Project		Principal Investigator	Abstract	Award(s)
1.	An Intelligent Ocular Misalignment Measurement System	Dr Fu Hong, Assistant Professor at the Department of Mathematics and Information Technology	This fully automated machine measures ocular misalignment, with enormous potential to help mitigate the shortage of eye professionals and provide an objective method with high granular measurement.	Gold MedalJury's Choice Award
2.	Rapid Quantification of Microplastics Using Total Organic Carbon Analysis with Simple Sample Pretreatment	Dr Tsang Yiu-fai, Associate Professor at the Department of Science and Environmental Studies	An all-in-one semi-automatic sample pre-treatment device that can efficiently and accurately quantify microplastic abundance in water and slug samples.	Gold MedalOrganizer'sChoice Award
	Fall Detection System for Smart City	Dr Steve Mung Wai- yin, Research Assistant Professor at the Research & Development Office	Falling in a private area can mean there is no immediate treatment, which can prove fatal. A smart fall detection system has been developed to detect people's status in private areas, such as accessible toilets, and prevent delayed treatment. This originated system includes the server and on-site fall detection hardware which are connected by Narrowband Internet of Things (NB-IoT) technology. The hardware includes a microcontroller unit and two thermal sensors. The server can then calculate the data detected by the thermal sensor and send alert signals to the backend user for detection of abnormalities.	 Gold Medal Special Award
4.	Nano-Sensor System for Meat and Seafood Monitoring	Professor Stephen Chow Cheuk- fai, Professor (Practice) at the Department of Science and Environmental Studies	A food monitoring device that offers a new and convenient way to monitor food safety, with a series of chemo sensors to detect the chemical substance released from rotting food.	Gold MedalSpecial Award

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5.	Revolutionising Early	Headset Limited	This invention introduces an innovative approach to early	Gold Medal
	Childhood Education with	(EdUHK EASE Fund	childhood education by designing Vision AI-led games that	 Special Award
	Vision AI-led Games for	Team)	revolutionise human-mobile interaction and address	
	Active Learning and Balanced	TREE BEAR Limited	concerns regarding excessive screen time. Leveraging	
	Technology Usage	(External Partner)	advanced computer vision algorithms, we create interactive	
			games that engage young children through gesture	
			recognition, eye-detection and object tracking. By	
			incorporating Vision AI technology, the invention enhances	
			the learning experience, encourages physical movement,	
			physical human interaction and limits screen time. Through	
			immersive and educational gameplay, children develop	
			cognitive skills while reducing their reliance on traditional	
			screen-based activities. This invention pioneers a novel	
			solution to balance technology usage while promoting active	
			learning and healthy development in early childhood	
			education.	
6.	Sitting Light Volleyball and Its	Dr Carman Leung Ka-	Sitting light volleyball is developed to promote the physical	 Gold Medal
	Functional Sports Garment	man, Assistant	and mental health of people with physical disabilities or	 Special Award
		Professor at the	older athletes. A garment has been developed to solve	
		Department of Health	limitations and movement restrictions during the exercise.	
		and Physical		
		Education		
7.	Learningverse - A 3D	Dr Song	A 3D metaverse providing a custom virtual tool for online	 Silver Medal
	Metaverse for Online	Yanjie, Associate	collaborative learning in school education. It enables	 Special Award
	Collaborative Learning	Professor at the	customising of avatars and mirrors users' interactions with a	
		Department of	computer and a webcam to enhance immersive learning.	
		Mathematics and		
		Information		
		Technology		
8.	Game-basis Learning	Dr Louisa Chung	Three board games, based on real-life, with the themes of	 Bronze medal
	Materials for Children to	Ming-yan, Assistant	healthy eating and infection control. They are targeted at	 Special Award
	Promote Healthy Eating and	Professor at the	primary students and are expected to achieve the learning	
	Be a Germ Fighter	Department of Health	objectives of 1) planning a meal of food choices based on	

and Physical	the recommended 3:2:1 portion; 2) recognising the correct	
Education	food groups for a balanced diet; 3) associating bacterial and	
	viral infections and their prevention in daily life.	