Dean's Award for Outstanding Achievement in Research Funding 2024

(Complete List of Projects)

Awardee (Dept)	Allocation Date	Project Title (Funding Scheme)
Dr Xinyan HUANG	1 Jul 2023 the Persistent Deep-Layer Smouldering Peat Fires	1 ,
(BEEE)	24 Aug 2023	阴燃林火 (NSFC Excellent Young Scientist Fund (HK & Macau))
	11 Feb 2020	Solving Public Housing Problem in Hong Kong by Adopting Modular Integrated Construction (MiC) to Build the Transitional House (CEPU Public Policy Research Fund)
	21 Mar 2022	Trial: Vision-based Badminton Match Analysis (Innovation Technology Fund – LSCM)
Prof. Heng LI (BRE)	21 Feb 2023	Construction Progress Monitoring and Contract Performance by Integrating Computer Vision and Blockchain (Innovation Technology Fund – TCFS)
	7 Mar 2023 Using Carbon Regulation to Promote the Modular Integrated Construction in Hor Evolutionary Game-based Stu (CEPU Public Policy Research II) Non-invasive non-contact mental worklo monitoring of construction equipment	Using Carbon Regulation to Promote the Adoption of Modular Integrated Construction in Hong Kong: An Evolutionary Game-based Study (CEPU Public Policy Research Fund)
		Non-invasive non-contact mental workload and stress monitoring of construction equipment operators (RGC General Research Fund)
Drof Cooffrey SHEN	1 Jul 2022	Stakeholder Analysis in the Dynamic and Complex Environment of Megaprojects (RGC General Research Fund)
Prof. Geoffrey SHEN (BRE)	10 Nov 2023	The Mechanism and Policy Optimisation of Multi- stakeholder Cross-regional Collaboration in the Construction Industry of the GBA (NSFC/RGC Collaborative Research Scheme)

Prof. Meng NI	5 Jan 2021	Durable and high-performance zinc-air flow batteries for energy storage (RGC Collaborative Research Fund)	
(BRE)	1 Jul 2023	Triple conducting cathode materials with in-situ exsolution of nanoparticles and anion doping for protonic ceramic fuel cells (RGC General Research Fund)	
Prof. Zhen LENG	1 Jul 2023	Strength Formation Mechanism Characterization and Performance Optimization of Waterborne Epoxy Modified Asphalt Emulsion as A High-performance Low- carbon Paving Binder (RGC General Research Fund)	
(CEE)	22 Dec 2023	Durable Low-carbon Asphalt Pavement Built with Recycled Waste Polyolefin Plastics through Reactive Extrusion (RGC Research Impact Fund)	
	Temperature Behavior of Long-span Cable-stayed Bridge through the Integration of Field Monitoring and Advanced Computational Techniques (RGC General Research Fund)		
Prof. Yong XIA (CEE)	22 Nov 2023	Digital Twin-based Long-span Bridge Health Monitoring (Smart Traffic Fund)	
	22 Dec 2023	Enhancing energy harvesting and typhoon resilience of offshore wind turbines in the Guangdong-Hong Kong-Macau Greater Bay Area under climate change (RGC Research Impact Fund – sub-project)	
Doef Common 71111	1 Jul 2023	Self-centering Seismic-resistant Eccentrically Braced Frames with Superelastic Shape Memory Alloy Angles (RGC General Research Fund)	
Prof. Songye ZHU (CEE)	10 Nov 2023	Develop Next-generation Typhoon-resistant Deep-sea Offshore Floating Hybrid Wind-wave Energy Converters: From Coupling Load Mechanism to Vibration Mitigation Technology (NSFC/RGC Collaborative Research Scheme)	
	Dynamic Response and Vulnerability of Coastal Bridg Subjected to Wave Impacts using Coupled Simulation Experiment, and Deep Learning (RGC General Research Fund)		
Dr You DONG (CEE)	13 Jul 2023	INTACT: Intelligent tropical-storm-resilient system for coastal cities (CEE-3) (RGC Theme-based Research Scheme – sub-project)	
	13 Oct 2023	Smart and Flexible Climate Change Adaptation of Coastal Infrastructure (SMACHA) (ANR/RGC Joint Research Scheme)	

Dr Huan-Feng DUAN	1 Jul 2019	Development of a holistic transient-based method for characterizing and diagnosing different pipe anomalies in urban water supply pipeline systems (RGC General Research Fund)
(CEE)	5 Jan 2023	Coastal Urban Flooding under Climate Change: Evolution Mechanisms and Intelligent Analysis (RGC Young Collaborative Research Grant)
	1 Jul 2019	Metabolites induced thermochemical lignin modification to facilitate cellulolysis of lignocellulosic substrate in anaerobic process (RGC General Research Fund)
Dr Shao-Yuan LEU (CEE)	20 Sept 2021	Reducing transmission of novel coronavirus and other infectious diseases using food waste-derived medical textiles via electrospinning for healthcare apparel and personal protective equipment (CEE) (RGC Collaborative Research Fund – sub-project)
	4 Jan 2022	Study of Carbon Sequestration in Hong Kong's Vegetation: from Present to Future Prediction under Climate Change (CEE) (RGC Collaborative Research Fund – sub-project)
	1 Dec 2023	Study of Ammonia Pretreatment-Power Generation System toward Complete Valorization of Food Waste Digestate (Green Tech Fund)
Dr Alessandro STOCCHINO	Marine litter transport in the Pearl River Esta impact on Hong Kong waters: formulation and of a novel Lagrangian numerical mo	Marine litter transport in the Pearl River Estuary and its impact on Hong Kong waters: formulation and application of a novel Lagrangian numerical model (RGC General Research Fund)
(CEE)	5 Jan 2023	Hong Kong Coastal HF-Radar Network (RGC Collaborative Research Fund)
		Direct Observation of the Evolution of Joint Surface Roughness and Associated Seismic Signatures (RGC Early Career Scheme)
Dr Qi ZHAO (CEE)	1 Jul 2022	Hydromechanical fatigue of rock joints under fluctuating pore pressure: microscopic observation under micro-CT and constitutive modelling (RGC General Research Fund)
	1 Jul 2023	Quantifying shear induced joint surface damage using acoustic emission and machine learning (RGC General Research Fund)

Prof. Xiao-li DING (LSGI)	1 Jul 2022	New Multi-Temporal InSAR Technique for Monitoring
		Stability of Civil Infrastructures
		(RGC General Research Fund)
	24 Aug 2023	基于时序 PolInSAR 技术的地下水管道
	(Date of	探漏研究
	Approval)	(NSFC Key Program (重點項目))
Dr Xintao LIU (LSGI)	1 Jul 2019	User Satisfaction-based Urban Freight Sharing
		Optimization Using Crowdsourced Big Data and Machine
		Learning
		(RGC Early Career Scheme)
	22 Dec 2023	An AI-enabled Geospatial Platform for Smart Facility
		Management and Smart Mobility of People with
		Disabilities (PwDs)
		(RGC Research Impact Fund)