



Issue 53 (March 2024)

Faculty Achievement



Department of Mechanical Engineering

Prof Takashi HIBIKI received the 2023 Technology Development Award for developing the Nuclear Accident Consequence Assessment Code (NACAC). NACAC, based on a collaboration between Thailand's Nuclear Technology Research Institute and Japan's Atomic Energy Agency, enhances Thailand's nuclear emergency response capabilities. It supports Thailand's plan to introduce nuclear power in their National Electricity Development Plan, promoting energy security and reducing carbon emissions.

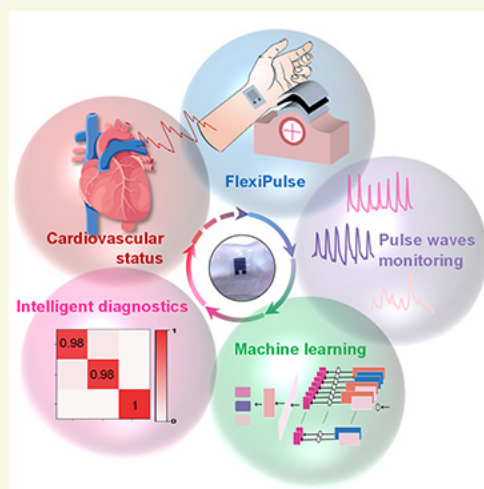
Faculty Achievement



Department of Biomedical Engineering

Prof HU Jinlian and her team recently published a paper titled Synergistic Collaboration of Electrospinning and Electrospraying: Advancing Nanomaterial Fabrication in *Matter*. The paper highlights the significance of integrating electrospinning and electrospraying to create innovative nanomaterials, addressing a pressing research need for materials scientists and biomedical engineers.

Faculty Achievement



Department of Biomedical Engineering

Prof KHOO Bee Luan and her collaborators have developed a low-cost, clinically validated, intelligent, flexible pulse detection system for CVD monitoring and diagnostics called FlexiPulse. The team's work has been described and published in *Cell Reports Physical Science* under the title FlexiPulse: A machine-learning-enabled flexible pulse sensor for cardiovascular disease diagnostics.

Faculty Achievement



Department of Architecture and Civil Engineering

Prof Paul LAM was bestowed with the Grand Award - Structural Excellence Award for his paper titled Practical Model Updating of the Ting Kau Bridge through the MCMC-based Bayesian Algorithm Utilizing Measured Modal Parameters in *Engineering Structures*. Additionally, Prof Lam received the prestigious Featured Paper Award from *Engineering Structures* for his paper titled A Markov Chain Monte Carlo-Based Bayesian Framework for System Identification and Uncertainty Estimation of Full-scale Structures.

Faculty Achievement



Department of Electrical Engineering

Prof Stella PANG has been elected as a Fellow of the Hong Kong Academy of Engineering Sciences 2023. This prestigious accolade recognises Prof Pang's exceptional contributions as a distinguished leader in the field of low-damage nanofabrication technology for microsystems and devices and an educator in electrical engineering and STEM.

Faculty Achievement



Department of Mechanical Engineering

Prof WANG Bin and Prof SUN Yuxiang have received the NSFC funding (国家自然科学基金-面上项目). Prof Wang's project focuses on the effects of bioinspired microstructures on strain-rate-dependent properties of composite materials and microstructure design optimisation while Prof Sun's project aims to develop key technologies for detecting negative and moving obstacles in unstructured road environments for autonomous driving. The funding amounts are RMB0.65M and RMB0.3M respectively.

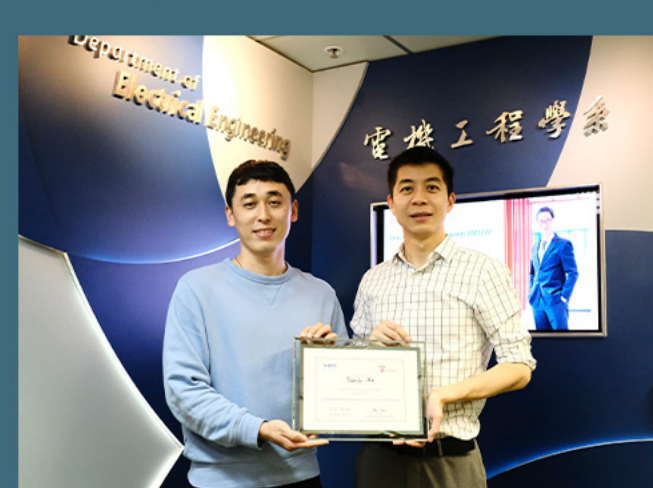
Student Achievement



Departments of Biomedical Engineering, Computer Science & Mechanical Engineering

Pivot BME, led by Mr CHENG Chit Yuen, Mr LO Wai Ping, Mr SIU Wai Hin, and Mr NG Cheuk Yiu, emerged as the winners of the Gold Award in the Trusted AI & Data Science category at Hong Kong Techathon+ 2024. SpiralX, a startup founded by PhD students Mr ZHOU Shangjie and Mr ZHANG Linghan, secured the Silver Award in the local open group. Mr LABIB Mahir and his team clinched the Bronze Award in Sustainability & ESG, while GABES Limited, spearheaded by graduate Miss YEUNG Shu Yi and her partner, also received the Bronze Award at the event.

Student Achievement



Department of Electrical Engineering

PhD student Mr MA Tianlu received the First Prize and Best Presentation Award at the 2nd IEEE PELS Student Symposium on Power Electronics in Asia. The winning project, titled Periodic Energy Control: A Novel Control Strategy for Wireless Power Transfer System, was supervised by Prof Derrick JIANG.

Student Achievement



Department of Biomedical Engineering

Congratulations to a team comprising Mr ZHOU Shangjie and Mr CHEN Chun Kwan, and another team consisting of Mr HUA Haojun, Mr LI Wei, and Miss DENG Yanlin for winning the Silver Awards in the Project Category at the prestigious Invention and Entrepreneurship Award presented by the China Association of Inventions. These two teams, under the guidance of Prof KHOO Bee Luan, have demonstrated exceptional innovation and ingenuity.

Student Achievement



Department of Mechanical Engineering

Miss ZHOU Ying, a PhD student under the guidance of Prof ZHU Pingan, has been honoured with the prestigious Microfluidic Award 2023 in the PhD student category. This recognition is a testament to her exceptional research achievements showcased in her groundbreaking work titled Suppression of Hollow Droplet Rebound on Super-repellent Surfaces, which was published in the esteemed journal *Nature Communications* in 2023.

Alumni Achievement



Department of Computer Science

Miss LIU Wei, a 2023 graduate of BSc in Computer Science, was selected to receive the College Medal 2023 in recognition of her outstanding academic performance and well-rounded personal qualities.

