

Dean's Award for Outstanding Achievement in Research Funding 2026

(Complete list of projects in the past five calendar years)

Awardee (Dept)	Project Title (Funding Scheme)
Prof. Meng NI (BEEE)	Development of High Performance and Durable Solid Oxide Electrolysis Cells (SOECs) for Coupling with Fischer-Tropsch (F-T) Reactor for Green Synthetic Liquid Fuel Production <i>(NSFC/RGC Collaborative Research Scheme)</i>
Prof. Shengwei WANG (BEEE)	Development of Networked Field-level Process Control Architectures and Strategies for Building HVAC Systems in IoT and 5G Cellular Network Environments <i>(RGC General Research Fund)</i>
	Performance assessment and optimization of building energy flexibility as spinning reserve in conventional and future high-renewable power systems <i>(RGC General Research Fund)</i>
	Development and full-scale onsite validation of AI-empowered supply-based cooling management strategies for grid-interactive and energy-efficient buildings <i>(RGC General Research Fund)</i>
Prof. Tommy WEI (BEEE)	Development of A Colorimetric and Photometric Characterization Platform for Binocular VR/AR Headsets <i>(RGC Collaborative Research Fund)</i>
Prof. Linda XIAO (BEEE)	高密度城市中建筑综合能源系统的智能管理技术研发 Development of Smart Energy Management Technologies for Building Complex Energy Systems in High-Density Cities (SEM4City) <i>(MOST (國家重點研發計劃) - 政府間科技合作專案)</i>
	Development of a New Spatio-Temporal Data-Driven Methodology for Optimal Control and Health Monitoring of Central Air Conditioning Systems <i>(RGC General Research Fund)</i>
Prof. Ruoyu YOU (BEEE)	AI-empowered wind field simulation for sustainable urban microclimate design <i>(RGC Young Collaborative Research Grant)</i>

Prof. Yi-Qing NI (CEE)	INTACT: Intelligent tropical-storm-resilient system for coastal cities <i>(RGC Theme-based Research Scheme)</i>
Prof. Hai GUO (CEE)	Is the usual social distance sufficient to avoid airborne infection of expiratory droplets in indoor environments? <i>(RGC Collaborative Research Fund)</i>
	Unravelling the Black Box between Air Pollution and Public Health for Transformative Air Quality Management (<i>sub-project</i>) <i>(RGC Theme-based Research Scheme)</i>
Prof. Shao-Yuan LEU (CEE)	WASTES to WINGS – Constructing a High-Throughput Sustainable Aviation Fuel (SAF) Research Platform to Facilitate Zero Carbon Air Travel in Hong Kong <i>(RGC Research Impact Fund)</i>
Prof. Zhen-Yu YIN (CEE)	Machine Learning-Aided Multiscale Approach for Recycled Solid Waste Mixtures Composed of Easily Crushable Rigid Aggregates and Highly Deformable Soft Aggregates <i>(RGC General Research Fund)</i>
	Multiscale Multiphysics Study of Scour-induced Bearing Capacity Degradation of Suction Anchor Foundation in Sandy Seabed <i>(RGC General Research Fund)</i>
	Geotechnical Resilience through Intelligent Design <i>(European Union (EU) - Hong Kong Research and Innovation Cooperation Co-funding Mechanism by the RGC)</i>
Prof. Tao YU (CEE)	FRP-Reinforced Concrete Structures for Marine Environments: Material and Structural Innovations for Ductility Enhancement and Prefabricated Construction <i>(NSFC/RGC Collaborative Research Scheme)</i>
Prof. C.S. POON (CEE)	Development of Modular Integrated 3D-printed Concrete Construction (MI3DC) <i>(RGC Research Impact Fund)</i>
Prof. You DONG (CEE)	Advancing Compound Hazard Resilience and Adaptation for Urban Building Community in a Changing Climate <i>(RGC Collaborative Research Fund)</i>
Prof. Ling JIN (CEE)	Advanced Single-Particle Mass Spectrometer to Uncover Hidden Aerosol Complexity Impacting Health and Climate <i>(RGC Collaborative Research Fund)</i>
Prof. Shipeng ZHANG (CEE)	Development of Modular Integrated 3D-printed Concrete Construction (MI3DC) (<i>sub-project</i>) <i>(RGC Research Impact Fund)</i>
	Development of Lightweight Water-foamed Concrete with Ultrafine Pores using Ultrasonic Carbonation <i>(RGC Early Career Scheme)</i>
	Upcycling the incineration fly ash into eco-friendly construction materials: a pathway development of detoxification, valorization, and prototyping <i>(Innovation and Technology Fund - PRP)</i>

<p>Prof. Jianli CHEN (LSGI)</p>	<p>Multi-sensor monitoring, geophysical interpretation and prediction of sea level rise in Hong Kong <i>(RGC Collaborative Research Fund)</i></p>
<p>Prof. Wu CHEN (LSGI)</p>	<p>GNSS Kinematic Reference Stations with Chip Scale Atomic Clock Aiding for Offshore Real-Time Kinematic (RTK) Positioning <i>(RGC General Research Fund)</i></p>
	<p>Mitigation of Multiple Jamming Attacks for Low-cost GNSS Receivers <i>(RGC General Research Fund)</i></p>
	<p>An AI-enabled Geospatial Platform for Smart Facility Management and Smart Mobility of People with Disabilities (PwDs) - <i>(sub-project)</i> <i>(RGC Research Impact Fund)</i></p>
	<p>Utilizing LEO Communication Satellite Opportunity Signals for Alternative PNT Service <i>(RGC General Research Fund)</i></p>
<p>Prof. John SHI (LSGI)</p>	<p>Healthy and Resilient City with Pervasive LoCHs <i>(sub-project)</i> <i>(RGC Theme-based Research Scheme)</i></p>
	<p>Spatiotemporal prediction and real-time early warning of COVID-19 onset risk <i>(RGC Collaborative Research Fund)</i></p>
<p>Prof. Wallace LAI (LSGI)</p>	<p>Uncertainties Modelling on Depth Measurements of Buried Circular Objects in Ground Penetrating Radar Survey <i>(RGC General Research Fund)</i></p>
	<p>City-scale Road GPR's Early Warning and Diagnosis of Invisible Void <i>(Innovation and Technology Fund – LSCM)</i></p>
	<p>Large-scale Mapping of Watermains Leakage by Ground Penetrating Radar and Instantaneous Frequency Analysis <i>(RGC General Research Fund)</i></p>

Prof. Bo WU (LSGI)	Integrated Image-Based Approaches for Optimized 3D Modeling of Asteroids from Remote and In Situ Observations <i>(RGC General Research Fund)</i>
	Three-Dimensional Semantic Mapping of Planetary Surfaces from Multi-Modal Data for Enhanced Scene Interpretation <i>(RGC General Research Fund)</i>
	Satellite–Descent–Ground Image Matching for Enhanced Positioning of Rovers and Astronauts on Planetary Surfaces <i>(RGC General Research Fund)</i>
	Reviving the Past: AI-Empowered, Semantic-Enhanced Restoration and 3D Reconstruction of Historical Aerial Photographs of Hong Kong <i>(RGC General Research Fund)</i>
Prof. Shuo WANG (LSGI)	Elucidating the mechanisms and dynamics of flash drought from the perspective of land–atmosphere feedbacks <i>(RGC General Research Fund)</i>
	Unraveling the Spatiotemporal Non-stationarity and Causal Mechanisms of Extreme Precipitation in a Changing Climate <i>(RGC General Research Fund)</i>
	Advancing Compound Hazard Resilience and Adaptation for Urban Building Community in a Changing Climate (<i>sub-project</i>) <i>(RGC Collaborative Research Fund)</i>