

Industry Cooperation

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## Quanta-NYCU Joint AI Research Center Launches Innovative Art with AI and IoT Platforms, Set to Debut at Ars Electronica Festival in Austria



*The creation "Machine Heart," led by Associate Professor He-Lin Luo, was showcased at the Ars Electronica Center in Linz.*

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actively developed applications in innovative healthcare, smart agriculture, and smart hospitals using the Quanta QOCA AI platform combined with the IoTtalk IoT platform. Recently, the center has extended these platforms to interactive art, launching a series of innovative performance projects, including PuppetTalk, AvatarTalk, CATtalk, DroneTalk, PianoTalk, and ViolinTalk, injecting new energy into tech-art integration.

### **NYCU Supports Technology Innovation Award, Promoting Taiwan's Tech-Art to the International Stage**

In 2014, the Quanta Research Institute and the Taiwan Creative Content Agency (TAICCA) collaborated to establish the "Technology Innovation Award". This award provided professional consultation and technical support to artistic teams selected by the Quanta Research Institute, assisting them in developing proposal works.

Through collaboration with the Ars Electronica Center, the selected teams' works were showcased at the Ars Electronica Festival, utilizing the

technological and artistic creations with international standards and, through cooperation with the TAICCA and the Ars Electronica Festival in Austria, showcases the technological artistry of the Quanta-NYCU Joint AI Research Center on the global stage.

### **Integrating Technology with Art: Showcasing Taiwan's Innovation Power**

In the development of works of cultural technology, the Quanta-NYCU Joint AI Research Center has extensive experience. The creation 'Machine Heart,' led by Associate Professor Luo He-Lin, was showcased at the Ars Electronica Center in Linz. This piece, powered by the IoTtalk smart IoT development platform and Quanta's 5G technology, integrates technologies such as the Internet of Things, 5G, AI image recognition, hand motion capture systems, and electrocardiogram measurement devices. Collaborating with the Xishitianshe (西田社) Puppet Troupe, it achieves a fusion of virtual and reality, preserving traditional puppetry through technology and data.

These data are visualized through projection, influencing the real-time



Taiwan's cultural creativity and technological prowess. This collaboration aims to deepen the connection between cultural content and the technology industry, and to expand the international market for Taiwan's cultural and technological content.

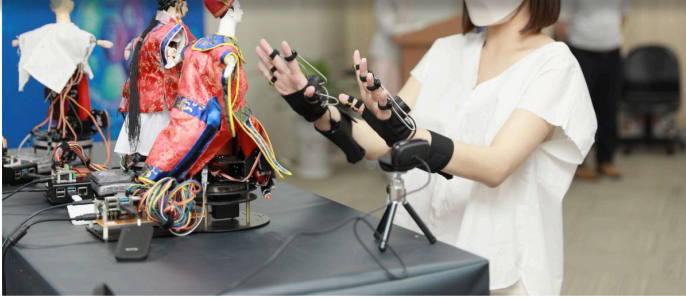
The Technology Innovation Award was planned and established by Dr. Ted Chang, Director of the Quanta Research Institute, and Professor Yi-Bing Lin, Distinguished Chair Professor at NYCU, with execution overseen by the Quanta-NYCU Joint AI Research Center. The center appointed Associate Professor He-Lin Luo, who concurrently serves in NYCU's interdisciplinary program, as Artistic Director. Associate Professor Luo, himself an artist with a cross-disciplinary background holding a Ph.D. in Computer Science, assists in fostering the integration of technology and art at the research center.

creation also encompasses the collective efforts of Professor Chun-Cheng Hsu, Professor I-Ping Chen, and the students and faculty of the Institute of Applied Arts, endowing the work with abundant technical content and cultural significance.

In the future, the Quanta-NYCU Joint AI Research Center will continue to collaborate with the Ministry of Culture's TAICCA, providing cutting-edge technical support to both industries and academia. Building on this foundation, it will deepen cooperation with the Ars Electronica Festival in Linz, Austria, ensuring the long-term international exposure of Taiwan's technological prowess and artistic creativity. This will further expand the boundaries of the cultural content industry.

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