The 11th Hong Kong University Student Innovation and Entrepreneurship Competition — Award List

Outstanding Organization Award	The Chinese University of Hong Kong
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Innovation			
Crond Drive	CHILIK	Next Generation Data Center Interconnects with Integrated Neuromorphic	WANG Benshan, XIAO Qiarong, XU
Grand Prize	CUHK	Photonic Processor	Tengji, FAN Li, LIU Shaojie

Energy, Environmental and Chemical Engineering			
Award	Institution	Project Name	Name of Participant(s)
First Prize	PolyU	Highly Intergrated Wireless Ultrasonic Motor System for Fully Enclosed	XIE Xiaotian, XUE Zhiwei, DUAN Ye
FIISCFIIZE		Environments	
	CityU	Industrial Approach to Cost-Effective Enzyme-Inspired Nanomaterials for	CHENG TIANQI, WU XINYU, ZHAO CHAO,
		Regulating	CUI YIFAN, XIAO ZHANPING
		Antibiotic Resistance Bacteria/Genes in Wastewater Treatment with High	
Canad Drive		H2O2 Utilization	
Second Prize	CityU	Assessing the Capabilities of TOFD in Identifying Defects in PE Butt Fusion	SUTEDJO Avrilia
		Joint: Revolutionizing Pipeline Safety in Hong Kong	
	PolyU	High efficiency inorganic perovskite organic tandem	HAN Yu, Zhang Jiyao, Cheng Lei
		photovoltaic	
	HKMU	A self powered wearable electrochemical sensor based on composite	Sun Jing
		conductive hydrogel medium for detection of lactate in human sweat	
	HKU	Flexible Scheduling Strategy of Electric Vehicles Based on V2G	Li Yicheng, Gao Yu
Third Prize		Technology Enhancing Renewable Energy Integration and Grid	
		Load Optimization	
	CityU	High Performance Perovskite Indoor Photovoltaics Self Sustaining Power	YU Zexin, WANG Yan, GONG Jianqiu
		Modules for Next Generation IoT Ecosystems	

	PolyU	Development and optimization of electrodes with low cost in	WU Lizhen, WANG Qing, DENG Guangrong,
		anion exchange membrane electrolyzers for efficient green	ZHAO Zhihao
		hydrogen production	
	HKUST	A City Scale Building Energy Simulation Platform	Shihong Zhang
	PolyU	Synthesis of Eco Cement Using Waste Glass Powder and	KLOSSNER Cleo
		Recycled Concrete Fine	
Merit Prize	CityU	Experimental study on boiling heat transfer characteristics and	LIANG Jiajun
		bubble dynamics of surfactant aqueous solution	
	HKU	Adaptive Modular Platforms for Climate-Resilient Urbanism	Yang Yiru, Zhou Yiheng
		Information Technology	
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Award	Institution	Project Name	Name of Participant(s)
1 111 01 0		Next Generation Data Center Interconnects with Integrated Neuromorphic	·
Award First Prize	CUHK		·
1 111 01 0	CUHK	Next Generation Data Center Interconnects with Integrated Neuromorphic	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie
7 333 0		Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie
1 111 01 0	CUHK	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao
1 111 01 0	CUHK	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that Target microRNA mRNA Interactions	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao
First Prize	CUHK	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that Target microRNA mRNA Interactions Heterogeneous Multi Robot Systems for Intelligent Marine Life	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao Lin Hin Wang, Wang Pengyu, Zhang Fan,
First Prize	CUHK CUHK HKUST	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that Target microRNA mRNA Interactions Heterogeneous Multi Robot Systems for Intelligent Marine Life	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao Lin Hin Wang, Wang Pengyu, Zhang Fan, Yim Ying Hing, Du Xiawei, Li Jialu, Kui Ka Yu, Li Chun Kit, Leung Ka Chun
First Prize	CUHK	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that Target microRNA mRNA Interactions Heterogeneous Multi Robot Systems for Intelligent Marine Life Observation	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao Lin Hin Wang, Wang Pengyu, Zhang Fan, Yim Ying Hing, Du Xiawei, Li Jialu, Kui Ka Yu, Li Chun Kit, Leung Ka Chun
First Prize	CUHK CUHK HKUST	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that Target microRNA mRNA Interactions Heterogeneous Multi Robot Systems for Intelligent Marine Life Observation Optimal Transmit Signal Design for Multiple Target Sensing Exploiting Prior	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao Lin Hin Wang, Wang Pengyu, Zhang Fan, Yim Ying Hing, Du Xiawei, Li Jialu, Kui Ka Yu, Li Chun Kit, Leung Ka Chun
First Prize	CUHK CUHK HKUST	Next Generation Data Center Interconnects with Integrated Neuromorphic Photonic Processor A Deep Learning Based Web Service for Predicting Small Molecules that Target microRNA mRNA Interactions Heterogeneous Multi Robot Systems for Intelligent Marine Life Observation Optimal Transmit Signal Design for Multiple Target Sensing Exploiting Prior Information	WANG Benshan, XIAO Qiarong, XU Tengji, FAN Li, LIU Shaojie XIAO Huan, ZHANG Yihao Lin Hin Wang, Wang Pengyu, Zhang Fan, Yim Ying Hing, Du Xiawei, Li Jialu, Kui Ka Yu, Li Chun Kit, Leung Ka Chun YAO Jiayi

	HKMU	Smart Glasses for Hearing Impaired in Hong Kong	CHUI Tsz Ching, Lee Chak Yin, YIP On Tik,
	ПКІЙО		WU Long Fung Eugene
	PolyU	SMART Orthopaedic Clinic	JIANG Tianshu, YAN Jin, CHAN Lok Chun, LI
	Polyo		Ho Hin Toby
		DyslexAl	STURM Leo Matthias, Yin Zifu, Ivy, Fung Yik
	PolyU		Hei, Ho Tsz Ming, Ko Tsun Ming, Lau Ho Wai
			Justin
Merit Prize	t Prize HKUST	ShepherdStory a Manga Generator with Highly Consistent Looking	Xuelei Peng, HE Pui San
Ment Prize	пкозт	Characters	
		EyeMirror - The First Home Vision Testing Mirror	TANG Canyu, FENG Hoi Lam, WONG Hei
	HKBU		Wang, WU Guo, LEE Shiyu, Kwok Tak Ming,
			ZHENG Wei, CHEN Siqi

Mathematics and Physics / Mechanics and Control Systems			
Award	Institution	Project Name	Name of Participant(s)
First Prize	CUHK	Magnetic Countertraction System for Endoscopic Submucosal Dissection in Gastrointestinal Tract	Chan Wai Shing, Wong Duncan Alexander
Second Prize	CitvU	Autonomous Energy Routing and Redistribution Technology for Large Scale Battery Storage Systems with Health Monitoring Capabilities	Zhengqi Wei

		Adjusting Tissue Puncture Omnidirectionally In Situ with Pneumatic Rotatable	LIN Botao
	CUHK	Biopsy Mechanism and Hierarchical Airflow Management in Tortuous Luminal	
		Pathways	
		Sea-U-Foil: The World's First Multi-Modal Cross-Domain Marine Vehicle	Zuoquan ZHAO, Ruixin YAN, Bingxin HAN,
	CUHK		Wendi DING, Zixuan GUO, Zongzhou WU,
			Jialiang WANG, Pei WANG
	HKUST	Penguin Buddy	Chan King Chung Bryce, Tam Ho Wang, Yu Hiu
	111031		Lam, Leung Wai Yan, Tam Kwan Yiu
	HKU	Neuromorphic Wavefront Sensor for Instant Large Gradient Optical Field	Wang Chutian, Chen Jingyan, Tian Yunfei,
Third Prize	TIKO	Imaging	Chen Rongzhou
TIMICITIZE	CUHK	A cylindrical Halbach-array-based magnetic actuation system with high	Sun Hongzhe
	COTIK	actuation forces for various magnetic robots	
	CUHK	Save the small scale crisis in Milky Way with a blue tilted early universe model	Jianhao WU
	LUZUCT	An Energy-Saving Passive Evaporative Eco-Cooling Paint For buildings in	KWAN Chak Fung Kevin, WONG Wing Yat,
	HKUST	Hong Kong	LEUNG Pak Hei, HO Yat Cheung
	Dobd	Innovative smart latched control system: from wave energy converter to	WANG Hao
Merit Prize	PolyU	vibration control	
ivient Pnze	HKU	Scalable Machine Vision for Future Smart Cities	Yaping Zhao Juntao QIU
		Progressive Optimization of SOC Estimation Algorithms for Li-ion Batteries in	LOU UNGWEN
	HKU	xEVs Using Deep Neural Networks and Hybrid Architectures	LOOSHVGVVLIV

	Life Sciences			
Award	Institution	Project Name	Name of Participant(s)	
First Prize	CUHK	Fc engineered CD9 antibodies for blood cancers	Ng Wing Hei	
	CUHK		Wang Yuwen, Zhou Zhilong, Cai Runxuan, Liu Jun, He Songlin	
Second Prize	PolyU	Advanced Lung Imaging and Therapy Support System	HUANG Yu Hua, MA Zongrui, XIONG Tianyu	
	CUHK	A Worm-like Nucleic Acid Nanostructure for Gene Delivery and Þndosomal Escape	XIAO Yu	
	CUHK	Coacervates Mediated Delivery System for Cancer Therapy	XU Zhiyi, HU Yuke	
	HKUST	Cilia enhanced flow steerable magnetic guidewire	CHEN Xi, LIU Xu	
Third Prize	CUHK	. 3 ,	Huang Shujie, Zhang Qi, Ji Zeyuan, Zhou Jue, Yang Guanqun	
	CUHK		WEN Zhenkang, SHAN Zhengming, JIN Zheyu	
	HKU	Exploring potential molecular targets for application in immunotherapy for lung cancer	DENG Zifeng, LI Yuanhui, ZHAO Suizi, ZHAO Yinan	
Merit Prize	CUHK	Aptamer based Therapeutic Strategy Targeting CT domain of Connective Tissue Growth Factor to Counteract Muscle Fibrosis in Duchenne Muscular Dystrophy	Meishen, Yang Xin	
	HKBU	An osteoblast-targeted 11-HSD1 inhibitor	Li Nanxi	

	Entrepreneurship		
Grand	CUHK	RiceFort	Law Yuk Yi, Cheuk Kei Shan, Leong Cheng, Lam Lai Ting
Prize			Lydia, Cheung Yat Ming

	Entrepreneurship Proposal			
Award	Institution	Project Name	Name of Participant(s)	
First Prize		Innovative Structure Based IV Type Hydrogen Storage Bottle	Sun Yitian, Ma Yumeng, He Jiarui, Xie Sihao, Wu Yuting, Liu Yueyi, Zhang Yidan, Liu Jingjing, Zhao Jiayi, Deng Kaiyuan, Li Qiuyi, Guo Boyu, Xie Bing	
	НКИ	Event based digital holography for semiconductor production	Chen Jingyan, An ran, Wang Chutian, Tian Yunfei	
Second Prize	PolyU	Next Generation Platinum Alloy Catalysts for Hydrogen Fuel Cells	LI Longyu	
	CUHK	Pioneering Phage Precision Therapy to Defeat Superbugs	Fuda XIE, LIN ZHIQIANG, Fengtiejun	
	PolyU	Al Empowered Digital Twin Platform for Smart Building Management	XU Kan, MA Tianyou, XIAO Ziwei	
Third Prize	PolyU	NeuraFlow	HE Jiarui, MA Yumeng, XIE Sihao, ZHANG Shuyu, YAN Chengtao, LIU Yueyi, YANG Qinglin, BI Jiawei, DENG Zirui, WANG Yichu, GUO Boyu, YANG Zhuo	
	PolyU	Al Intelligent One-Stop Exhibition Service Platform	Hu Yawen, Tao Liangjie, LI Jingshu, LI Jiamei	
	HKU	ArchiFuture Al	Neo, JINYAO FENG, Li Ziqi	
Merit Prize	HKUST	Next Generation of 3D Bioprinting through A Multimodule Integrated Platform	LIU Shishuo, WANG Chongrui, YIN Xi, DONG Bin, LUO Yikun, ZENG Ruiyi, ZHANG Zhanjie	

I HKBU I	NextSight Pioneering the Next Gen Comput Human Revolution with Smart Glasses	TANGMINGMEI
HSU	Ultrasonic Welding	Chan Kaki, Cheng Hao Ran
HKU	Mednnect	SU Yuting, CHAN Chun Ki

	Startup				
Award	Institution	Project Name	Name of Participant(s)		
First Prize	HKUST	Bacbudy Smart Exosuit	LEI Ting		
	CUHK	Low Carbon Lifestyle with Silica Capsule Technology	Malvin Subroto Pamudji, Cheng Ka Kit		
Second Prize	CityU	Nano Pore Sensing Platform for Single Biomolecules Detection	PAN Tianle, YANG, Jianxin, Hu,Dehua		
	CityU	Hopcopter	WANG Fangzheng, DING Runze, LI Song, JIA Ruihan, GUO Zerong, NIE Xiaoling, LAN Yawei, WANG Fangzheng, BAI Songnan		
	PolyU	Quantitative Rapid Test for At-home Health Management	LIU Wengang, WU Siying, LI Liman		
Third Prize	PolyU	Application of Freez Sugar Natural Honey Powder in Traditional Chinese Health Conscious Desserts and Sweet Soups			
	HKUST	Multifunctional magnetic guidewire with fingertip feedback	LIU Xu, CHEN Xi, WANG Hong		
	HKUST	ice-assisted transfer and cleaning for semiconductors and electronic devices	Liu Haijun, Wang Bodong, Au Sze Ching		

Merit Prize	LUTVU	Intelligent Microfluidic Chip Platform for Regenerative	Zhang Linghan, Zou ShangJie, Liao Junchen
		Medicine and Liquid Biopsy Screening	
	CityU	Microalgae Air Purification and Protection	Tong Travis Ka Hin, Dhruv Manoj Jain, Rehaan Lulla, KHAN Md
			Muhtasim
	I HKU I	Harness the ecological service and carbon sequestration via	SHAIK ABDULLAH NAWABJAN, Deng Xiao
		Shellfish farming	
	НКМИ	Vita-Sphere Organoid Cell Culture Platform	Zhang Yongchao, Liu Tsam Yi, Wang Xiaolong, Wang Ruixiao, Xiao
			Junhong

Social Enterprise /Cultural & Creative Services						
Award	Institution	Project Name	Name of Participant(s)			
First Prize	CUHK	RiceFort	Law Yuk Yi, Cheuk Kei Shan, Leong Cheng, Lam Lai Ting Lydia, Cheung Yat Ming			
	PolyU	JAPJAP	Chan Man Wai			
Second Prize	HKUST	Food With Benefits Sustainable Upcycled Food	Yordanov Matey Svetlan, Ka Hei So Francis			
	HKU	Saint Novel	LI Cheuk Shuen, Zhang Odin Haotian, Liang Qi			
	CUHK	ArtInSight	Chung Ho Chun, Lee Pak Nin, Chu Wing Sze Nicola			
Third Prize	HKU	Okara Upcycling with DoDidDust Food	To Man Yiu, Lee Cheuk Lam, Wong Tze Ching, Tsang Ching Nga			
Timuriize -	HKUST	Visionary	Yeung Kok Hay Jacky, Leung Tsz Shan, Yeung Yui Sze			
	PolyU	Clear Eyes	Feng Lin, Julia, Chen Kaixin, Zhao Zixian			

Merit Prize	PolyU	Spatial Intelligence System	Xu Huafeng, Lam Yuen Yik, Cheung Kwok Hei, Bian Muzhi
	CUHK	3	Wong Tsz Kwan, Yu Chen Xu, Leung Wing Kiu, Liu Yuk Ming, Ho Kelly, Fan Lok Wai
	HKUST	HandsTalk AI Driven Real Time Sign Language Translate App	Lee Cheuk Sum, So Ho Mang Marcus
	HKU	Body Nova Medical Consultancy Services	Kwok Ka Po, Chak Chi Shing