THE UNIVERSITY OF HONG KONG
FACULTY OF SCIENCE

HKU-TCL Joint Research Centre for Artificial Intelligence

General Funding Scheme

Funding scheme	General Funding Scheme	
Funding body	HKU-TCL Joint Research Centre for Artificial Intelligence	
Call for application	All year round	
Eligibility for application	Assistant Professor or above. Each applicant could submit at most one proposal as the role of the principal investigator (PI) for each year.	
Funding amount/range	3-level funding allocation: - HK$0.2M for small projects with project duration of 1 year; - HK$1M for standard projects with project duration of around 2 years; and - HK$2-3M for large-scale projects with project duration of more than 2 years. PIs are recommended to consider the project duration, and the number and level of staff required for the project when preparing for budgeting.	
About the scheme	1. Four research directions/areas*: - AI for Social Good - AI for Smart Home - AI for Smart Manufacturing - AI for Natural Sciences 2. PIs should consult and discuss with TCL and/or the Management Committee members before submission for feedback for onward preparation of application and budgeting. Shortlisted PI would be invited to briefly present the project to the Management Committee. 3. A member of TCL would be assigned as Co-I of the awarded project. 4. Reports are required to be provided once awarded: - Weekly/monthly report on milestone achievement - Biannual progress report - Completion report within 3 months after project ends	
Submission	Miss Zita Kwok (HKU)	zkwok@hku.hk
Inquiry	Miss Zita Kwok (HKU)	zkwok@hku.hk
	Mr. Karl Li (TCL)	karlli@tcl.com

**Please refer to the next page for details on each direction/area.*

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The 4 research directions/areas:

AI for Social Good 促进社会公益的人工智能研究

- Assistive Technology for Well-being 健康辅助技术
- Computational Social Science 计算社会科学
- Environmental Sustainability 环境可持续性发展
- Health and Well-being 健康相关研究
- Affective Computing 情感计算
- Mobility/Transportation 机动性/运输研究
- Networks and Social Networks 网络和社交网络
- Security and Privacy 安全和隐私
- Social Development 社会发展
- Urban Planning 城市规划
- Autonomous Driving 自动驾驶

AI for Smart Home 智能家居的人工智能研究

- On-Device AI 终端人工智能
- Wireless Sensing and Perception 无线感知
- Human-Computer Interaction 人机交互
- Speech & Natural Language Processing 语音和自然语言处理
- 3D Computer Vision 3D 计算机视觉
- Adversarial Attacks & Robustness 对抗性攻击和稳健性研究
- Biometrics, Face, Gesture & Pose Recognition 生物识别、面部、手势和姿势识别
- Computational Photography, Image & Video Synthesis 计算摄影、图像和视频合成
- Low Level & Physics-based Vision 低层视觉和基于物理的视觉
- Multi-Modal Technology 多模态技术
- Object Detection & Categorization 目标检测和分类
- Scene Analysis & Understanding 场景分析与理解
- Video Understanding & Activity Analysis 视频理解和活动分析
- Visual Reasoning & Symbolic Representations 视觉推理和表征学习
- Augmented Reality & Virtual Reality 增强现实和虚拟现实

AI for Smart Manufacturing 智能制造的人工智能研究

- Industrial Internet of Things 工业物联网
- Industrial Big Data 工业大数据
- Industrial AI Visual Inspection 工业 AI 视觉检测
- Automatic Defect Detection and Classification 自动缺陷检测和分类
- Supply Chain Coordination and Optimization 供应链协调与优化
- Predictive Maintenance 预测性维护
- Human–Cyber–Physical System 人机物理系统
- Information and Communication Technology 信息和通信技术
- Flexible Manufacturing Technology 柔性制造技术

AI for Natural Sciences 自然科学的人工智能研究

- AI for Material Science 材料科学的人工智能研究
- Biology & Cell 生物细胞学
- Brain-Sensing and Analysis 大脑感知和分析
- Language Acquisition 语言习得
- Gene Technology 基因技术
- Quantum Artificial Intelligence 量子人工智能