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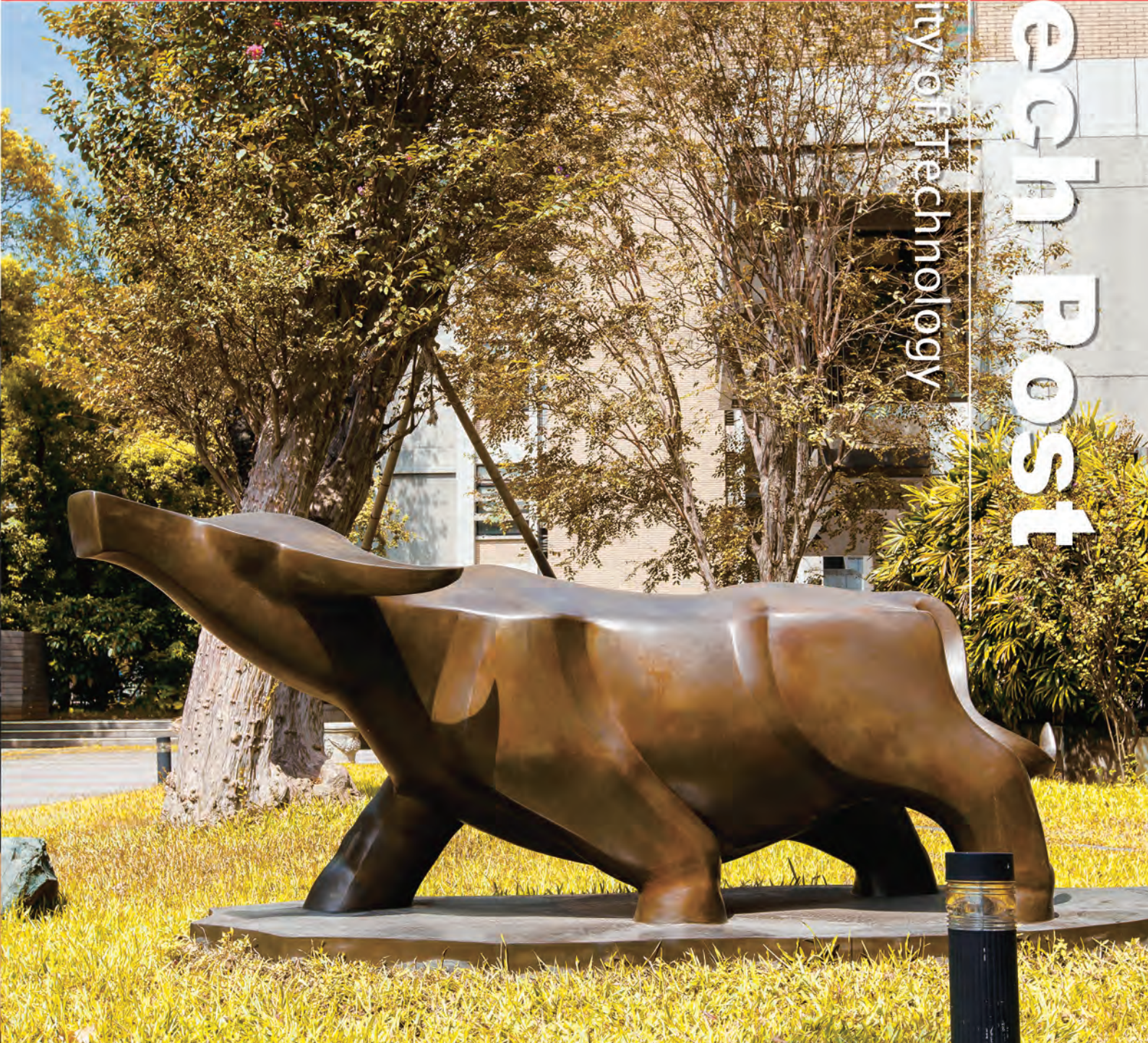
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Taipei Tech Post

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Among all the Taiwanese universities listed in the top 100 of QS Asia University Rankings, Taipei Tech has made the greatest leap, rising from the 95th to the 88th

Taipei Tech Reaches New High in 2021 QS Rankings

TOP 100

ASIA

QS WORLD
UNIVERSITY
RANKINGS

2021

The British education consulting company Quacquarelli Symonds (QS) has recently announced their results of 2021 QS Asia University Rankings. Taipei Tech has reached a new record high and is ranked 88th. Among all the Taiwanese universities listed in the top 100, Taipei Tech has made the greatest leap, rising from the 95th to the 88th and domestic ranking from the 11th to the 9th.

The QS rankings utilizes eleven indicators to assess university performance, including academic peer review, employer reputation, faculty-student ratio, international orientation, citations per faculty member, and total faculty publications. Taipei Tech is able to make the great leap in ranking due to the progressive development and expansion of international research network.

In recent years, Taipei Tech has been actively engaged in building partnerships with prominent universities, including Massachusetts Institute of Technology (MIT), Penn State University (Penn State), and Tohoku University (TU). Taipei Tech has also worked with the University of Texas at Arlington (UTA) to offer the AI and Big Data International Dual-degree Program and has rolled out the International School of Smart Sensing Systems in collaboration with the University of Cincinnati (UC).

Wang Sea-Fue, President of Taipei Tech, points out that Taipei Tech is strong in the research and development in three areas: energy, smart sensor, and advanced materials processing. Taipei Tech is working with top American universities to establish several research centers. These research centers will be housed in the new research building that will soon open. This will be the base for integrated research and development, interdisciplinary talent cultivation, and international research communication, making Taipei Tech a top international technological university. Wang has also attributed the partnership with some world-renowned universities to the connection of Taipei Tech alumni.

In addition to rising to the 88th in the 2021 QS Asia University Rankings, Taipei Tech has also entered the top 500 in the 2021 QS World University Rankings for the first time, ranking 488.

2020 幸福科技3.0

創業交流與成果展示活動暨頒獎典禮



Students Design New Retail Experience in Clevo's Taipei Twin Towers Internship

On October 30th, Taipei Tech Vice President Jen Yi-Jun conferred a Certificate of Appreciation to Clevo Co. Vice Chairman Tsai Ming-Hsien to thank Clevo for providing students internship opportunities in developing new retail model suited for the post-COVID time.

Clevo, a Taiwanese computer manufacturer, together with the real estate developer Honhui Group have recently won the bid to develop the Taipei Twin Towers, a skyscraper project that is located next to the Taipei Main Station that will feature hotel, office, and retail space. In this internship, Clevo invited students to develop ideas that integrate online and on-site shopping experience tailored for the "new normal" in the post-pandemic time.

Tsai indicated that Clevo started their first collaboration with Taipei Tech through a summer internship program in 2019 at their Shanghai Buynow flagship store. In this year's Taipei Twin Towers internship, Clevo gave the direction of a smart mall that is integrated with the cultural significance of the surrounding area. Tsai is impressed and gives high praise to the ideas that the students present.

The internship program had a selection process that was conducted by the Taipei Tech Innovation and Incubation Center. The selection was broadcasted live online and had thousands of viewers from all over Taiwan. Nine students from Taipei Tech, National Chengchi University, National Cheng Kung University, National Sun Yat-Sen University, as well as two exchange students from German's University of Applied Sciences Potsdam were selected.

Wang Sheng-Ming, professor at Taipei Tech Department of Interaction Design, and a manager from Clevo supervised and advised the students in the internship program. They gave the students the topic "Disruptive Retail Model for the Clevo Taipei Twin Towers Project," and selected five aspects for the students to focus on when coming up with design ideas: city image, hub, lifestyle, integration, and symbiosis.

Wang Yu-Chen, a Taipei Tech Department of Interaction Design student, noted that the biggest challenge is to design the flow of the five-hundred-thousand commuters that are projected to travel through this project daily. Another challenge is to integrate the modern retail space and the surrounding historic sites and make the two co-exist and flourish together.

The students who participated in the two-month internship program had conducted field research, brand positioning, and analysis of existing retail apps to finally generate an online, community-oriented app that provides feedback and recommendation function to help navigate in the area.

In addition, students from Taipei Tech Department of Interaction Design utilized Web VR technology and Line Bot to create a service named "I'm Shopaholic." Users can navigate the area using virtual reality on their phone. The service also takes into account bandwidth and adjusts accordingly. This project has been presented at several conferences. It has also won the second place in the DEMO Paper Award category at the 2020 IEEE International Conference on Consumer Electronics in Taiwan.

北科大 x 宏碁

智慧健康建築趨勢論壇



Taipei Tech and Acer Sign Partnership in Forum on Smart-health Buildings

On December 15th, Taipei Tech and Acer Inc. held a forum and inked the partnership on smart devices that are designed to improve air quality in buildings. Through this partnership, the two parties aim to pour resources together to develop technologies and cultivate talent that can expand the adaptation of smart health devices in buildings in Taiwan.

Jen Yi-Jun, Vice President of Taipei Tech, indicated that Taipei Tech has been deeply engaged in areas related to indoor environment quality control for years. They include smart sensor, buildings enabled with smart health technologies ("smart-health buildings"), and refrigeration and air conditioning engineering. The research and development capacities of Taipei Tech are widely recognized by the industry. "By working together with Acer," said Jen, "I believe we can take the development of smart-health buildings in Taiwan to the next level".

In March, Acer launched a campaign to promote their own air quality improvement solutions. Samuel Chang, Acer's Taiwan operations chief, mentioned that air quality has become an even more significant issue during COVID-19. Chang is confident that through integrating resources of Acer and Taipei Tech and working closely with the Environmental Protection Administration and the Industrial Technology Research Institute, this partnership can redefine smart-health buildings.

Tsai Meng-Yu, Director of the Department of Air Quality Protection of the Environmental Protection Administration, noted that the government has been strictly implementing the Indoor Air Quality Act since 2011 to monitor the air quality of indoor sites such as universities, hospitals, train stations, gyms, and entertainment facilities. "We have also worked with local governments to establish a cross-regional air pollution response team to maintain air quality," said Tsai.

Eco-friendly building materials are also the focus in the forum. Hu Shih-Cheng, Professor of Taipei Tech Department of Energy and Refrigerating Air Conditioning Engineering, explained that the excess building density of urban area can easily lead to the Sick Building Syndrome that causes potential health problems. Shao Wen-Cheng, Director of Innovative Green Building Materials Research and Promotion Center of Taipei Tech, indicated that using eco-friendly building materials can effectively prevent Sick Building Syndrome.

According to the World Health Organization (WHO), nine out of ten people worldwide breathe polluted air. Clean and safe air in population-concentrated buildings is especially important in a pandemic such as COVID-19.

Taipei Tech and Everlight Electronics Light Christmas Tree, Pray for Peace and Hope

Event

Taipei Tech and Everlight Electronics held a Christmas tree lighting ceremony to pray for peace and hope for the coming year. At the ceremony, Chien Wen-Hsiu, the Chairwoman of Everlight Cultural Foundation and also a prominent vocalist, gave a heart-soothing performance of "Silent Night," accompanied by the Taipei Tech choir.

To fill the campus with festive atmosphere at year-end, Taipei Tech has been holding Christmas tree lighting ceremony for the past five years. The tree this year is decorated grander than ever.

The ten-meter-high Christmas tree is sponsored by Everlight Electronics. It is composed of more than eight thousand ornament balls and forty thousand LED light bulbs. The Christmas tree is scheduled to light up in the evening together with the lamps on the campus.

At the ceremony, Wang Sea-Fue, President of Taipei Tech, expressed his appreciation to Robert Yeh, Chairman of Everlight Electronics, and Chien for their support and the staff behind the event that to make it successful. Yeh is an alumnus and honorary PhD receiver of Taipei Tech.

Yeh has also been very supportive toward campus safety improvement projects. In addition to the Christmas tree this year, he has donated the LED light bulbs used in the seventy lamps on the campus. The light bulbs are more energy efficient and emit more brightness, effectively improving the overall brightness of the campus.

There were also many other government officials present at the ceremony, including Chairman Chen Yu-Xin of Green Peace Broadcasting Station, Commissioner Chen Jia-Chang of the Taipei City Police Department, and Director Syuan-Jie Cih of the Police Broadcasting Service.

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Chien Wen-Hsiu, the Chairwoman of Everlight Cultural Foundation and also a prominent vocalist, gave a heart-soothing performance of "Silent Night"



Taipei Tech and Everlight Electronics held a Christmas tree lighting ceremony to pray for peace and hope for the coming year



Shen has been participating in volunteer work and charity for more than thirty years, and his charity work has reached all over the world

other renovation projects on campus were fully funded by Shen,” said Wang, “Shen hopes that Taipei Tech students will both achieve academic excellence and cultivate cultural competence.”

Shen’s charity work has reached all over the world. He has donated fund for the disaster relief in North Korea, Indonesia, East Africa, and many more. He is also a long-time volunteer at the Tzu Chi Foundation and has donated to the COVID-19 pandemic emergency aid, Indian Ocean earthquake and tsunami, Tohoku earthquake in Japan, and Typhoon Morakot reconstruction in Taiwan.

Shen has also funded the Topkey Foundation that aims to promote corporate social responsibility, education, and social welfare. A total of sixty-five companies and forty charity organizations have participated in more than seventy public welfare services that Topkey Foundation organized. In addition, one thousand five hundred students from one hundred ninety-eight high schools have participated in the foundation’s National Youth Summit Forum, in which high school students gather and brainstorm on social issues. “I built Topkey to be a people-oriented corporation,” said Shen, “and by gathering the positive energy of our employees and volunteers, we can create a positive force in the society.”

Shen Wen-Chen, Chairperson of Topkey Corporation and Taipei Tech honorary doctorate receiver, was awarded the Compassion Award on December 20th. Father Giuseppe Didone, a Catholic priest long devoted to healthcare in Hualien, and Master Hsing Yun, founder of the Fo Guang Shan Buddhist Order in Taiwan, have also received the 2020 Compassion Award, which celebrated its 15th anniversary this year. Shen will donate the prize money, one hundred fifty thousand USD, to charity groups.

The Compassion Award was established by the Chairman of the Hong Kong & Macao Taiwanese Charity Fund, Lin Tian-Maw, who is also a Taipei Tech alumnus. Taiwanese model and actress Lin Chi-Ling, vocalist Chien Wen-Hsiu, and TSMC Charity Foundation Chairperson Sophie Chang have all previously received this award.

Shen Wen-Chen has been participating in volunteer work and charity for more than thirty years. He has worked with dozens of corporate owners and charity groups to raise funds for disaster relief, shelters, building facilities for disadvantaged people, and improving the wellbeing of seniors living alone. Shen has donated over four hundred million NTD.

Wang Sea-Fue, President of Taipei Tech, who is the presenter and sponsor for Shen, noted that Shen has made many contributions to Taipei Tech over the years. “The refurbishment of Taipei Tech’s Arts & Cultural Center and many



Taipei Tech Alumnus Shen Wen-Chen Awarded 2020 Compassion Award

Shen Wen-Chen, Chairperson of Topkey Corporation and Taipei Tech honorary doctorate receiver, was awarded the 2020 Compassion Award

Taiwanese Students Bag Design

Award for ‘Color-Changing’ Stickers

Article courtesy of The China Post (Content by Vivian Hsiao)



Barcodiscount designed stickers that would change colors and numbers to reduce waste for supermarkets (Photo courtesy of Barcodiscount/James Dyson Awards)

Three students from the National Taipei University of Technology recently took home the “Best of the Year” award at iF Design Talent Award 2020_1 for their innovative color-changing labeling stickers that help reduce waste from supermarkets.

Named Barcodiscount, the project design involves discount stickers that change colors automatically as products edge toward their expiration date.

According to the students, the design was inspired by their observation of produce going to waste as supermarkets usually place discounts on food nearing expiration dates, but need staff to manually replace stickers which is “time-consuming and laborious”.

For this reason, they came up with the stickers that can be activated when the label is attached to the product.

According to Barcodiscount’s website, “the bottom layer is ‘no discount’ and becomes 20% off over time. Then, the upper layer, which is transparent, becomes a white background with the words 40% off while covering the bottom layer.”

The barcode also changes slightly as well, so they can be easily scanned at checkout with the correct discount amount, the students added.

“Barcodiscount only needs one sticker, and it reduces the burden on staffs’ workload and increases efficiency.”

Believing there to be a great incentive to consumers for buying discounted products, students Chang Yen-Yu, Huang Hsin-An and Chen Ching-I wrote in their proposal that they hoped to emphasize it as buying discounted foods “reduce waste by an average of 33%, while revenues increase by an average of 6.3%.”

Their design was internationally recognized, and not only won the “National runner-up” for the U.K. James Dyson Award 2020 but it was also awarded “Best of the year” iF Design Talent, acknowledging it as an innovative design that is relevant to businesses and everyday life.

According to foreign media, Barcodiscount is looking to roll out the technology in Taiwan and promised to “pay attention to the color-changing technology development” to ensure their design can be realized in the future.



Student-made Wooden Puppets Manifest Traditional Woodcraft

Wooden puppets crafted by students of Taipei Tech, National Taichung University of Science and Technology, and National Dongshih Industrial High School are to display in the “Popop Taipei Exhibition” from December 5th, 2020 to January 3rd, 2021. These students took part in a two-week-long workshop in summer 2020 to learn from woodcrafting masters and produced these puppets as their final project.

Taipei Tech Center of Woodwork Technology and Innovation (CWTI) held the woodworking workshop in Fengyuan, Taichung. Five local masters specialized in wood quality evaluation, lathe, tiaotai (customized lathe), scroll saw, and woodcarving, together with a Taipei Tech instructor specialized in wood inlay, gave hands-on lessons to the thirty students who took part in this workshop.

According to Thomas C.K. Yang, Vice President and Deputy Director of the University Social Responsibility (USR) Office of Taipei Tech, this workshop is part of the Woodcraft Cultural Legacy Renewal Project, initiated by the Taipei Tech USR Office. This project aims to revitalize the woodworking industry by creating opportunities for experienced woodworking masters to pass on their skills to young learners. Yang also points out that this project echoes the United Nation’s Sustainable Development Goals (SDGs) as it promotes three of the SDGs: “Quality Education”, “Sustainable Cities and Communities”, and “Industry, Innovation, and Infrastructure.”

Students who participated in the workshop gave it high praises. “Though it was quite challenging to produce the wooden puppets in just two weeks,” said student Huang Yu-Chen, “we had a great sense of accomplishment when the products were finished.” Another student Hsu Yu-Wen also indicated that this project requires not only professional skills but also the abilities to conduct interdisciplinary cooperation and to be a team player. “To maintain close communication is the key to success in this project,” said Hsu.

The Director of Taipei Tech CWTI, Chang Ro-Han, mentioned that they have completed several projects with the Woodcraft Cultural Legacy Renewal Project, including the two-week workshop, a two-week on-site internship, and several months of interview and video-recording of woodworking masters. “Through the preservation of cultural heritage and technical skills, we hope to transfer the valuable knowledge of traditional woodcraft to young students and further spark creativity,” said Chang.

The CWTI will manufacture the puppets made by the workshop students into ready-to-use packages for future woodworking classes. The center also plans on rolling out woodworking classes for beginners to promote woodcraft education next year.

The Woodcraft Cultural Legacy Renewal Project aims to revitalize the woodworking industry by creating opportunities for experienced woodworking masters to pass on their skills to young learners

