



Awards Asia 2025

Technological or Digital Innovation of the Year

Institution Name	The Hong Kong Polytechnic University
Submission title or project name	Enhancing Writing Excellence: GenAI-Powered Feedback for Cross-Disciplinary English Assignments
Nominee / key personnel	Department of Electrical and Electronic Engineering: Dr Pauli Lai; Ivan Lau; Richard Pang; Vico Lai; Gigi Yau; Chiho Chan Department of Applied Social Sciences: Dr Rodney Chu
URL	https://paulilai.info/aireas/
Submission	To tackle the challenges students face in obtaining timely feedback on writing tasks and to expedite the grading process for teachers, we created AIReAS (AI Review Assessment System) utilising Generative AI (GenAI). This innovative platform uniquely leverages GenAI to guide students in their writing assignments and grade them based on subject-specific rubrics – a feature previously unavailable. By inputting precise rubrics and assignment contexts, AIReAS delivers immediate, tailored feedback, enabling students to promptly review and enhance their work. This approach has been shown to lead to improvements in student writing outcomes. Teachers appreciate the instant feedback and flexibility to refine the AI feedback with human intelligence, while students are motivated by the AI feedback to improve their writing performances. AIReAS represents a major advancement in writing education with hybrid intelligence, transforming rubrics from grading tools into active guides that facilitate student improvement and streamline the writing assessment process across diverse disciplines.



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Technological or Digital Innovation of the Year

Institution Name	Nanyang Technological University, Singapore
Submission title or project name	NTU's use of location-based analytics for optimising air-conditioning operations
Nominee / key personnel	
URL	
Submission	Nanyang Technological University (NTU) introduced a novel solution to optimise air-conditioning (AC) systems, by using wi-fi data to estimate occupancy levels and adjusting air-conditioning responsively. Traditional building management systems (BMS) operate on fixed schedules, which may not always meet real-time occupancy needs. NTU leverages existing wi-fi infrastructure and location data to estimate the number of occupants in lecture theatres and meeting rooms. These data are integrated into the BMS to adjust or switch off AC systems during periods of low occupancy, reducing energy usage and carbon emissions. With more than 40% of campus emissions coming from air-conditioning and mechanical ventilation, transitioning to demand-driven efficiency is crucial for NTU to achieve carbon neutrality by 2035. This wi-fi-based solution eliminates the need for additional sensors, reducing maintenance costs and extending equipment lifespan. Using wi-fi data to estimate occupancy levels, also opens new potential benefits in optimising campus spaces and emergency response.



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Institution Name	Our Lady of Fatima University
Submission title or project name	Towards Asia's First Metaversity: Establishment of the Multiple Applications for Reality-Virtuality Experience Laboratory (MARVEL) Facility
Nominee / key personnel	Dr Michael Joseph S. Diño, Director of Research Development and Innovation Centre
URL	https://www.youtube.com/watch?v=tUb8u_v3tPQ
Submission	The Multiple Applications for Reality-Virtuality Experience Laboratory (MARVEL) Project is a multi-million initiative of the Our Lady of Fatima University and the Philippine Department of Science and Technology–Philippine Council for Industry, Energy and Emerging Technology Research and Development (DOST-PCIEERD). The laboratory pioneers the development of virtual assets in the digital world for use in education, training and community service. Its long-term plan is to establish Asia's first "metaverse" or twin university (of an existing university with physical building and facilities). Its short-term objective is to develop and pilot digital artefacts (eg, models, simulators, buildings) that can be viewable on various platforms (mobile, tablet, computer) and formats (virtual reality, augmented reality, mixed reality) and their potential pedagogical and public service utilities. In 2023, the project produced three pioneering projects: the virtual coach (MR); maritime navigation (AR); and life support modules (VR) that inform educational technology praxis, policy and research.



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Institution Name	National University of Singapore
Submission title or project name	Tech Central: NUS Libraries Enhancing Education and Sustainability through Digital Innovation
Nominee / key personnel	
URL	
Submission	Tech Central at NUS Libraries (NUSL) is Singapore's first tech-enriched learning space, designed to revolutionise educational and research landscapes through digital innovation. It provides immersive learning environments and advanced research tools to advance digital scholarship, while promoting interdisciplinary collaboration and sustainability. NUSL integrates facilities like the Digital Scholarship Lab and the Technology-Enhanced Learning Imaginarium, transforming student learning across various disciplines with technologies such as VR and gamification. Tech Central's model is highly sustainable and scalable, using XR for scenarios that are impractical to replicate physically, allowing quick lesson resets and promoting self-directed learning. This efficiency has earned international recognition and awards like the QS Reimagine Education Awards. A second site was established in 2023 to increase accessibility, benefiting over 3,500 participants. Future prospects include collaborations in fields like biodiversity and museum studies, with a commitment to enhancing learning and societal benefit. Tech Central continues to expand its impact through new partnerships and innovative educational solutions.



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Technological or Digital Innovation of the Year

Institution Name	Phenikaa University
Submission title or project name	Digital Transformation and the Innovative University Model
Nominee / key personnel	Ms Thu Ha, Manager of International Rankings Team
URL	https://drive.google.com/drive/folders/1UmgLd2aBGoHrRQQwe6gyjtA7izQvmY9M
Submission	Phenikaa University has developed a comprehensive Digital Technology Solution for Universities, addressing key challenges of management including admissions, training, security and human resources. This enterprise resource planning system fully digitises educational operations, significantly enhancing the efficiency of both admissions and academic processes. Importantly, the solution enables students from remote regions, particularly those impacted by natural disasters, to overcome geographical barriers through online enrolment, virtual learning and access to digital libraries. Moreover, integrated systems such as smart security management and cashless payments ensure uninterrupted learning experiences, even in adverse conditions. Powered by advanced 5G infrastructure from leading global technology corporations, the solution has been widely adopted by educational institutions both domestically and internationally. The solution has received numerous prestigious awards, underscoring its scalability and its pivotal role in driving the sustainable modernisation of higher education in Vietnam.



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Technological or Digital Innovation of the Year

Institution Name	Gordon College
Submission title or project name	Gordon College Learners' Academic Management Portal
Nominee / key personnel	
URL	https://gordoncollegeccs.edu.ph/ccs/students/lamp/#/login
Submission	Gordon College developed the Gordon College Learners' Academic Management Portal (GC LAMP) during the Covid-19 pandemic as the first in-house Learning Management System (LMS) in the Philippines (Region III). Faced with limited resources, the college harnessed internal talent to create a platform that supports both synchronous and asynchronous learning. With automated capabilities and gamified elements, GC LAMP quickly became an essential tool for student engagement and faculty efficiency. Recognised for its adaptability and regional impact, GC LAMP caught the attention of the Commission on Higher Education Regional Office III and the Department of Science and Technology Regional Office III, leading to a commission to develop a similar system for other higher education institutions in the region. Today, GC LAMP supports four local colleges and universities, three private higher education institutions, and two state universities and colleges, proving that resourcefulness and innovation can significantly enhance digital education.



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Technological or Digital Innovation of the Year

Institution Name	Istanbul University-Cerrahpaşa
Submission title or project name	Personalised Medicine: From Design to Product
Nominee / key personnel	Cerrahpasa Research, Simulation and Design Laboratory Research Team
URL	https://cast.iuc.edu.tr
Submission	The Cerrahpaşa Research Simulation and Design Laboratory (CAST) at Istanbul University-Cerrahpaşa is an innovative initiative that integrates 3D technologies to advance healthcare. Its project, Personalised Medicine: From Design to Product, delivers patient-specific solutions through a seamless blend of research, education, innovation and clinical care. Serving numerous specialties such as orthopaedics, plastic surgery and urology, CAST employs a workflow where project managers and designers collaborate with healthcare professionals to create custom 3D-printed materials and prototypes. This process ensures precision and efficiency, enhancing patient care. CAST's interdisciplinary model has attracted widespread interest within the institution and fostered international collaborations with Harvard, Mass General, Ghent University and PGIMER (Postgraduate Institute of Medical Education and Research), leading to multicentre research and publications. CAST's scalable approach, which reduces costs, risks and time while improving treatment precision, has the potential to transform healthcare globally, demonstrating how digital technology can significantly enhance university functions and outcomes.



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Technological or Digital Innovation of the Year

Institution Name	Chulalongkorn University
Submission title or project name	'MDCU MedUMORE': A Lifelong Learning Platform for Medical Professionals
Nominee / key personnel	Academic Services Division, Faculty of Medicine
URL	https://www.medumore.org
Submission	MDCU MedUMORE, a groundbreaking online platform developed by Chulalongkorn University, is revolutionising medical education in Thailand. This innovative platform prioritises personalised learning, empowering healthcare professionals with tailored educational experiences. Its automated certification streamlines the process of validating knowledge and skills, while immersive technologies like AR/VR bring medical concepts to life through interactive simulations. Designed with busy professionals in mind, MedUMORE offers accessible and continual learning opportunities, anytime and anywhere. With a thriving community of over 18,000 members and a vast library of 3,000+ content pieces delivered by 800 esteemed speakers, MedUMORE fosters a collaborative environment that celebrates teaching excellence and innovation. This platform is more than just a resource; it is a catalyst for transforming medical education in Thailand, paving the way for a future where healthcare professionals can continually enhance their knowledge and skills to provide the best possible care for their patients.