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臺科大 TAIWAN TECH



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臺科大 Taiwan Tech

校內新聞快報【二月・第36期】

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Taiwan Tech Architecture Team Partners with Japan to Revitalize Guanshan, Taitung, transforming rural public spaces for local renewal

2026-02-26



為回應高齡化社會與農村人口外移所帶來的空間與文化挑戰，國立臺灣科技大學持續以大學社會責任(USR)為核心，深化跨域與跨國合作。USR-Hub 計畫「從田間到舞台的地方創生實驗」在　114　年度正式與日本早稻田大學建築系、滋賀縣立大學環境建築設計系、臺東縣關山鎮公所及臺東縣關山鎮農會簽訂合作備忘錄(MOU)，建立跨國、跨校、跨域的合作機制，以「在地國際化」為主軸，共同投入關山鎮農會「米國學校」公共空間的整體規劃與設計，探索農村空間再生與地方文化行動的創新可能。本計畫由臺科大建築系統籌推動，並攜手資訊管理系展開跨域合作，整合建築設計專業、數位管理觀點及國際學術資源，回應關山地區在高齡化社會與農村人口外移背景下，所面臨的公共空間老化、閒置建築增加及文化承載能量不足等結構性問題，建構出兼具在地回應與國際對話能力的地方實踐平台。臺科大建築系日前率日本合作夥伴實地走訪關山，並與臺東縣關山鎮公所及關山鎮農會完成 MOU 簽署，正式啟動後續設計、教學與實作交流，展現產、官、學攜手投入地方創生的具體行動 ...點擊看更多

In response to the spatial and cultural challenges brought about by an aging society and rural outmigration, Taiwan Tech continues to center its efforts on University Social Responsibility (USR), deepening interdisciplinary and international collaboration. Under the USR-Hub initiative, the project titled “From Fields to Stage: A Local Revitalization Experiment” formally signed a memorandum of understanding (MOU) in 2025 (ROC Year 114) with the Department of Architecture at Waseda University, the Department of Environmental Architecture and Design at The University of Shiga Prefecture, the Guanshan Township Office in Taitung County, and the Guanshan Township Farmers’ Association in Taitung County. This collaboration establishes a cross-national, cross-institutional, and cross-disciplinary partnership mechanism centered on “local internationalization”, ….more

數位所講座教授陳素芬、化工系特聘教授葉禮賢 二度榮獲國科會傑出研究獎

Distinguished Professors Su-Fen Chen and Li-Hsien Yeh of Taiwan Tech Honored Again with NSTC Outstanding Research Award

2026-02-24



國科會日前公布114年度傑出研究獎名單，共有80位學者與研究人員獲此殊榮，其中國立臺灣科技大學共有2位教授榮膺獎項，且皆為第2度獲獎，展現臺科大教師深厚穩健的研究實力。數位學習與教育研究所講座教授兼教務長陳素芬，曾於108年榮獲傑出研究獎。本次再度獲肯定，彰顯長期深耕教育研究的卓越成果。其研究專長涵蓋科學本質、眼動研究、數位科學實驗、後設認知、社群網路、科技融入體育教學、工業4.0之人才培育、學習倦怠等，持續以創新方法回應教育現場與產業發展需求。化學工程系特聘教授兼工程學院副院長葉禮賢，亦曾於111年獲得傑出研究獎，此次再度獲獎，體現在前瞻能源與材料領域的關鍵突破。其研究專長包括金屬有機骨架/共價有機骨架薄膜材料開發、新型態水驅動清淨能源開發　(藍色能源、電動能源、吸濕產電、滴水產電)、微米/奈米流體系統、離子傳輸與離子電路、奈米孔道感測技術，為淨零轉型與永續發展提供具體解方。⋯點擊看更多

The National Science and Technology Council (NSTC) recently announced the list of recipients for the 114th Academic Year Outstanding Research Award, with a total of 80 scholars and researchers receiving this honor. Among them, Taiwan Tech has two professors recognized, both receiving the award for the second time, demonstrating the university’s strong and sustained research capabilities. Distinguished Professor Su-Fen Chen, Chair Professor of the Graduate Institute of Digital Learning and Education and concurrently Academic Vice President, previously received the Outstanding Research Award in 2019 (Year 108 of the ROC calendar). Her renewed recognition highlights her long-term and in-depth contributions to educational research. Her areas of expertise include the nature of science, eye-tracking research, digital science experiments, metacognition, social networks, technology integration in physical education, .　…more

臺科大AI脈波智慧健檢再進化 從慢性病到失智症等25種風險評估一次到位

Taiwan Tech advances AI Pulse Health Screening, Enabling 25-in-1 Risk Assessment from Chronic Diseases to Dementia

2026-02-23



臺科大醫學工程研究所教授許昕長期投入 AI 脈波檢測穿戴裝置與生醫電子技術研究，繼2023 年以新冠疫苗副作用偵測警示作為主題獲得國家新創獎後，團隊持續深化技術及AI分析，逐步將原有12項分析指標，擴充至25項涵蓋多種慢性疾病與癌症風險評估，建立整合性的健康評估平台，以「輔助評估血管健康與慢性疾病風險之脈波 AI 穿戴裝置」再度榮獲第 22 屆國家新創獎「學研新創獎」殊榮。許昕指出，面對全球醫療與健保成本持續攀升，及早發現、及早治療是降低整體照護負擔的關鍵，因此團隊透過手環或指環在一分鐘內完成的 AI 脈波檢測，協助醫師與民眾在複雜的人體狀態中，快速辨識最需要優先關注的健康風險。同時以「點、線、面」的概念建立健康評估模式，從單一疾病(點)、系統性疾病延伸(線)，到整體人體健康狀態(面)，讓穿戴裝置不只是量測工具，而是具備臨床意義的智慧健康輔助系統。所以團隊持續朝「早期化」與「生活化」兩大方向全面拓展應用情境，針對高齡族群，系統納入心智健康、肌少症、貧血及洗腎等疾病評估，協助及早介入治療...點擊看更多

Professor Hsin Hsiu of the Graduate Institute of Bioedical Engineering at Taiwan Tech has long been dedicated to research on AI-based pulse wave detection wearable devices and biomedical electronics technology. After receiving the National Innovation Award in 2023 for a project on COVID-19 vaccine adverse effect detection and warning, his team continued to deepen its technology and AI analysis, gradually expanding the original 12 analytical indicators to 25, covering a wide range of chronic diseases and cancer risk assessments. They established an integrated health evaluation platform and, with their project titled “An AI Pulse Wave Wearable Device for Assisting the Assessment of Vascular Health and Chronic Disease Risk”, once again received the 22nd National Innovation Award in the Academic Research Innovation category. Professor Hsin Hsiu pointed out that in the face of continuously rising global medical and health insurance costs,.....more

臺科大與校友打造小黑蚊生態防線，攜手復育校園綠意

Taiwan Tech and Alumni Build Eco-defense Against Biting Midges, Reviving a Greener Campus

2026-02-19



因應校園小黑蚊問題，國立臺灣科技大學於去(114)年暑假之後6個月，導入「全球永續創生推廣協會」吳厚德博士建立的微生物組（microbiome）施作技術，於管理學院前方的大草皮區建置小黑蚊「微生態防線」，面積達5,000平方公尺。該作法以改變土壤微生物相為核心，藉由擾亂棲地生態、切斷小黑蚊食物鏈、抑制幼蟲發育與破壞成蟲繁殖，建立一套自然且可持續的生物性防治機制，不僅有效減緩小黑蚊滋擾，也有助於生態系統的長期健康發展。處理小黑蚊計畫能夠順利進展，首先要感謝傑出校友李隆安的穿針引線，並須特別感謝臺科大傑出校友聯誼會會長陳鴻儀的大力支持與慷慨捐款。陳鴻儀長年關心臺科大發展，對校園環境改善與永續治理高度重視，促成此次跨領域結合校友資源與科研應用的合作典範。臺科大主任秘書郭俞麟表示，與傳統化學防治手段相比，導入微生物組的作法更加環保且無害，兼顧校園師生健康與環境永續。...點擊看更多

In response to the problem of biting midges on campus, Taiwan Tech introduced the microbiome application technology developed by Dr. Hou-Te Wu of the Global Sustainable Creation Promotional Association for six months following last (Year 114) summer vacation. A “micro-ecological defense line” against biting midges was established on the large lawn in front of the School of Management, covering an area of 5,000 square meters. This approach centers on altering the soil microbiome by disrupting habitat ecology, cutting off the food chain of biting midges, inhibiting larval development, and interfering with adult reproduction. It establishes a natural and sustainable biological control mechanism that not only effectively reduces midge infestations but also contributes to the long-term health of the ecosystem.....more

傳承・創新・展望 共築工程新未來 臺科大機械工程系喜慶50週年

Legacy, Innovation, Vision: Department of Mechanical Engineering at Taiwan Tech celebrates 50 years of excellence

2026-02-12

國立臺灣科技大學機械工程系迎來創系50週年，特別舉辦「創系50週年慶祝研討會」，以「傳承、創新、展望」為主軸，邀集各界貴賓、系友與師生齊聚一堂，回顧半世紀來的深厚根基，共同展望智慧製造、半導體與人工智慧與工程教育的新未來。研討會由校長顏家鈺致詞揭開序幕。顏家鈺表示，機械工程是臺科大的核心學門之一，五十年來培育無數產業菁英，在國家重大工程、半導體、智慧製造與醫工領域發揮關鍵影響力，未來學校將持續以跨域整合與AI導入為方向，展現產



業鏈結與前瞻研究的布局，深化工程教育的國際競爭力。主任秘書郭俞麟指出，在高階人才培育方面，半導體高階經營暨研發碩士學程與智慧電動車研究中心的成果亦成為亮點，以及說明師生在國際教育與技術交流的成果，展現臺科大機械系在全球的影響力。...點擊看更多

The Department of Mechanical Engineering at Taiwan Tech celebrates its 50th anniversary and has specially organized the “50th Anniversary Celebration Symposium”. Centered on the theme “Heritage, Innovation, and Vision”, the event brought together distinguished guests, alumni, faculty, and students to reflect on five decades of solid foundations and to jointly look ahead to a new future in smart manufacturing, semiconductors, artificial intelligence, and engineering education. The symposium opened with remarks by President Jia-Yush Yen. President Yen stated that mechanical engineering is one of the core disciplines of Taiwan Tech. Over the past fifty years, the department has cultivated numerous industry leaders who have played key roles in major national projects, the semiconductor sector, smart manufacturing, and biomedical engineering. Looking ahead, the university will continue advancing interdisciplinary integration and the incorporation of AI, ...more

從實作走向國際 臺科大學生林睿杰於日本機器人賽事嶄露頭角

From Hands-On Innovation to the Global Stage: Taiwan Tech student Rui-Jie Lin excels at Robotics Competition in Japan

2026-02-09



國立臺灣科技大學不分系大一學生林睿杰，長期投入人型機器人領域，自國中起即開始接觸相關技術，並在實作與競賽導向的學習歷程中，逐步累積機構設計、零組件選用及系統整合等工程能力。其學習模式以實務製作為核心，展現高度產業導向的工程思維。林睿杰表示，由於投入時間較早，在人型機器人研發上，長期聚焦於競賽實務與性能優化，包含結構配置、穩定度調校及整體完成度提升等關鍵面向，並逐步與產業需求接軌。這樣的背景，讓他在參與國際賽事時，能將多年累積的實作經驗具體呈現在作品中。　2025年，林睿杰前往日本參加國際人型機器人競賽「Robo-One」，與來自多國的隊伍同場競技，最終榮獲第四名，並同時獲得日本工業零組件大廠 Misumi 頒發的「Misumi 特別賞」。該獎項主要肯定作品在工程設計完整度與產業應用潛力上的表現，也是林睿杰以臺科大學生身分站上國際舞台、驗證多年人型機器人實作成果的重要里程碑。林睿杰也將過往於校外累積的實務與競賽經驗，帶回校園體系中重新整理與深化。...點擊看更多

Jui-Chieh Lin, a first-year undeclared major student at Taiwan Tech, has long been dedicated to the field of humanoid robots. He began engaging with related technologies in junior high school and, through hands-on and competition-oriented learning experiences, gradually developed engineering capabilities in mechanical design, component selection, and system integration. His learning approach centers on practical fabrication, demonstrating a highly industry-oriented engineering mindset. Lin stated that because he began investing time in the field at an early stage, his humanoid robot development has long focused on competition practice and performance optimization, including key aspects such as structural configuration, stability tuning, and overall completion enhancement, while gradually aligning with industry needs. This background enabled him, when participating in international competitions, to concretely present years of accumulated hands-on experience through his work., ...more.

臺科大曹譽鐘接任作業研究學會理事長 強化智慧決策與韌性營運

Professor Yu-Chung Tsao appointed President of the Operations Research Society of Taiwan, advancing smart and resilient operations

2026-02-03

國立臺灣科技大學管理學院曹譽鐘院長近日榮膺當選為「台灣作業研究學會第十二屆理事長」，正式接掌學會未來發展方向。曹譽鐘表示，面對全球高度不確定的經濟與產業環境，作業研究所代表的科學化決策方法，正是支撐台灣產業競爭力、公共治理、韌性與永續轉型的關鍵能力。「作業研究不只是一門學術方法，更是一種面對複雜世界、做出科學與理性決策的能力。」曹譽鐘強調，台灣作業研究學會未來將以「智慧決策、韌性營運、永續轉型」為核心主軸，期許學會成為支撐台灣產業升級與社會發展的重要決策型智庫。此一殊榮不僅展現其在作業研究與管理科學領域的深厚學術實力與卓越領導能力，也為臺科大再添學術榮耀。台灣作業研究學會多年來持續推動作業研究（Operations　Research,　OR）在學術研究、人才培育與實務應用上的發展，研究領域涵蓋智慧製造、供應鏈管理、交通運



輸、能源系統、金融工程與公共政策等重要決策議題。曹譽鐘指出，隨著人工智慧快速發展、供應鏈重組、能源轉型與極端氣候風險升高，決策問題已不再只是追求效率， …點擊看更多

Dean Yu-Chung Tsao of the School of Management at Taiwan Tech has recently been elected as the 12th President of the Operations Research Society of Taiwan, formally assuming leadership over the society's future development. Professor Tsao stated that amid a highly uncertain global economic and industrial environment, the scientific decision-making methodologies represented by operations research are precisely the key capabilities that support Taiwan's industrial competitiveness, public governance, resilience, and sustainable transformation. "Operations research is not merely an academic methodology; it is a capability for confronting a complex world and making scientific and rational decisions", Professor Tsao emphasized. He noted that the Operations Research Society of Taiwan will adopt "intelligent decision-making, …more

整合AI與醫學影像分析輔助臨床診斷效能 臺科大博士生榮獲Google東亞博士獎學金

Taiwan Tech PhD student wins Google East Asia Fellowship for AI-powered medical imaging analysis

2026-02-02



國國立臺灣科技大學電資學院資訊工程系博士生Zolnamar Dorjsembe，以人工智慧(AI)與電腦視覺技術應用於醫學影像的研究成果，從全球眾多頂尖研究生中脫穎而出，榮獲「2025 年 Google 東亞博士獎學金(Google East Asia PhD Fellowship)」，並可接受來自Google Health 團隊的研究導師指導，精進相關技術與研究方法，推動後續研究發展。 Zolnamar的研究聚焦將 AI 與電腦視覺技術導入醫學影像分析與臨床放射診斷，以實際醫療場域需求為核心，致力於開發可落實於臨床使用的AI 醫療影像判讀與分析工具，她期望研究成果不僅停留在演算法表現，而是能實際融入醫療流程，協助醫療人員提升診斷效率與準確度，發揮具體效益。來自蒙古的 Zolnamar 於 2020 年以教育部獎學金身分來臺就讀臺科大資訊工程系碩士班，在教授鮑興國指導下展現研究潛力，後續以臺科大獎學金支持逕讀博士班。…點擊看更多

Doctoral student Zolnamar Dorjsembe from the Department of Computer Science and Information Engineering, College of Electrical Engineering and Computer Science at Taiwan Tech, has distinguished herself among top graduate students worldwide with her research achievements in applying artificial intelligence (AI) and computer vision technologies to medical imaging. She has been awarded the "2025 Google East Asia PhD Fellowship" and will receive research mentorship from the Google Health team to further refine related technologies and research methodologies and to advance her subsequent research development. Zolnamar's research focuses on integrating AI and computer vision technologies into medical image analysis and clinical radiological diagnosis. Centered on real-world healthcare needs, she is dedicated to developing AI medical imaging interpretation and analysis tools that can be implemented in clinical practice.. …more.