



Awards Asia 2023



Excellence and Innovation in the Arts

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| Institution name | Chinese University of Hong Kong |
| Submission title or project name | Creating a Major Confluence of the Arts, Artificial Intelligence and Robotics |
| Nominee/key personnel | Professor YAM Yeung, Research Professor, Department of Mechanical and Automation Engineering, and Director, CUHK Shenzhen Research Institute; Professor MENG Mei-ling, Helen; Patrick Huen Wing Ming Professor of Systems Engineering & Engineering Management, Department of Systems Engineering & Engineering Management |
| URL | https://www.erg.cuhk.edu.hk/erg/ |
| Submission | <p>CUHK's Faculty of Engineering is creating a major confluence of the Arts, AI and Robotics, and incorporating the work into the first pre-tertiary AI curriculum taught across Hong Kong. We aim to cultivate the next generation of technologically adept and artistically expressive talent.</p> <p>We have developed Chinese Calligraphy and Painting Robots, Oil Painting Robots and Sculpturing Robot. The machines use AI to analyze artistic styles and high-dexterity robotic control to generate artwork with a target style or combined styles. Multi-disciplinary collaborations include:</p> <p>(1) With the Faculty of Education – to create innovative pedagogies for introducing AI and the Arts across Hong Kong's secondary schools.</p> <p>(2) With the CUHK Art Museum – to develop technologies for creating new, digital representations for the Museum's physical treasures – to illuminate the uniqueness of Chinese culture and civilization, and create palpable experiences for enhanced understanding by our community and the world.</p> |