

Trending

Section News

Features

Event & Promotion

Coffee Break

Money Glitz

Weekend Glitz

Property

Overseas Property

Education

Overseas Education

Travel

Art & Cul

Home Décor

Health & Beauty

City Talk

People

Columns

Students showcase their digital creativity in the CoolThink@JC Competition 2021

Education | 15 Sep 2021



King's College Old Boys' Association Primary School No. 2's Intelligent team

Created and funded by The Hong Kong Jockey Club Charities Trust, and co-created by The Education University of Hong Kong, Massachusetts Institute of Technology and City University of Hong Kong, CoolThink@JC organised its 5th annual Competition. It has attracted more than 200 teams across different primary schools, the highest participation number ever. Besides showcasing their clever computational thinking, programming prowess, problem-solving skills, and teamwork, students also impressed the judges by incorporating artificial intelligence in their designs.

Professor Stephen Cheung Yan-leung, President of The Education University of Hong Kong and chairman of the competition's grand final judging panel, applauded participants' efforts and quality of work, which exceeded his expectations. He noted that the number of teams participating in this year's competition was more than double that of last year, which shows that academia is attaching increasing importance to the education of computational thinking. "I'm particularly pleased to note that many entries were designed from the user's point of view," he added.

Intelligent door lock

King's College Old Boy's Association Primary School No.2's Intelligent team, the champion of the App Inventor category, showcased an intelligent door lock model built with Lego bricks, which incorporates a bidirectional camera that runs AI-facial recognition programming. The door lock offers double security, requiring users to unlock the door using facial recognition plus a voice-activated code. In case a fraudster trying to open the door with a preset false voice password would activate a device to notify the home owner.

"Face recognition and voice-activated door opening are safer and more convenient than keys, passwords or fingerprints, as users may be carrying many things home and fumbling to open the door," the team explained.

Apart from access, the home-facing camera is a welcome boost for families with kids or elderly people with Alzheimer's disease. Whenever they go out alone, the device will alert their families. The team obtained their inspiration for the design through reading news about Alzheimer patients going out alone and getting lost.