

AI in Conference to Explore AI Trends and Showcase AI Projects

In celebration of the 55th anniversary of CUHK, the Centre for Innovation and Technology (CINTEC) is staged a conference titled "Enroute to the Age of Artificial Intelligence (AI)" in July, drawing over 100 technology leaders, experts, researchers and government officials to discuss the growing trends of AI and its potential applications.



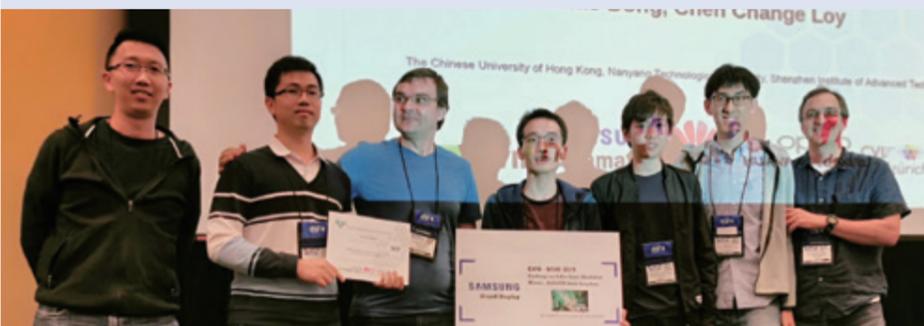
Baby-Care Mobile Apps Developed by IE Alumni Showcase at International ICT Expo 2019

Two baby-care mobile apps "BBGuide" and "Dr. B" were selected to be showcased at the International ICT Expo in April 2019. The two apps were developed by a CUHK start-up team "Bulb Inno", which aimed to use artificial intelligence and collaborated with paediatric experts to help new parents to solve daily problems. The team is composed of three IE graduates in 2018, Bosco Yam, Peter So, Ray Chiu, and Alice Tsang, a graduate from the School of Design of PolyU. The BBGuide was also selected as one of the five finalists in the CUHK Entrepreneurship Competition.



The EDVR Framework Developed by Multimedia Lab Won in the NTIRE 2019

Prof. Chen-change Loy (NTU, CUHK) and Prof. Chao Dong (SIAT) led a joint team with members from The Chinese University of Hong Kong, Nanyang Technological University, Shenzhen Institutes of Advanced Technology, and SenseTime to develop a new deep learning method called EDVR. With this method, the team won all four tracks under the video restoration challenge, which included the tasks of video super-resolution and video deblurring. All team members have very close connection with the Department of Information Engineering, CUHK. They are: Xintao Wang (IE PhD), Kelvin C. K. Chan (2016 MAIE graduate, current a PhD student at NTU), Ke Yu (IE PhD), Chao Dong (2016 IE PhD graduate, current an Associate Professor at SIAT) and Prof. Chen-change Loy (current an Associate Professor at NTU and IE Adjunct Associate Professor).



Automatic Fabrication of Clothes and Footwear to Perfectly Fit Individual's Shape

The pursuit of an improved quality of life by people with increasing requirements means that conventional technology with single and standardised measurements no longer meets consumer demand. The fabrication of personalised clothes and footwear is one of the important factors that has led to the development in smart living. Prof. Charlie C.L. Wang from the Department of Mechanical and Automation Engineering and his team have pioneered Shape Driven Technology. After further improvement and development, it is now equipped with the mature fast scanning, the big-data driven artificial intelligence and the digital knitting technology to achieve its mission of automatically fabricating personalised clothes and footwear according to individual forms.



CUHK Engineering Team Won Champion at the Robocon 2019 Hong Kong Contest

Phantom Dancer, a robotics team from the Faculty of Engineering at The Chinese University of Hong Kong, stood out from a record number of 13 competing teams from 7 local tertiary institutions and became Champion of the Robocon 2019 Hong Kong Contest. The team has represented Hong Kong and won in the Asia-Pacific Robocon finale Mongolia in August. It was the first victory for Hong Kong.



Engineering Students Won the Champion at the 8th Greater China Design Competition

The CUHK Engineering Team, led by Dr. Li Yiyang, Prof. Xu Dongyan and the assessor Mr. Martin Leung from Department of Mechanical and Automation Engineering, competed among contesting teams representing eight universities from Hong Kong, Macau and China, and won the Champion at the 8th Greater China Design Competition which was held in Macau in March, 2019.



Prof. Michael Lyu Received Ministry of Education Higher Education Outstanding Scientific Research Output Award

Prof. Michael Rung-Tsong Lyu, Chairman of Department of Computer Science and Engineering has received the second-class award in Natural Sciences from the Ministry of Education (MoE). His project is titled "Reliability Prediction and Evaluation towards Software Services".

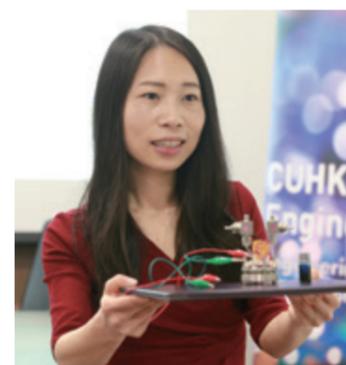


CUHK Engineering x SenseTime AI Competition Trains AI Talents

The Faculty and SenseTime Group Ltd jointly held an AI Competition for Secondary Schools at the CUHK campus on 11 May 2019, with over 30 teams from 22 schools participated. The event resulted in the team from St. Paul's Co-educational College winning the first prize with their project "Cantonese lip reading".



A Safe, High-rate, and Long-life Organic-oxygen Battery: A New Chapter in Renewable Energy Storage



Alkali metal-oxygen batteries promise high gravimetric energy densities but suffer from low rate capability, poor cycle life and safety hazards associated with metal anodes. A safe, high-rate and long-life oxygen battery that exploits a potassium biphenyl complex anode instead of the problematic potassium metal anode has recently been developed by Prof. Yi-Chun Lu, Department of Mechanical and Automation Engineering and her research team. This technology provides a safe and efficient solution for the storage of renewable energy sources such as solar and wind. The breakthrough was published in the world-leading scientific journal, *Nature Materials*, a sister journal of *Nature*.