

**Third batch of projects recommended for funding support by the Steering Committee of Research, Academic and Industry Sectors One-plus Scheme**  
**第三批獲「產學研 1+計劃」督導委員會建議資助的項目**

|   | <b>Project Title</b><br>項目名稱                                                                                                                     | <b>University</b><br>大學                       | <b>Project Leader</b><br>項目負責人   | <b>Innovation and Technology Field</b><br>創新科技領域 |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------|--------------------------------------------------|
| 1 | Ultra-Fast Photonic Chiplet Engine for Scalable AI Cluster Networks<br>面向可擴展 AI 集群網路的超高速光子晶片引擎                                                   | City University of Hong Kong<br>香港城市大學        | Prof Cheng WANG<br>王騁教授          | Artificial Intelligence and Robotics<br>人工智能及機械人 |
| 2 | PV Plus: Enhanced Photovoltaic Output and Integrated Seawater Resource Extraction<br>“光伏+”——光伏增產與海水資源協同提取                                        |                                               | Prof Jian LU<br>呂堅教授             | New Materials and New Energy<br>新材料及新能源          |
| 3 | Industrial-Scale Intelligent Sensor Commercialization Using Synergistic Generative Micro-Nano Manufacturing Platform<br>基於微納協同生成製造平臺的工業級智能傳感器產業化 |                                               | Prof Wen Jung LI<br>李文榮教授        | Electrical and Electronic Engineering<br>電機及電子工程 |
| 4 | AI-Powered Robot for Retrograde Intrarenal Surgery<br>用於逆行性腎內手術的人工智能機器人                                                                          | The Chinese University of Hong Kong<br>香港中文大學 | Prof Qinyang LIU<br>劉青陽教授        | Artificial Intelligence and Robotics<br>人工智能及機械人 |
| 5 | Ultrafast Multi-material 3D Nano-fabrication Platform Based on Two-photon Projection Technology<br>基於雙光子投影技術的超快多材料 3D 納米製造平台專案                   |                                               | Prof Shih-chi CHEN<br>陳世祈教授      | Advanced Manufacturing<br>先進製造                   |
| 6 | Nucleic Acid-based Nanomedicine for Targeting Treatment of EBV-associated Cancers<br>EBV 相關癌症標靶治療的核酸納米藥物                                         |                                               | Prof Anna Chi Man TSANG<br>曾智敏教授 | Health and Medical Sciences<br>健康及醫藥科學           |

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| 7  | Forging with Clarity: Intelligent In-Situ Laser Melt Pool Monitoring Technology<br>灼見精工：智慧原位熔池精控科技                                                                            | The Hong Kong Polytechnic University<br>香港理工大學               | Prof Hau Chung MAN<br>文效忠教授    | Advanced Manufacturing<br>先進製造                            |
| 8  | WiseLaw: Next Generation Agentic AI for Legal Services<br>智法數科：新一代法律服務智能體系統                                                                                                   |                                                              | Prof Haitian LU<br>陸海天教授       | Computer Science / Information Technology<br>計算機科學 / 資訊科技 |
| 9  | ShieldTrade: Multi-layer Defense System for Secure Web3 Transactions<br>ShieldTrade：安全 Web3 交易的多層防護系統                                                                         |                                                              | Prof Man Ho Allen AU<br>區文浩教授  | Fintech<br>金融科技                                           |
| 10 | New Generation of Miniature Quantum Chip with Embedded System for Cybersecurity<br>新一代嵌入式微型量子芯片及網絡安全應用                                                                        |                                                              | Prof Ai Qun LIU<br>劉愛群教授       | Engineering<br>工程                                         |
| 11 | A Full-stack Large AI Model-driven Computational Pathology Platform for Precision Oncology<br>大模型驅動的全棧式計算病理精準腫瘤平臺                                                             | The Hong Kong University of Science and Technology<br>香港科技大學 | Prof Hao CHEN<br>陳浩教授          | Computer Science / Information Technology<br>計算機科學 / 資訊科技 |
| 12 | Project Feilian: Next-gen Cost-Effective Hyperspectral Remote Sensing Satellite Constellation Empowering a Global Climate Resilient Economy<br>飛廉計劃：新一代低成本高光譜遙感衛星星座驅動全球氣候韌性經濟 |                                                              | Prof Hui SU<br>蘇慧教授            | Space Technology<br>太空科技                                  |
| 13 | H-WBG Power Devices for Tomorrow's Gigawatt Hyper-Dense AI Data Centers<br>H-WBG 功率器件：面向未來吉瓦級超高密度 AI 智算中心                                                                     |                                                              | Dr Yat Hon NG<br>吳逸翰博士         | Electrical and Electronic Engineering<br>電機及電子工程          |

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| 14 | Development and Commercialization of Eco-friendly Energy-saving Elastocaloric Refrigeration Technology<br>節能環保固態彈卡製冷技術的研發與商業化                         | The Hong Kong University of Science and Technology (cont'd)<br>香港科技大學（續） | Prof Qingping SUN<br>孫慶平教授      | New Materials and New Energy<br>新材料及新能源          |
| 15 | Clinical-Grade Contactless Blood Pressure Monitoring on Smartphones: Accelerating Triage and Early Detection<br>臨床級別的無接觸式智能手機血壓監測：加速分診和早期檢測           |                                                                          | Dr Kyle Kwan Long WONG<br>黃君朗博士 | Health and Medical Sciences<br>健康及醫藥科學           |
| 16 | Next-Gen Perovskite-Based Visual Sensors: Empowering AI Perception in Industry, Healthcare and Autonomous Driving<br>新一代鈣鈦礦基視覺傳感器：賦能工業、醫療與自動駕駛的人工智能感知 |                                                                          | Dr Yucheng DING<br>丁宇宸博士        | Electrical and Electronic Engineering<br>電機及電子工程 |
| 17 | RNA Epitranscriptomics and AI: Empowering First-Strike Screening to Prevent Cancer Before Its Onset<br>先發制癌：RNA 表觀轉錄組學與人工智能，賦能癌症篩查及預防                 |                                                                          | Prof Li-Sheng ZHANG<br>張理升教授    | Health and Medical Sciences<br>健康及醫藥科學           |
| 18 | Wafer-Scale Flexible Diamond Membranes<br>晶圓級柔性金剛石薄膜                                                                                                  | The University of Hong Kong<br>香港大學                                      | Prof Zhiqin CHU<br>褚智勤教授        | New Materials and New Energy<br>新材料及新能源          |
| 19 | iEarth                                                                                                                                                |                                                                          | Prof Peng GONG<br>宮鵬教授          | Artificial Intelligence and Robotics<br>人工智能及機械人 |
| 20 | Industrialization of Advanced Cooling Materials for Power Semiconductor<br>先進功率半導體散熱材料的產業化研究                                                          |                                                                          | Prof Mingxin HUANG<br>黃明欣教授     | New Materials and New Energy<br>新材料及新能源          |

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| 21 | Peptide Drug Innovation and Discovery<br>多肽藥物創新及開發                                                              | The University of Hong Kong (cont'd)<br>香港大學（續） | Prof Xuechen LI<br>李學臣教授       | Health and Medical Sciences<br>健康及醫藥科學                    |
| 22 | Liver-in-Cube: Novel Precise Theranostics for Liver Cancer and Diseases<br>肝立方：全新肝癌肝病精準診療平台                     |                                                 | Prof Kwan MAN<br>萬鈞教授          | Health and Medical Sciences<br>健康及醫藥科學                    |
| 23 | AI-powered Platform for 3D Content Generation, Visualization and Interaction<br>AI 驅動的三維內容生成、可視化與互動平台           |                                                 | Prof Dong XU<br>徐東教授           | Computer Science / Information Technology<br>計算機科學 / 資訊科技 |
| 24 | Production of Human Pluripotent Stem Cell-derived Islet Organoid for Diabetes Treatment<br>人類多能幹細胞來源的胰島類器官治療糖尿病 |                                                 | Prof Zhongjun ZHOU<br>周中軍教授    | Health and Medical Sciences<br>健康及醫藥科學                    |