment, and entrepreneurship enters the classroom so that they can use economic reasoning and strategic judgement on a problem I have never set. That is transfer, not replication. Clear learning outcomes tell them what must travel when the firm, the data, or the market changes.

我從不要求學生簡單複製我的學術研究。相反，我將自己在國際貿易、勞動需求、電子商務、靈活就業和創業等領域的研究成果轉化為教學資源，引導學生運用經濟學分析工具和戰略思維，解決全新的、未知的商業問題。教育的目標在於促進知識與能力的遷移，而非研究成果的再現。通過清晰界定學習成果，學生能夠理解無論面對何種企業情境、數據環境或市場變化，都應具備將經濟學原理、分析方法和決策能力靈活應用於新問題的能力。這種遷移能力正是高品質商科教育的重要體現。

Q2 How did one piece of research become a student task?
問2 你如何把一項研究內容轉成學生的學習任務？

A study of platform competition and e-tailing became a two-step case. Students first learn how diminishing marginal utility, consumer decision paths, and innovative business models help them read a digital market. The brief then shifts: they examine a different platform, identify its competitive pressures, and recommend a strategy. The rubric rewards the move from framework to unfamiliar ground—not a polished summary of the original lecture.

舉例而言，我曾將平台競爭與電子零售的研究設計為兩階段的案例教學。首先，學生運用邊際效用遞減、消費者決策路徑和商業模式等理論分析數字市場；隨後，他們將這些分析工具應用於另一平台，識別競爭壓力並提出戰略建議。課程評估的重點不在於看學生能否複述課堂內容，而在於他們能否將理論遷移到新的情境中去解決問題。

Q3 What shows that learning transferred?
問3 怎樣證明學生課程所學確實遷移到實踐場景中去？

One graduate of Managerial Economics, Leadership, and Digital Marketing later built a self-service coffee vending business. She treated digital marketing as customer acquisition and channel design, not merely as posts on social media. The research had left the classroom and gone to work in a firm I never designed.

在我過去任教的學生中，有一位修讀過管理經濟學、領導力與數字營銷的畢業生，她也同時經營自助咖啡售賣業務。她將數位行銷應用於客戶開發和渠道設計，而非僅限於社交媒體推廣。這表明課堂所學已經成功遷移到真實商業環境，並在全新的實踐場景中創造價值。

Q4 What would you share with colleagues?
問4 你會向同事分享甚麼獨到心得？

Align outcomes, tasks, and graduate attributes so transfer can be taught and marked. Research gives the substance. Teaching decides whether students can carry it beyond the case in which they first met it.

不敢說獨到心得，我個人認為：學習成果、教學任務與畢業生能力要求之間的有效對接，是培養和評估知識遷移能力的關鍵。研究提供知識內容，教學則決定學生能否將這些知識運用於解決新的問題，並落實在實踐情境之中。

「研究提供思想資源，教學則要求學生把這些思想帶到尚未學習的情境中使用。」
"Research supplies the ideas; teaching requires students to use those ideas in a setting they have never been taught."

INSPIRING INNOVATION, SHAPING THE FUTURE: STUDENTS AND ALUMNI INNOVATIONS
創新傳承 智啟未來：學生與校友多項研創成果

Faculty of Arts and Social Sciences 文學與社會科學院
Department of Chinese Literature 中國文學系

Excellence in Classical Chinese Poetry: Showcasing Literary Talent
全港中文近體詩創作比賽獲獎，推動古典文學與傳統文化

CHEN Yixin, BA (Hons) in Chinese Literature
LIANG Xutao, MA in Chinese Studies
中國文學(榮譽)文學士課程**陳翊心**同學及國學文學碩士課程**梁栩滔**同學



CHEN Yixin (BA (Hons) in Chinese Literature) won champion in the Tertiary Category of the Hong Kong Modern-style Classical Chinese Poetry Composition Competition in March 2026. LIANG Xutao (MA in Chinese Studies) was awarded Second Runner-up in the Open Category of the same competition.

中國文學(榮譽)文學士課程陳翊心同學，於2026年3月榮獲香港工商總會葵青分會與國際半島聯青社主辦「全港中文近體詩創作比賽」大專組冠軍。國學文學碩士課程梁栩滔同學於同一比賽榮獲公開組季軍。



Academic Excellence and Cross-Disciplinary Practice: MA Student Secures Prestigious Academic & Cultural Grants
莊子美學研究獲肯定 國學碩士課程學生囊括多項學術與藝術資助

XU Chi, MA in Chinese Studies
國學文學碩士課程**徐馳**同學

XU Chi (MA in Chinese Studies) received an Excellence Award at the 2026 Jianghai Health Culture Symposium for his paper on Zhuangzi's aesthetics. His research was subsequently selected for presentation at the 3rd National Academic Symposium for Young Chinese and International Students in Arts Majors, and he was further selected for the Huang Yongyu International Youth Printmaking Artist Support Programme and the National Arts Fund Theatre Management Talent Training Programme.

國學文學碩士課程徐馳同學之期末論文〈畸人奇人——莊子的審醜之道〉於2026年2月榮獲南通市醫學會主辦之「2026年度江海健康文化研討會」論文評選優秀獎。其後，徐同學之學術論文〈吳昌碩與中日篆刻交流〉入選2026年6月11日國家留學基金管理委員會主辦之「感知中國 • 第三屆全國藝術類專業中外青年學術研討會」。徐同學更於6月5日入選第二屆香港「黃永玉」國際青年版畫藝術家扶持計劃，並於6月10日獲「國家藝術基金2026度藝術人才培養資助項目——粵港澳大灣區劇院管理人才培訓」錄取。

Centre of Buddhist Studies 佛學研究中心



Integrating Buddhist Philosophy with Spatial Design: Architectural Planning for a Temple in Hong Kong
佛學哲理與建築空間之融通：香港佛寺規劃與環境設計實踐

QI Jianfei, MA in Applied Buddhist Studies
應用佛學文學碩士課程**戚建飛**同學

QI Jianfei (MA in Applied Buddhist Studies) Integrated Buddhist studies with his professional architectural practice by developing planning and environmental design proposals for a Buddhist temple in Hong Kong. He sought to apply Buddhist philosophy and spatial design principles to create an architectural project with a distinctive cultural character.

應用佛學文學碩士課程戚建飛同學將佛學研究與專業建築實踐結合，為香港一所佛寺提供規劃及環境設計方案。他嘗試運用佛教哲理與空間設計原則，構建具文化特色的建築項目。

Department of English 英國語文系

Medium of Instruction (MOI) Policies and Bilingual Classroom Practices in Hong Kong Universities
香港高校教學語言（MOI）政策研究政策與雙語學習實踐

Iqra KHAN, BA (Hons) in English Studies
英國語文(榮譽)文學士課程 **Iqra Khan** 同學

Iqra KHAN (BA (Hons) in English Studies) conducted a research project on Medium of Instruction (MOI) policies in Hong Kong universities under the supervision of Senior Lecturer Cecilia Li. Through surveys and interviews with students and faculty members, she identified key language-learning challenges and found strong support for more flexible bilingual classroom practices to enhance learning, participation, and student success.

英國語文(榮譽)文學士課程 Iqra KHAN同學在高級講師李雪心指導下，開展香港高校教學語言（MOI）政策研究。Iqra KHAN透過問卷調查及師生訪談，梳理主要語言學習挑戰，並發現師生普遍支持更靈活的雙語課堂實踐，以提升學習成效、課堂參與及學業表現。

Department of Journalism and Communication 新聞及傳播學系



A New Era in Smart Filmmaking: AI-Powered Energy-Saving Lighting Control
人工智能節能燈光控制系統

LUO Jiefu, Alumus, MA in Applied Artificial Intelligence and Creative Industries (2025-26)
應用科技文學碩士課程**羅杰夫**校友（2025-26）

LUO Jiefu (Alumnus, MA in Applied Artificial Intelligence and Creative Industries, 2025-26) developed an Intelligent LED Energy-Saving Film Lighting Control System that uses AI to automatically adjust lighting conditions during film production. The innovation improves production efficiency, reduces energy consumption, and has received industry recognition and creative industry awards.

創意產業應用科技文學碩士課程羅杰夫校友研發智能LED節能影視燈光控制系統，運用人工智能於拍攝過程中自動調節燈光條件。該創新提升製作效率、降低能耗，並獲得業界肯定及文創產業獎項。

Interdisciplinary Student Team Performs Original AI Work at GBA Digital Music Exchange
跨學科團隊發表原創作品 亮相粵港澳大灣區 AIGC 音樂交流匯演

WANG Yue, HUANG Kaixin, ZHANG Xiwen, BA (Hons) in Communication and Digital Media
BAO Wubihan, BA in Chinese Literature
傳播及跨媒體(榮譽)文學士課程**汪玥**同學、**黃開心**同學、**張曦文**同學及
中國文學(榮譽)文學士課程**鮑吳碧晗**同學



On 16 April 2026, WANG Yue, HUANG Kaixin, ZHANG Xiwen (BA (Hons) in Communication and Digital Media) & BAO Wubihan (BA (Hons) in Chinese Literature) joined an AIGC digital music exchange with Xinghai Conservatory of Music in Guangzhou, creating and performing an original AI-assisted music work that demonstrating innovative applications of generative AI in music production and interdisciplinary collaboration.

傳播及跨媒體(榮譽)文學士課程汪玥同學、黃開心同學、張曦文同學，聯同中國文學(榮譽)文學士課程鮑吳碧晗同學，於2026年4月16日參與與星海音樂學院舉辦的粵港澳大灣區AIGC音樂創作交流匯演。團隊創作並演出原創人工智能輔助音樂作品，展示生成式人工智能在音樂製作中的創新應用，以及跨學科協作成果。

Advancing Digital Media Research & Data Journalism: Journalism Student Earns Academic and National Recognition
深耕數碼媒體與數據新聞：新聞及傳播學系學生研究與數據作品喜獲權威肯定

CAI Boshen, BA (Hons) in Journalism and Communication
新聞及傳播(榮譽)文學士課程**蔡博燊**同學



CAI Boshen (BA (Hons) in Journalism and Communication) presented two research papers at the PolyU- CALLS 2026 Conference, covering topics in digital media, gaming culture, and cross-cultural film reception. His data journalism project,"*IP Going Global: Labubu's Path to Worldwide Fame*," also won a National Second Prize in the China News Contest.

新聞及傳播(榮譽)文學士課程蔡博燊同學在 2026 年 3 月於 PolyU-CALLS 2026 研討會發表兩篇論文，涵蓋數碼媒體、遊戲文化及電影跨文化接受等議題。其數據新聞作品《IP 出海：Labubu 走向世界之路》亦於中國新聞大賽獲全國二等獎。

Overcoming -30°C Extremes to Craft Quality Cinematic Storytelling
克服零下 30 度極限環境 新傳學生展現卓越敘事與創作毅力

TIAN Haixin, BA (Hons) in Communication and Digital Media
傳播及跨媒體(榮譽)文學士課程**田海馨**同學



TIAN Haixin (BA (Hons) in Communication and Digital Media) completed her graduation film project in Xinjiang under challenging conditions, including a 15-hour journey and temperatures as low as -30°C. Her commitment to completing the production exemplifies the department's emphasis on experiential learning and high-quality storytelling.

傳播及跨媒體(榮譽)文學士課程田海馨同學遠赴新疆完成畢業短片拍攝，歷時15小時路程，並在低至攝氏零下30度的嚴寒條件下堅持製作。她完成作品的決心，體現學系重視體驗式學習與優質敘事的培養理念。

Faculty of Science and Engineering 理工學院

Department of Architecture 建築學系

Merit Award at the 14th China Innovation and Entrepreneurship Competition
第十四屆中國創新創業大賽獲優秀獎

LU Qionghui and WU Si, MA in Urban Development and Practice
城市發展及實踐文學碩士課程**盧瓊慧**同學及**吳斯**同學



LU Qionghui and WU Si (MA in Urban Development and Practice) received a Merit Award at the 14th China Innovation and Entrepreneurship Competition (Guangzhou Division) for their project, "*Asset-Based Coastal Community Transformation and Prospects for Marine Technology Applications: The Case of Sam Shing Tsuen, Hong Kong*". The award recognised their innovative approach to coastal community development and marine technology applications.

城市發展及實踐文學碩士課程盧瓊慧同學及吳斯同學憑項目「資產為本的濱海社區轉型：香港三聖村案例與海洋科技應用前景」，於第十四屆中國創新創業大賽（廣州賽區）獲優秀獎。該獎項肯定他們在濱海社區發展及海洋科技應用方面的創新方法。



First Prize For An Inclusive, Immersive Road-Safety Town
改造秀茂坪道交通安全城奪冠

CHEUNG Ting Hin, SO Yin Hang, YU Tai Nai and LIU Mengyi, BSc (Hons) in Architecture
建築學(榮譽)理學士課程**張廷軒**同學、**蘇彥恒**同學、**余大鼐**同學及**劉夢怡**同學

CHEUNG Ting Hin, SO Yin Hang, YU Tai Nai and LIU Mengyi (BSc (Hons) in Architecture) won First Prize (Student Category) in the Revamp of Sau Mau Ping Road Safety Town Design Competition. Their winning proposal integrated immersive technology, sustainable landscaping and inclusive urban design to enhance road safety education for children and the elderly.

建築學(榮譽)理學士課程張廷軒同學、蘇彥恒同學、余大鼐同學及劉夢怡同學於「改造秀茂坪道交通安全城設計比賽」學生組別奪得冠軍。得獎方案融合沉浸式科技、可持續園境及包容性城市設計，加強兒童與長者的道路安全教育。

Excellence Award for An AI Digital Guiding System
雷生春歷史建築AI數字導覽系統獲優秀獎

SHI Jie and LIN Shubei, MA in Cultural Heritage
文化遺產文學碩士課程**石傑**同學、**林淑蓓**同學



SHI Jie and LIN Shubei (MA in Cultural Heritage) received the Excellence Award in the 2nd TJH Cup Built Heritage Digitalization and Innovative Application Competition for their project, *Spatiotemporal AR Mirror: AI Digital Guiding System for Lui Seng Chun Historical Building*, which applied digital and AI technologies to heritage conservation and interpretation.

文化遺產文學碩士課程石傑同學及林淑蓓同學憑項目「時空 AR 鏡：雷生春歷史建築 AI 數字導覽系統」，於第二屆「TJH 杯」建築遺產數字化與創新應用大賽獲優秀獎。作品運用數字及人工智能技術，推動建築遺產保育與詮釋。

Department of Civil Engineering 土木工程學系

The Chartered Institution of Highway & Transportaton (CIHT) Best Student Paper Award and published at WIAC 2025 Conference
獲特許公路及運輸學會最佳學生論文獎及於WIAC 2025國際會議刊發

CHONG Wai Shing, BSc (Hons) in Civil Engineering
土木工程學(榮譽)工學士課程**莊偉成**同學



CHONG Wai Shing's final-year project (BSc (Hons) in Civil Engineering) on IoT-based air quality monitoring in public transport vehicles and railways, investigating pollutant levels and their impact on passenger health. The project received the CIHT Best Student Paper Award 2023, and its findings were subsequently published at the international WIAC 2025 conference in Italy.

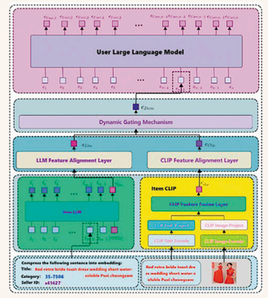
土木工程學(榮譽)工學士課程莊偉成同學完成畢業專題研究，以物聯網技術監測公共交通工具及鐵路車廂空氣質素，探討污染物水平及其對乘客健康的影響。該項目獲特許公路及運輸學會2023年最佳學生論文獎，研究成果其後於意大利WIAC 2025國際會議刊發。

Department of Computer Science 資訊科學系

Capstone Research Published in the Q1 Journal
畢業專題研究獲 Q1期刊刊發



DONG Wenlong, Alumnus, MSc in Applied Artificial Intelligence (2024-25)
應用人工智能理學碩士課程**董文龍**校友（2024-25）

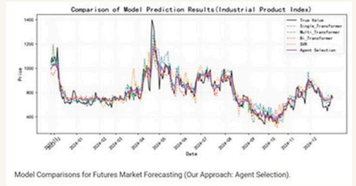


DONG Wenlong, Alumnus of MSc in Applied Artificial Intelligence 2024-25 cohort, research published his capstone project works in the Q1 journal Big Data and Cognitive Computing. The study tackles an important challenge in online shopping: helping AI understand products and shoppers more fully. By combining information from product images and text, the proposed approach aims to make recommendations more relevant—contributing to the development of smarter e-commerce systems.

2024-25 年度應用人工智能理學碩士課程董文龍校友的畢業專題研究，刊發於 Q1 期刊《Big Data and Cognitive Computing》。研究探討網上購物的一項重要課題：如何讓人工智能更全面地理解商品與消費者。透過結合商品圖片與文字資訊，研究提出的方法旨在提升推薦結果的相關性，為更智能的電子商務系統發展作出貢獻。

AI framework + Transformer Architecture and Reinforcement Learning Research Published in the Q1 Journal
人工智能框架 + 情感驅動的金融市場預測框架研究於Q1期刊發表

SONG Zhicong, Alumnus, MSc in Applied Artificial Intelligence (2024-25)
應用人工智能理學碩士課程**宋智聰**校友（2024-25）



SONG Zhicong completed research on an AI framework for sentiment-driven financial market forecasting during his MSc in Applied Artificial Intelligence. The framework combines Transformer architecture with reinforcement learning, and the findings were published in the Q1 journal Forecasting. After graduation, he became a lecturer and began pursuing a doctoral degree.

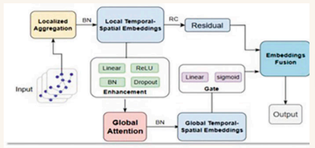
應用人工智能理學碩士課程宋智聰校友在攻讀碩士課程期間，完成了一項關於情感驅動金融市場預測的研究，提出結合 Transformer 架構與強化學習的人工智能框架。相關研究成果於 Q1 期刊《Forecasting》發表*。畢業後，他出任講師，並繼續攻讀博士學位。



* Song, Z.; Tsang, H.S.H.; Hsung, R.T.C.; Zhu, Y.; Lo, W. L. From Market Volatility to Predictive Insight: An Adaptive Transformer — RL Framework for Sentiment-Driven Financial Time-Series Forecasting. Forecasting 2025, 7, 55. https://doi.org/10.3390/forecast7040055

Traffic Forecasting AI Model Published in International Journal
交通流量預測 AI 模型登上國際權威期刊

LIN Zhenan, Alumnus, MSc in Applied Artificial Intelligence (2024-25)
應用人工智能理學碩士課程**林哲南**校友（2024-25）





LIN Zhenan conducted research on TSFusion, an AI model for traffic-flow forecasting during his MSc in Applied Artificial Intelligence studies. The work, which showed improved accuracy and stability in smart-city traffic predictions, was published in *IET Communications*. LIN has since begun PhD studies.

林哲南校友在攻讀應用人工智能理學碩士課程期間，進行了有關 TSFusion的研究。TSFusion是一種用於交通流量預測的人工智能模型，可提高智慧城市交通預測的準確性與穩定性 ； 相關研究成果其後於《 IET Communications》刊發。林哲南校友其後亦開始修讀博士課程。

Ng Teng Fong · Sino Group Belt and Road Research Institute 黃廷方·信和一帶一路研究院

Master's Degree Programme Students Served as Speakers and Shared on BRI Business Practices
碩士學位課程學生擔任講者並分享「一帶一路」營商實踐

Wendy CHAN, Steffan ZHANG & Jane SHEN Master Degree Programme Students
碩士學位課程**陳梅英**同學、**張敏**同學及**沈晶**同學

Three Master's Degree Programme students served as speakers at the Workshop on BRI Business Practices in April 2026. Wendy CHAN shared an analysis of how shared massage chair businesses evolved into platform- based ecosystems in Southeast Asian markets. Her work applied interdisciplinary business and Belt and Road research perspectives to real- world commercial development. Steffan ZHANG presented his research on China-Europe rail logistics, demonstrating how geopolitical frameworks can be applied to address practical transportation and supply chain challenges in international logistics. Jane SHEN shared a comparative study of ASEAN regulatory frameworks, developing a compliance roadmap for Belt and Road enterprises based on policy analysis and industry insights.

研究院三名碩士課程學生於2026年4月「一帶一路」營商實踐工作坊擔任講者。陳梅英同學分析共享按摩椅業務如何在東南亞市場演變為平台型生態，將跨學科營商視角與「一帶一路」研究結合於實際商業發展。張敏同學分享中歐鐵路物流研究，說明如何以地緣政治框架應對國際物流中的運輸及供應鏈挑戰。沈晶同學則提出東盟監管框架比較研究，並依據政策分析與行業觀察，為「一帶一路」企業擬定合規路線圖。

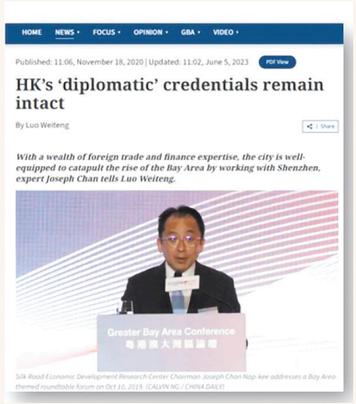


Distinguished Alumni Demonstrated Exceptional Entrepreneurial Success
傑出校友展現卓越創業成就

CHAN Nap-kee, Joseph, Alumnus, MSocSci in International Relations for Belt and Road Countries (2020-2021)
LIANG Tao, James, Alumnus, MSocSci in International Business Management for Belt and Road Countries (2022-2023)
社會科學碩士課程 (一帶一路國家國際關係) **陳立基**校友 (2020-21)
社會科學碩士課程 (一帶一路國家國際工商管理) **梁濤**校友 (2022-23)

CHAN Nap-kee, Joseph (Alumnus, MSocSci in International Relations for Belt and Road Countries, 2020-2021), a veteran financier and Founding Partner of Oriental Patron Financial Group, deepened his Belt and Road Initiative (BRI) geopolitical insights through his studies, directly informing his cross-border investment and policy works. As Founding Partner of Oriental Patron Financial Group, he has actively collaborated with the Institute on BRI forums and research platform development.

LIANG Tao, James (Alumnus, MSocSci in International Business Management for Belt and Road Countries, 2022-2023), CEO of Shenzhen Tuxing Technology Network Co. Ltd. and General Manager of Greater Bay Area Hong Kong Tustar Technology Co., Ltd., applied international business knowledge acquired through the programme to expand his technology enterprises across the Greater Bay Area. As a business leader, he has achieved notable entrepreneurial success in technology and regional development.



陳立基校友 (2020—2021年度一帶一路國家國際關係社會科學碩士課程）為資深金融家及東英金融集團創辦合夥人。他透過碩士課程深造，深化了對「一帶一路」地緣政治的獨到見解，為其跨國投資策略及政策研究工作奠定堅實基礎。作為東英金融集團創辦合夥人，陳先生亦積極與「一帶一路」研究院合作，共同推動舉辦論壇及發展研究平台。

梁濤校友 (2022—2023年度一帶一路國家國際工商管理社會科學碩士課程）現任深圳市圖星科技網路有限公司首席執行官及大灣區香港圖星科技有限公司總經理。他將課程中所學的國際工商管理知識活學活用，成功將其科技企業版圖擴展至整個粵港澳大灣區。作為企業領袖，他在科技與區域發展領域取得了顯著的創業成就。

SCHOLARLY ACTIVITIES
學術活動

Faculty Of Arts And Social Sciences
文學與社會科學院

Department of Chinese Literature 中國文學系



Urban-Rural Education in the Greater Bay Area
庠序之教：大灣區城鄉教育的回顧與展望

The Department of Chinese Literature together with the Centre for Asian Studies, co- organised the "Retrospect and Prospect of Urban-Rural Education in the Greater Bay Area" Tea Gathering on 21 May 2026. The event brought together scholars from Hong Kong, Chinese Mainland, Taiwan and Macau to discuss education development, cultural heritage and AI in education in the Greater Bay Area, featuring a keynote address by Professor Ambrose King Yeo-chi.

中國文學系聯同亞洲研究中心，於 2026 年 5 月 21日合辦「庠序之教：大灣區城鄉教育的回顧與展望」學術茶話會。活動匯聚來自香港、中國內地、台灣及澳門的學者，就大灣區教育發展、文化傳承及人工智能教育等議題展開交流，並由金耀基教授擔任主題演講嘉賓。

Qing Shan Wan Pan · Ming Jia Ya Tan
青山灣畔 • 名家雅談

The Department of Chinese Literature hosted the"Qing Shan Wan Pan · Ming Jia Ya Tan" lecture series on 14 July 2026, featuring seven Hong Kong and Macau scholars who shared research on classical literature, Confucian studies, digital humanities and East Asian cultural exchange.

中國文學系於 7 月 14 日舉辦「青山灣畔 • 名家雅談」講座，七位港澳學者主講古典文學、儒家研究、數字人文及東亞文化交流等議題，講座獲得《大公報》專文報導。





Annual Academic Symposium and Retreat
年度學術講座暨退修會

The Department of Chinese Literature held its Annual Academic Symposium and Retreat on 23 July 2026, bringing together nine distinguished external scholars to discuss topics including Sinology, language education, South China history, literature and AI applications in the humanities.

中國文學系 7 月 23 日舉辦年度學術講座暨退修會，共九位校外著名學者交流國學、語言教學、華南歷史、文學及 AI 應用等。活動在《紫荊雜誌 • 紫荊號》專文報導。

Department of Journalism and Communication 新聞及傳播學系

The Department of Journalism and Communication co-organised the HKAECT International Conference 2026 titled "EdTech: Revolutionising Education Through Technology"
新聞及傳播學系協辦 HKAECT 2026 國際會議
主題為「教育科技：以科技革新教育」



The Department of Journalism and Communication co- organised the HKAECT International Conference 2026 (10-12 June 2026) on the theme "EdTech: Revolutionising Education Through Technology". The conference promoted international collaboration and knowledge exchange in educational technology, with Prof. FUNG Kam-wing delivering a keynote speech on the transformative role of technology in education.

新聞及傳播學系於 2026 年 6 月 10 至 12 日協辦 HKAECT 2026 國際會議，會議主題為「教育科技：以科技革新教育」。是次會議推動教育科技領域的國際協作與知識交流，馮錦榮教授並發表主題演講，闡述科技在教育改革中的轉型作用。

Faculty Of Business
商學院

Department of Business Administration 工商管理學系

Research Seminars 「毓忠講座」sponsored and named by Lu's Foundation Limited
呂氏基金有限公司冠名贊助「毓忠講座」



During the Spring Semester of AY2025/26, the Faculty of Business hosted two engaging research seminars「毓忠講座」sponsored and named by Lu's Foundation Limited. The first seminar, "Sentiment or Animal Spirits in the Financial Markets' Zoo?", was delivered by Dr. YUAN Zhining, Fernando on 14 April 2026 and examined whether market sentiment or "animal spirits" constitutes a meaningful factor in China's commodity futures market. Using a BERT–BiLSTM–attention framework, the study demonstrated the predictive value of media sentiment for portfolio returns and trading strategies.

在 2025/26 學年春季學期，商學院舉辦了兩場由呂氏基金有限公司冠名贊助的「毓忠講座」。首場講座於 2026 年 4 月 14 日由袁稚寧博士舉行主講，題為《金融市場動物園中的情緒或動物精神？》，探討市場情緒或「動物精神」是否為中國商品期貨市場的重要影響因素。研究運用 BERT—BiLSTM—Attention 模型，證明媒體情緒對投資組合回報及交易策略具有顯著的預測能力。



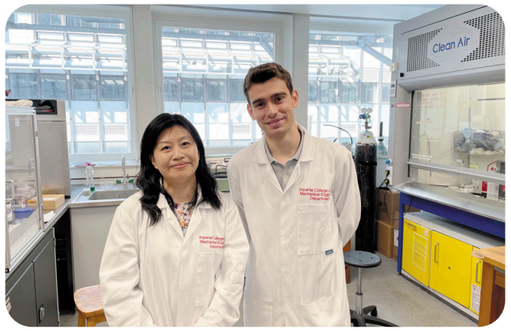
The second seminar, "A System Approach to Sustainable Food Consumption," was presented by Dr. YIP Sau Chun, Cynthia on 29 April 2026 and explored sustainable meat consumption as an interconnected health, environmental, and social challenge, integrating systematic reviews, meta-analyses, comparative assessments, and a Hong Kong public survey. Both seminars attracted enthusiastic audiences, stimulated lively discussion, and generated valuable interdisciplinary insights.

第二場講座，於 2026 年 4 月 29 日由葉秀珍博士主講，題為《可持續的食物消耗系統性研究》，以可持續肉類消費為主題，從健康、環境及社會三個相互交織的層面展開探討，並整合系統性文獻回顧、統合分析、比較評估以及香港公眾問卷調查的研究結果。兩場講座均反應熱烈，不僅促進了深入的學術討論，亦為跨學科研究交流提供了寶貴契機。

Faculty Of Science And Engineering
理工學院

Department of Civil Engineering 土木工程學系

Dr. LEE Siu Lan, Celine visited Imperial College London
李小蘭博士訪問倫敦帝國學院





Dr. LEE Siu Lan, Celine had been invited to visit Imperial College London, a world-renowned university, as a visiting researcher from 19 June to 29 July, 2026.

During this academic visit, Dr. LEE conducted cutting-edge research focusing on the adsorption mechanisms of pollutants on oxide surfaces, aiming to advance knowledge in the fields of environmental and civil engineering. This visit provided a valuable platform for scholars from both institutions to share expertise, discuss research progress, and explore potential avenues for collaboration. Furthermore, it deepened the scientific research partnership between Hong Kong Chu Hai College and Imperial College London, creating more opportunities for joint research projects, co-authored academic publications, and scholarly exchanges.

李小蘭博士受邀於 2026 年 6 月 19 日至 7 月 29 日期間以訪問研究員身份遠赴世界知名大學倫敦帝國學院進行學術訪問。

學術訪問期間，李博士開展污染物在氧化物表面吸附機制的前沿研究，冀為環境及土木工程領域增進新知。是次訪問為兩校學者提供交流專長、研討進展及探索合作的重要平台，並將深化香港珠海學院與倫敦帝國學院的科研夥伴關係，為聯合研究、共同發表及學術互訪創造更多機遇。

Department of Computer Science 資訊科學系

Seminar Series on Artificial Intelligence Applications in Health Science and Dental Science
「人工智能於健康科學及牙科科學之應用」研討會系列

The Department of Computer Science, in collaboration with Saint Francis University, co-hosted a three-day seminar series on "Artificial Intelligence Applications in Health Science and Dental Science" from 27 to 29 May 2026, funded by Inter-Institutional Development Scheme of the RGC. The event brought together international scholars and professionals to discuss AI applications in healthcare, nursing and dentistry, and concluded with a student workshop promoting hands-on learning and interdisciplinary collaboration.

資訊科學系聯同聖方濟各大學在研究資助局「跨院校發展計劃」資助下，於 2026 年 5 月 27 至 29 日合辦為期三天的「人工智能於健康科學及牙科科學之應用」研討會系列。活動匯聚國際學者與專業人士，探討人工智能在醫療、護理及牙科領域的應用，並以學生工作坊作結，推動實踐學習與跨學科協作。





Ng Teng Fong • Sino Group Belt and Road Research Institute
黃廷方 • 信和一帶一路研究院



Exploring Global Issues: Academic Events in Review
聚焦全球議題：學術活動回顧

NSBRRI organised 42 academic events, including 14 workshops, 14 seminars, 6 lectures, 4 forums, 1 major conference, 2 book talks, and 1 briefing session for the academic year 2025/26. A significant portion centered on Hungary, with 10 workshops exploring its history, geopolitics, trade, and BRI role, featuring Dr. David Görömbölyi. Regional security in the Middle East and Central Asia was another key focus, with 9 seminars on Afghanistan, Gaza, and the Iran crisis, featuring experts including Afrasiab Khattak, Syed Muhammad Fakhar, and Dr. Haytham Mouzahem. In finance and trade, there were 8 events organised on IPOs, digitalization, and cross-border e-commerce.

黃廷方 • 信和一帶一路研究院於 2025/26 學年共舉辦 42 項學術活動，包括 14 場工作坊、14 場研討會、6 場講座、4 場論壇、1 場大型國際會議、2 場新書分享會，以及 1 場簡報會。其中，相當部分活動聚焦於匈牙利研究。中心共舉辦 10 場工作坊，探討匈牙利的歷史、地緣政治、貿易發展及其在「一帶一路」倡議中的角色，並邀請 Dr. David Görömbölyi 擔任主講嘉賓。中東及中亞地區安全形勢亦是另一重點研究範疇。中心舉辦了 9 場研討會，涵蓋阿富汗、加沙及伊朗危機等議題，邀請了 Afrasiab Khattak、Syed Muhammad Fakhar 及 Dr. Haytham Mouzahem 等專家分享真知灼見。在金融與貿易方面，中心舉辦了 8 項活動，探討首次公開募股（IPO）、數碼化轉型及跨境電子商務等熱門議題。

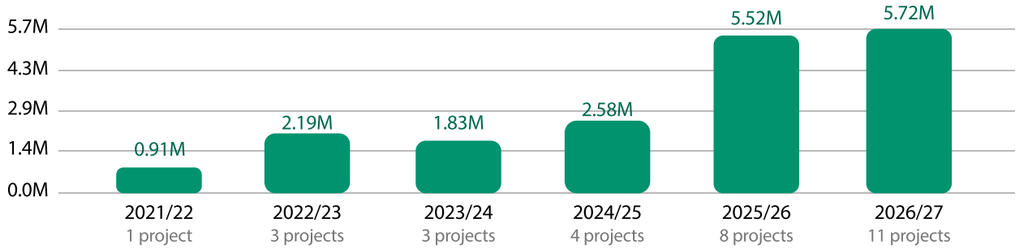




PUBLICATIONS AND ACHIEVEMENTS
學術發表與成果

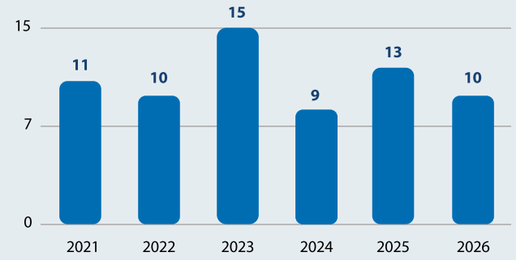
Competitive Research Grant Awards and Project Numbers, 2021-2026
2021-2026年競逐研究資助獲批金額及數目

30 awarded projects 30個獲資助項目 **Total grant 總金額 HK$ 18,753,053**



Year 年度	Projects 項目	Grant金額(HK$)
2021/22	1	914,925
2022/23	3	2,190,025
2023/24	3	1,826,213
2024/25	4	2,580,967
2025/26	8	5,517,898
2026/27	11	5,723,025
Total 合共	**30**	**18,753,053**

Number of Q1 Journal Papers by Year, 2021-2026
2021-2026年Q1期刊論文數目



Year 年	No. of Papers 論文數目
2021	11
2022	10
2023	15
2024	9
2025	13
2026	10
Total 合共	**68**

Research Grants Council Competitive Research Funding Schemes for the Local Self-financing Degree Sector : Award Summary
研究資助局本地自資學位界別競逐研究資助計劃：獲批項目概覽

30 Awarded Projects 個獲資助項目

Year 年度	Faculty 學院	Principal Investigator (PI) 首席研究員	Project Title 項目名稱	Amount (HK$) 金額（HK$）
2026/2027				
2026/2027	FASS 文學與社會科學院	Dr. CHANG Huilin 常慧琳博士	Sealing Immortality: A Study of 19th-Century Manuscript Seal Impression Catalogues 金石不朽：十九世紀稿本印譜研究	352,978
2026/2027	FASS 文學與社會科學院	Dr. FONG Keng-seng 馮傾城博士	The Globality of Immortal Poetry: Translation, Reception, and Dissemination of Li Bai's and Du Fu's Poetry in the Portuguese-Speaking World 不朽詩歌的全球性：李白與杜甫詩歌在葡語世界的翻譯、接受與傳播	550,686
2026/2027	FASS 文學與社會科學院	Dr. WANG Yizhou 汪一舟博士	Retreat through Desire: Courtesan Portraiture and Gendered Bodies in Early Modern China 寓隱於色：近世中國的名妓肖像、性別與身體	467,783
2026/2027	FASS 文學與社會科學院	Dr. WANG Yongxi 王永曦博士	Hydraulic Infrastructures, Social Change and State Governance in the Guanzhong–Hanzhong Region (1500–1860) 關中—漢中地區的水利基礎設施、治理與社會變遷（1500-1860）	687,375
2026/2027	FASS 文學與社會科學院	Dr. ZHANG Huiyan 張慧岩博士	Ethnic Minority Representation in Hong Kong's Mandarin Films During the Cold War 冷戰語境下香港國語電影的少數民族書寫	578,458
2026/2027	FOB 商學院	Dr. HE Miao 何淼博士	Information Advantage vs. Strategic Caution: How Common Auditors Shape CAM Narratives After M&A Announcements 資訊優勢與策略性審慎：併購公告後共同審計師對關鍵審計事項敘事的影響	339,019
2026/2027	FOB 商學院	Dr. GU Jingyang 谷靜陽博士	Falling Out of Synchrony: Understanding Hospitalized Employees' Leave and Return to Work 步調中斷：員工住院休假與重返職場之路	375,759
2026/2027	FSE 理工學院	Dr. LIANG Zhiyong 梁智勇博士	Reconstructing New Moralities, Municipality and Spatiality—Three Experiments of Model Housing for Labourers in Shanghai, 1926-1952 重建新道德、市政與空間性——上海勞工模範住宅的三次實驗，1926-1952	546,513
2026/2027	FSE 理工學院	Dr. LIU Wenyu 劉聞宇博士	AI-Enhanced System-Reliability Based Design and Performance Assessment of Integrated Rack-Supported Building Systems 基於人工智慧賦能的整合式貨架支撐建築體系系統可靠度設計與性能評估	685,010
2026/2027	FSE 理工學院	Dr. TSANG Sik-ho 曾錫豪博士	Screen Content Video Quality Enhancement Based on Embedded Coding Information 基於嵌入式編碼訊息的螢幕內容影片品質增強	561,160
2026/2027	FSE 理工學院	Dr. ZHANG Ying 張瑩博士	Viscoelastic Pipe Transient Modeling and PINN-Based Burst Detection for Hong Kong's Water Distribution Networks 面向香港供水管網的黏彈性管道瞬態建模與基於物理資訊神經網路的爆管檢測	578,284
2025/2026				
2025/2026	FASS 文學與社會科學院	Prof. FUNG Kam-wing 馮錦榮教授	Ulugh Beg's Astronomical Achievements and His Legacy in Ming China 兀魯伯天文業績及其對明代中國之影響	554,400
2025/2026	FSE 理工學院	Prof. LO Wai-lun 盧葦麟教授	Seminar Series on Artificial Intelligence applications in Health Science and Dental Science 研討會系列 - 人工智能健康科學與牙科科學應用	184,100
2025/2026	FSE 理工學院	Prof. THILAKARATNE Ruffina Sharmila	Optimized decision-making models for facilitating adaptive reuse of vacant industrial buildings for residential use 優化決策模型–促進空置工業建築適應性再利用為住宅用途	1,301,979
2025/2026	FSE 理工學院	Dr. HSUNG Tai-chiu 熊體超博士	Acoustic-based automated obstructive sleep apnea detection method 基於聲學的自動阻塞性睡眠呼吸中止症檢測方法	1,022,981

Year 年度	Faculty 學院	Principal Investigator (PI) 首席研究員	Project Title 項目名稱	Amount (HKS) 金額（HK$）
2025/2026				
2025/2026	FSE 理工學院	Dr. LEE Celine Siu-lan 李小蘭博士	Assessing Spatiotemporal Variation of Air Pollution in Public Transport Facilities using an Integrated IoT-GIS-based Sensor Monitoring Network in Hong Kong 利用物聯網—地理資訊系統感測器監測網絡對香港公共交通設施空氣品質的時空變化的研究	663,103
2025/2026	FSE 理工學院	Dr. PENG Yixin 彭怡欣博士	IoT-Based Artificial Intelligence Maturity Model for Predicting the Development of Early Strength in Concrete 預測混凝土早期強度發展的物聯網人工智能成熟度模型	692,055
2025/2026	FSE 理工學院	Dr. TOO Ken Wing-tak 杜永德博士	Developing a Metaverse: An Immersive Digital Architecture for Enhanced Teaching and Exploration 開發元宇宙：增強教學與探索的沉浸式數位建築	698,980
2025/2026	FSE 理工學院	Dr. ZHU Yulin 朱禹林博士	Towards Graph-Based Learning System Under Diverse Graph Homophily: Method, Vulnerability and Robustness 適用於多樣圖同構的圖學習系統： 方法論，脆弱性與穩健性	400,300
2024/2025				
2024/2025	FASS 文學與社會科學院	Dr. WANG Yongxi 王永曦博士	Between state and market: War and Tea-Horse trade in the second half of the 16th century 國家與市場之間：戰爭與16世紀後期的茶馬貿易	442,850
2024/2025	FASS 文學與社會科學院	Dr. YAU Kin-yan 邱健恩博士	Exploration of the rewriting of the new revised edition of Jin Yong's Novels by studying his Manuscripts 從金庸新修版手稿探索金庸小說的再創作過程	592,411
2024/2025	FOB 商學院	Dr. GU Jingyang 谷靜陽博士	The Depleted Working Expectant Father: The Impact of Partner's Pregnancy Fluctuation on Expectant Father's Physical and Career Outcomes 被掏空的職場準爸爸：伴侶孕期波動對準爸爸身心健康及職業發展的影響研究	585,220
2024/2025	FSE 理工學院	Dr. LU Yi 盧懌博士	Application of AI-enabled prediction of riverine ecosystem health for sustainable development 人工智慧對河流生態健康的預測在促進可持續發展中的應用	960,486
2023/2024				
2023/2024	FASS 文學與社會科學院	Dr. LEE Kwok-fong 李國芳博士	Idol Culture, Masculinity, and Hong Kong Identity: A Reception Study of the Mirror Phenomenon 偶像文化、男子氣概與香港文化身分: Mirror現象的接受研究	558,943
2023/2024	FOB 商學院	Dr. GU Jingyang 谷靜陽博士	From Broken to Better than Ever: The impact of divorce on leadership emergence 離婚對領導力湧現的影響研究	499,085
2023/2024	FSE 理工學院	Prof. LO Wai-lun 盧葦麟教授	Automatic Landmark Object Extraction and Image-based Visibility Estimation System 自動化地標提取與基於映像的能見度估算	768,185
2022/2023				
2022/2023	FASS 文學與社會科學院	Dr. CHENG Chen-ching 鄭楨慶博士	Nostalgia of Diaspora Music: Conference on the Development of Cantonese Pop Music in the Southeast Asia 海外離散之音與鄉愁：粵語流行音樂在東南亞地區的發展學術研討會	219,175
2022/2023	FSE 理工學院	Dr. HSUNG Tai-chiu 熊體超博士	Automatic multiple level gum disease detection based on deep neural network: algorithm and system 基於深度神經網絡的多層次牙齦疾病自動檢測：算法和系統	1,181,781
2022/2023	FSE 理工學院	Dr. LU Yi 盧懌博士	Application of Artificial Intelligence (AI) techniques in forecasting the variation of sediments in water ecosystem 人工智能技術在水生態環境中對河流泥沙狀態的預測應用	789,069
2021/2022				
2021/2022	FSE 理工學院	Prof. LO Wai-lun 盧葦麟教授	Photovoltaic Panel Model Parameters Estimation and Monitoring by Using Artificial Neural Network 基於神經網絡的太陽能電池模板模型參數估算與監察	914,925

List of Quartile 1 (Q1) Journal Publications, 2024-2026
2024-2026年Q1期刊論文列表

Year 年份	Publication Details 出版資料
2026	
2026	ANDERSSON, D. E., LAI, L. WC., CHUA, M. H., LEUNG, N. TH., CHAN, V. NH., & DAVIES, S. NG. (2026). Reinterpreting the Kowloon Walled City: From a 'cesspool of iniquities' to an entrepreneuria discovery lab. Planning Theory. Advance online publication, https://doi.org/10.1177/14730952261415601
2026	Chau, R. C. W., Gong, Z., Cheng, A. C. C., Mao, K., Thu, K. M., Zhang, R., Ling, Z., Chang, T. H., Tan, H. J., Tsang, H. S. H., Tonetti, M. S., Schwendicke, F., Hsung, R. T. C., & Lam, W. Y. H. (2026). External validation of a mhealth tool for detecting gingival inflammation in community-dwelling older adults. Journal of Dentistry, 173, 106804. https://doi.org/10.1016/j.jdent.2026.106804
2026	Chen, Z., Lei, H., Wei, Z., Lei, W., Wang, K., You, J., Zhang, Q., Li, R. K. Y., Zhou, M., Yuan, Q. & Shi, D., (2026), Effect of ether oxygen atom distribution in the polymer main and side chains on the lithium-ion conductivity of PEG-based polymer electrolytes Chemical Engineering Journal. 538, 176871.http://10.1016/j.cej.2026.176871
2026	Dong, W. L., Hsung, R. T. C., Tsang, H. S. H., Zhu, T. Y., & Lo, W. L. (2026). A novel multimodal hierarchical large language model for enhancing imageand text sequence recommendations in item and user modeling. Big Data and Cognitive Computing, 10(8), 250. https://doi.org/10.3390/bdcc10080250
2026	Fang, X., Liang, J., Mingfang, B. A., Hu, M., Xu, W., & Peng, Y. (2026). Upcycling waste cement paste powder into a composite cement-free heavy metal stabilization binder. Environmental Research, 305(2), 124977. https://doi.org/10.1016/j.envres.2026.124977
2026	Khan, N., Sikandar, H., Falahat, M., Akhtar, N., & Rizvi, S. M. R. (2026). Frugal intelligence for circularity: A systematic review of human-in-the-loop decision support systems in sme circular supply chain optimization. Sustainable Futures, 11, 101838. https://doi.org/10.1016/j.sftr.2026.101838
2026	Kwong, N. W., Chan, Y. L., Huang, Z., & Tsang, S. H. (2026). Multi-branch aesthetic and technical perspectives with cross tri-fusion attention for no- reference audio-visual quality assessment. IEEE Transactions on Circuits and Systems for Video Technology, 36(7), 10260–10275. https://doi.org/10.1109/TCSVT.2026.3674552
2026	Li, X., Chu, Y., Chan, T., Lo, W. L., & Fu, H. (2026). YOLO-ERCD: An Upgraded YOLO Framework for Efficient Road Crack Detection. Sensors, 26(2), 564. https://doi.org/10.3390/s26020564
2026	Lo, W. L., Wong, K. W., Hsung, R. T. C., Chung, H. S. H., Fu, H., Tsang, H. S. H., & Zhu, T. Y. (2026). A Range-Aware Attention Framework for Meteorological Visibility Estimation. Sensors, 26(6), 1893. https://doi.org/10.3390/s26061893
2026	Yao, H., Chung, H. S. H., & Lo, A. W. L. (2026). MPSoC-Based FCS-MPC with Space Vector Preselection and Online Parameter Identification for Matrix Converter. IEEE Transactions on Power Electronics, 41(4), 6757-6770. https://doi.org/10.1109/TPEL.2025.3620949
2025	
2025	Ai, X., Zhu, Y., Zheng, Y., Li, G., Li, J., & Zhou, K. (2025). Revisiting adversarial robustness of gnns against structural attacks: A simple and fast approach. IEEE Transactions on Information Forensics and Security (TIFS), 21, https://doi.org/10.1109/TIFS.2025.3641816
2025	Asay, J. & Saunders, F. (2025). A Minimalist Approach to Truth and Chinese Philosophy. Philosophers' Imprint, 25: 31, 1–17. doi: https://doi.org/10.3998/phimp.5005
2025	Chau, R. C. W., Cheng, A. C. C., Mao, K., Khaing, M. T., Ling, Z., Tew, I. M., Chang, T. H., Tan, H. J., McGrath, C., Lo, W. L., Hsung, R. T. C., & Lam, W. Y. H. (2025). External validation of an ai mhealth tool for gingivitis detection among older adults at daycare centers: A pilot study. International Dental Journal, 75(3), 1970-1978, https://doi.org/10.1016/j.identj.2025.01.008
2025	Chen, Z., Lei, H., Wei, Z., Lei, W., Wang, K., You, J., Zhang, Q., Li, R. K. Y., Zhou, M., Yuan, Q., & Shi, D. (2025). Effect of ether oxygen atom distribution in the polymer main and side chains on the lithium-ion conductivity of peg-based polymer electrolytes. Chemical Engineering Journal, 538, 176871. https://doi.org/10.1016/j.cej.2026.176871
2025	Han, H., Zhang, C., Zhu, L., Singh, P., Hsung, R. T. C., Leung, Y. Y., Komura, T., Wang, W., & Gu, M. (2025). Facial surgery preview based on the orthognathic treatment prediction. Computer Methods and Programs in Biomedicine, 267, 108781. https://doi.org/10.1016/j.cmpb.2025.108781
2025	He, K. Q., Liao, X. G., Lian, H. J., Guan, X., Chen, D. Z., Su, Y. K., Li, R. K. Y., & Liu, C. (2025). Endowing rapid na+ conduction by architecture design of na3zr2si2po12 in composite electrolytes for ultralong lifespan quasi-solid-state sodium metal batteries. Rare Metals, 44, 3795–3805. https://doi.org/10.1007/s12598-024-03213-7
2025	Ku, J. C. K., Lam, W. Y. H., Li, K. Y., Hsung, R. T. C., Chu, C. H., & Yu, O. Y. (2025). Accuracy of detection methods for secondary caries around direct restorations: A systematic review and meta-analysis. Journal of Dentistry, 153, 105541. https://doi.org/10.1016/j.jdent.2024.105541
2025	Lo, W. L., Wong, K. W., Hsung, R. T. C., Chung, H. S. H., & Fu, H. (2025). Meteorological visibility estimation using landmark object extraction and the ann method. Sensors, 25(3), 951. https://doi.org/10.3390/s25030951
2025	Muhammad N., Akhtar, N., Muhammad K. K., & Qaisar S. (2025). Cross-cultural adjustment of chinese expatriates in pakistan: investigating the role of social support as a moderator. Acta Psychologica, 256, Article 105025. https://doi.org/10.1016/j.actpsy.2025.105025
2025	Saunders Jr., F. P. (2025). Xunzi, anthropocentrism, and environmental ethics. Philosophy Compass, e70066. https://doi.org/10.1111/phc3.70066
2025	Shibata, T., & Shum, K. L. (2025). Embedding modularity and openness in global strategy – a case study of a leading air-conditioning company. Journal of Open Innovation: Technology, Market, and Complexity, 11(2), 100554. https://doi.org/10.1016/j.joitmc.2025.100554
2025	Song, Z., Tsang, H. S. H., Hsung, T. C., Zhu, Y., & Lo, W. L. (2025). From market volatility to predictive insight: An adaptive transformer-rl framework for sentiment-driven financial time series forecasting. Forecasting, 7(4), 55. https://doi.org/10.3390/forecast7040055

Year 年份	Publication Details 出版資料
2025	
2025	Zheng, Y, Fu, H; Li, R, Lam, C, Liang, J, Guo, K, Lo, & W. L.(2025).VIOMA: Video-based Intelligent Ocular Misalignment Assessment. IEEE Transactions on Automation Science and Engineering, 22, 12470-12484. https://doi.org/10.1109/TASE.2025.3545870
2024	
2024	Chan, K. H., He, M., Mo, P. L. L., & Zhang, W. (2024). Long-term tax strategy and corporate acquisition payment structure: An analysis based on the book-tax tradeoff theory. Journal of Contemporary Accounting & Economics, 20(3), 100442. https://doi.org/10.1016/j.jcae.2024.100442
2024	Chau, R. C. W., Thu, K. M., Yu, O. Y., Hsung, R. T. C., Lo, E. C. M., & Lam, W. Y. H. (2024). Performance of generative artificial intelligence in dental licensing examinations. International Dental Journal. https://doi.org/10.1016/j.identj.2023.12.007
2024	Chau, R. C. W., Thu, K. M., Yu, O. Y., Lo, E. C. M., Hsung, R. T., & Lam, W. Y. H. (2024). Response to generative ai in dental licensing examinations: Comment. International Dental Journal, 74(4), 897–898. https://doi.org/10.1016/j.identj.2024.02.002
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2024/2025		
2024/2025	**FASS/CBS** 文學與社會科學院/佛學研究中心	**Contribution of HKCHC to the Historical Development of Buddhist Studies in Hong Kong: Collation and Study of Historical Documents and Oral Accounts** 珠海學院於香港佛學發展之貢獻——歷史文獻和口述史料整理與研究
2024/2025	**FASS/CBS** 文學與社會科學院/佛學研究中心	**Religious and Arts – Studies on Immersive Experience of Buddhist Mindfulness (Phase I)** 珠海學院文化體驗空間：宗教藝術 之 佛教正念沉浸式體驗研究計劃 (第一階段)
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List of Abbreviations:

CBS - Centre of Buddhist Studies 佛學研究中心
FASS - Faculty of Arts and Social Sciences 文學與社會科學院
FOB - Faculty of Business 商學院
FSE - Faculty of Science and Engineering 理工學院
NSBRRI - Ng Teng Fong · Sino Group Belt and Road Research Institute 黃廷方· 信和一帶一路研究院

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Discussion Areas and Meeting Booths 討論區與研討廂



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Acknowledgment 鳴謝

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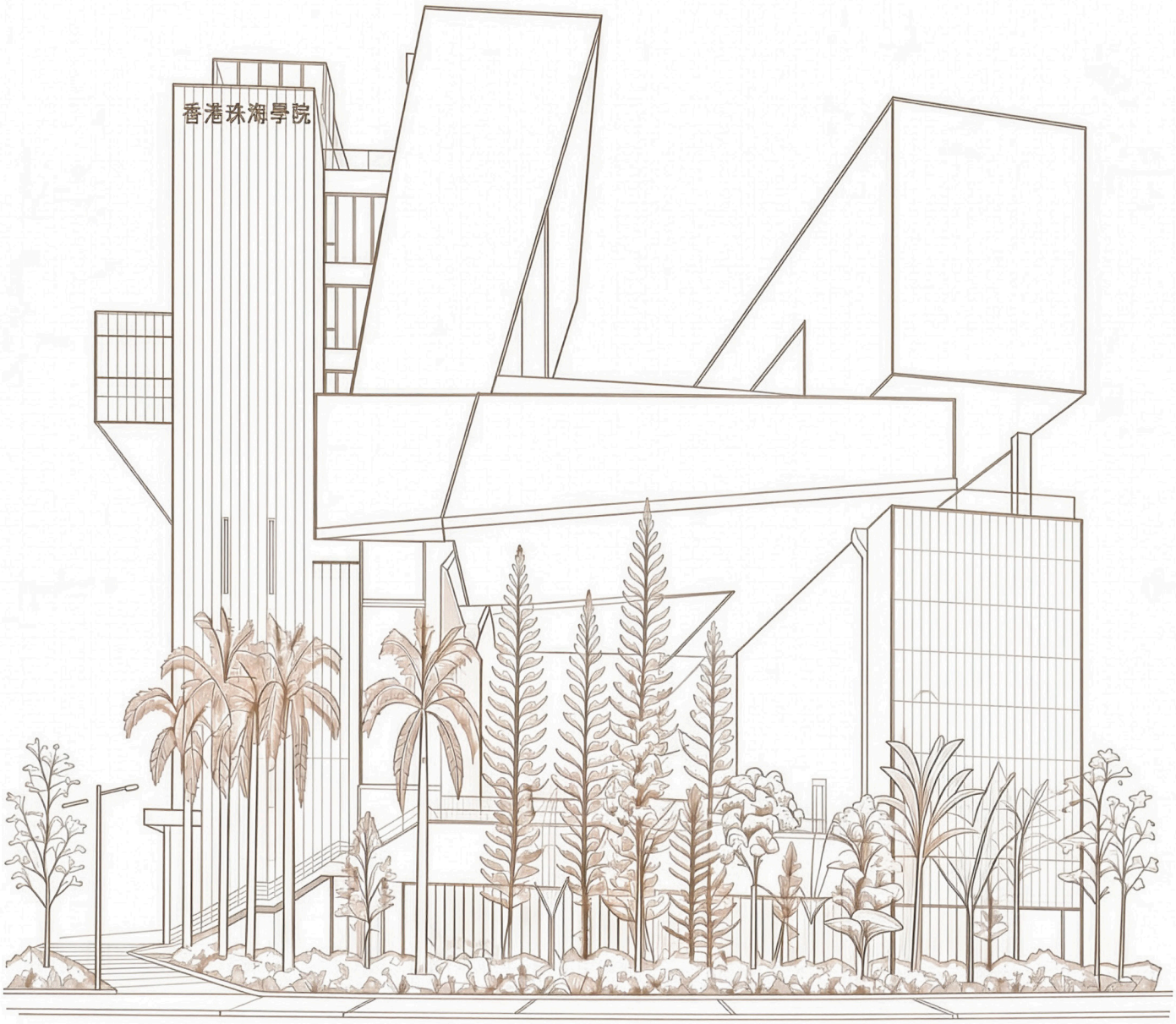

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