

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

| | Project Title 項目名稱 | University 大學 | Project Leader 項目負責人 | Innovation and Technology Field 創新科技領域 |
|---|--|---|----------------------------------|--|
| 1 | Ultra-Fast Photonic Chiplet Engine for Scalable AI Cluster Networks 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 香港城市大學 | Prof Cheng WANG 王騁教授 | Artificial Intelligence and Robotics 人工智能及機械人 |
| 2 | PV Plus: Enhanced Photovoltaic Output and Integrated Seawater Resource Extraction “光伏+” — 光伏增產與海水資源協同提取 | | Prof Jian LU 呂堅教授 | New Materials and New Energy 新材料及新能源 |
| 3 | Industrial-Scale Intelligent Sensor Commercialization Using Synergistic Generative Micro-Nano Manufacturing Platform 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 李文榮教授 | Electrical and Electronic Engineering 電機及電子工程 |
| 4 | AI-Powered Robot for Retrograde Intrarenal Surgery 用於逆行性腎內手術的人工智能機器人 | The Chinese University of Hong Kong 香港中文大學 | Prof Qinyang LIU 劉青陽教授 | Artificial Intelligence and Robotics 人工智能及機械人 |
| 5 | Ultrafast Multi-material 3D Nano-fabrication Platform Based on Two-photon Projection Technology 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 陳世祈教授 | Advanced Manufacturing 先進製造 |
| 6 | Nucleic Acid-based Nanomedicine for Targeting Treatment of EBV-associated Cancers EBV 相關癌症標靶治療的核酸納米藥物 | | Prof Anna Chi Man TSANG 曾智敏教授 | Health and Medical Sciences 健康及醫藥科學 |

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| 7 | Forging with Clarity: Intelligent In-Situ Laser Melt Pool Monitoring Technology 灼見精工：智慧原位熔池精控科技 | The Hong Kong Polytechnic University 香港理工大學 | Prof Hau Chung MAN 文效忠教授 | Advanced Manufacturing 先進製造 |
| 8 | WiseLaw: Next Generation Agentic AI for Legal Services 智法數科：新一代法律服務智能體系統 | | Prof Haitian LU 陸海天教授 | Computer Science / Information Technology 計算機科學 / 資訊科技 |
| 9 | ShieldTrade: Multi-layer Defense System for Secure Web3 Transactions ShieldTrade：安全 Web3 交易的多層防護系統 | | Prof Man Ho Allen AU 區文浩教授 | Fintech 金融科技 |
| 10 | New Generation of Miniature Quantum Chip with Embedded System for Cybersecurity 新一代嵌入式微型量子芯片及網絡安全應用 | | Prof Ai Qun LIU 劉愛群教授 | Engineering 工程 |
| 11 | A Full-stack Large AI Model-driven Computational Pathology Platform for Precision Oncology 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 香港科技大學 | Prof Hao CHEN 陳浩教授 | Computer Science / Information Technology 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 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 蘇慧教授 | Space Technology 太空科技 |
| 13 | H-WBG Power Devices for Tomorrow's Gigawatt Hyper-Dense AI Data Centers 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 吳逸翰博士 | Electrical and Electronic Engineering 電機及電子工程 |

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| 14 | Development and Commercialization of Eco-friendly Energy-saving Elastocaloric Refrigeration Technology 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) 香港科技大學 (續) | Prof Qingping SUN 孫慶平教授 | New Materials and New Energy 新材料及新能源 |
| 15 | Clinical-Grade Contactless Blood Pressure Monitoring on Smartphones: Accelerating Triage and Early Detection 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 黃君朗博士 | Health and Medical Sciences 健康及醫藥科學 |
| 16 | Next-Gen Perovskite-Based Visual Sensors: Empowering AI Perception in Industry, Healthcare and Autonomous Driving 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 丁宇宸博士 | Electrical and Electronic Engineering 電機及電子工程 |
| 17 | RNA Epitranscriptomics and AI: Empowering First-Strike Screening to Prevent Cancer Before Its Onset 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 張理升教授 | Health and Medical Sciences 健康及醫藥科學 |
| 18 | Wafer-Scale Flexible Diamond Membranes 晶圓級柔性金剛石薄膜 | The University of Hong Kong 香港大學 | Prof Zhiqin CHU 褚智勤教授 | New Materials and New Energy 新材料及新能源 |
| 19 | iEarth | | Prof Peng GONG 宮鵬教授 | Artificial Intelligence and Robotics 人工智能及機械人 |
| 20 | Industrialization of Advanced Cooling Materials for Power Semiconductor 先進功率半導體散熱材料的產業化研究 | | Prof Mingxin HUANG 黃明欣教授 | New Materials and New Energy 新材料及新能源 |

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