BME Team Won 1st Place at the IEEE EMBS 2018 Brain-Computer Interface (BCI) Hackathon

Team “Phoenix” from Department of Biomedical Engineering won the 1st place at the IEEE EMBS 2018 Brain-Computer Interface (BCI) Hackathon in Honolulu. This competition, which attracts developers, technologists, engineers, students, and scientists from all over the world, is organised by IEEE EMBS (Engineering in Medicine and Biology society) and IEEE Brain. Members of “Phoenix” spent a solid 24-hour stretch brainstorming and building solutions to the BCI project and finally succeeded in using brain motor imagery signals to control in real-time both the external orthosis robot hand and software BrainRacers Unity game.

The winning team “Phoenix” from CUHK was comprised of three PhD students: BAD Shichun, WANG Xin, and FANG Yuqi, and was supervised by Professor Raymond TONG.

Music Adds to Work Life Balance in Engineering

The Engineering Annual Concert has been running since 2005. Every year, Engineering staff, alumni and students perform beautiful music at the Lee Hysan attracting an audience from all over the University. This yearly event is organised by staff and students and supported by the Engineering faculty office and the Deans.

The main objective of Engineering Annual Concert is to bring together music lovers and friends of the Faculty of Engineering to provide an opportunity to show their musical talent. As they prepare for the concert, they get to make new friends and work together in a relaxed and harmonious atmosphere of rehearsals. Different genres of music are all welcome, be they ancient or modern, classical or pop, Western or Chinese. We’ll play anything as long as it is fine music.

It is a good opportunity for students to improve their organisational and management skills, as staging such a function gives a good taste of how an event should be properly organised. The goal is simple, students from different departments work together to create a memorable concert for the audience.

It is hoped that the tradition of the Engineering faculty can be carried on, providing a time and place for everyone to relax, and adding a little balance to life at CUHK.

A Newly Launched Project: Robotics, STEM and Green Innovation (2018–2020)

With funding support from the Innovation and Technology Commission, and sponsorship from the Hong Kong Science and Technology Parks Corporation and Mitsubishi Electric (Hong Kong) Limited, The Chinese University of Hong Kong co-operates with the Hong Kong Technology Education Association to launch a two-year project called ‘Robotics, STEM and Green Innovation’. It is a project combining STEM education and green technologies. There are three elements including training, competitions and exhibitions. In the first place students are given some basic knowledge right across the disciplines. They can then develop and apply their problem-solving skills to issues of daily life through robotics construction and innovative design. Finally, the fruits of their endeavours in each of the subject competitions can be shared through public exhibitions.

The competition includes three parts: robotic challenges (Hong Kong Tech Challenge), robotic implementation of Chinese cultural arts (6-Art robotics), as well as green technologies (Green Classroom). Winners of a selected competition may be nominated to represent Hong Kong in the World Robotics Championship in the USA.

The goal of the programme is to nurture a diversity of talent in enhancing the international competitiveness of Hong Kong in future. There are currently about 100 primary and secondary schools in the programme.

For more details, please visit www.6artsplus.com.

Prof. Raymond Y. YEUNG Develops BATS Code for Efficient Network Transmission

A research team led by Prof. Raymond W. YEUNG, Choh-Ming Li Professor of Information Engineering and Co-Director of the Institute of Network Coding (INC) at CUHK, has invented BATSed Sparse code (BATS code) to improve the network transmission rate of networks with packet loss. The team is now in the process of applying to Institute of Electrical and Electronics Engineers (IEEE) to make it one of the international wireless communication standards.

SEEM Student Received the Best Student Paper Award at SPAW 2018

Ms. Sherry Xue-Ying NI, PhD student of the Department of Systems Engineering and Engineering Management, receives the Best Student Paper Award at the 19th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2018) for her paper titled “Mixed-Integer Summation Relaxation of Joint Admission Control and Beamforming: An SOD-Based Outer Approximation Approach with Provable Guarantees”, co-authored with her PhD advisor Professor Anthony Man-Choo SO.

SPAWC is the flagship workshop of the Signal Processing for Wireless Communications and Networking Technical Committee (SPCOM-TC) of the IEEE Signal Processing Society. SPAW 2018 features a Student Paper Competition, where the finalists present their research in a poster format evaluated by a team of judges.

CUHK Team Won in the PwC HackaDay 2018

CUHK has won the Inter-University Capture The Flag (CTF) competition in this event in Hong Kong for the second year in a row. This year there were nine teams in this intensive competition. The winning team “g33z” are: Siu-chun CHAN (MIEG), Shing-yuet LEUNG (MIEG), Cham-fei TONG (CS), and Yuhi ZENG (MATH). They are all Final Year students.

BME Team Won 2nd Runner-up at Group Sense Innovation and Enterprise Competition

Mr. IAM Wai Yin Kelvin and Mr. Li Cheuk Man Chapmann from the Department of Biomedical Engineering won the 2nd runner-up prize of Group Sense Innovation and Enterprise Competition, which was organised by the University College, CUHK. The competition aims to encourage students to develop innovative ideas or products and to design a business plan for commercialisation of the related projects.