

HIVE BUZZ



MMU Researchers
Design and Develop
the First UAV SAR

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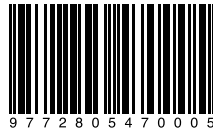
MMU Receives
**CXP Best Customer
Experience Awards 2021**

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Assoc. Prof. Ts. Ir. Dr. Chan Yee Kit
Recipient of Top Research Scientist Malaysia 2021

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An Interview with
Chung You Jing,
Champion of
Taekwondo International 2021

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Dear Readers,

We are now in the year of 2022 and I hope that we will continue to strive hard in charting our success stories this year despite Covid-19 still hovering around us. I am glad that we could meet again in the second issue of Hive-Buzz, MMU's e-magazine, featuring stories about our citizens, their activities, as well as achievements in the second half of 2021.

The university is blessed with exemplary citizens, whose undertakings have led to several interesting stories which I hope would inspire you to create your own success. Remember, the people you will read about in these pages are no different from you and I.

“ In December 2021, MMU was awarded the CXP Best Customer Experience Awards 2021. This is a testament to the university's commitment to providing continuous excellent customer services. I would like to dedicate this prestigious award to all of MMU's customers, staff, and stakeholders. ”

Rather, they have worked hard to overcome their obstacles, and I hope you would be motivated to do the same. In this issue, our main stories revolve around the success of Assoc. Prof. Ts. Ir. Dr. Chan Yee Kit, who was awarded the Top Research Scientists Malaysia by the Academy of Sciences Malaysia.

Another very important event happening in 2021 was MMU serving as Pusat Pemberian Vaksin (PPV). I am very proud of our involvement in this, please read about it in the following pages. I am also excited to mention MMU's great effort in organising the Research Innovation Commercialisation and Entrepreneurship Showcase (RICES) 2021 on 16 November 2021. YB Dato' Sri Dr Adham, the Minister of Science, Technology and Innovation, who attended the ceremony, commended MMU's commitment in organising this event as an avenue for innovators from various backgrounds to present their inventions, innovations, and research and development (R&D) commercialisation results.

Other MMU citizens, too, were busy throughout the year. A Faculty of Law student emerged as champion in two Taekwondo tournaments. In November 2021, students and lecturers from Faculty of Creative Multimedia and Cinematic Arts showcased their arts at Muzium Telekom Kuala Lumpur, pulling quite the crowd, which included the Deputy Minister of Communication and Multimedia, Yang Berhormat Datuk Ahmad Zahidi Zainul Abidin.

A great moment happened when MMU was awarded the CXP Best Customer Experience Award in December 2021. This is a testament to the university's commitment to providing continuous excellent customer services. I would like to dedicate this prestigious award to all of MMU's customers, staff, and stakeholders. This award is for all of us, and I am proud of your contribution, big or small. Well done everyone!

There are many other interesting stories in this edition. I wish you Happy Reading.

Prof. Dato' Dr. Mazliham Mohd Su'ud
President/CEO of Multimedia University



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The first UAV SAR designed and developed by Malaysian team

Introduction

Assoc. Prof. Ts. Ir. Dr. Chan Yee Kit (right) from the Faculty of Engineering and Technology (FET) has made our university and the Malaysian researcher community proud when he was announced as one of the 2021 Top Research Scientist Malaysia (TRSM) recipients. Dr. Chan, who is the Deputy Dean of the faculty was recognised among 22 top scientists in the country during a virtual announcement by the Academy of Sciences Malaysia (ASM) on 28th September 2021.



HIVE BUZZ is very pleased to have him for an interview despite his busy schedule. In our session, he talked about one of his creations, an Unmanned Aerial Vehicle (UAV) - based airborne Synthetic Aperture Radar (SAR) system.

HIVE BUZZ (HB): Before we go further, could you please describe your invention?

Dr. Chan: A new UAV Synthetic Aperture Radar (SAR) is a wonderful invention. It was developed at Multimedia University, in collaboration with the Agency of Remote Sensing Malaysia (Currently known as Malaysian Space Agency). The SAR operates at C-band, single VV -polarization, with 2m x 2m spatial resolution. Its unique features include being compact in size, light weight, low power and capable of performing real-time imaging. A series of field measurements and flight tests have been conducted and superior quality SAR images have been obtained. The system can be used for monitoring and management of earth resources such as paddy fields, oil palm plantation and soil surface. It was patented in 2021 and cost of invention is RM1.5 million.



HB: Who are the research team members?

Dr. Chan: I am blessed to have great team members to make our dream come true. They are Ir. Professor Dr. Koo Voon Chet, Ir. Professor Dr. Fabian Kung Wai Lee, Assoc. Prof. Dr. Lim Tien Sze, Ir. Dr. Chua Ming Yam, Dr. Lim Chee Siong, Dr. Lo Yew Chiong and Mr. Yap Wen Jiun.

HB: What are the unique features of UAV SAR?

Dr. Chan: It is a compact full-scale C-band can fit into a medium size UAV and operable to 1000m. The overall weight of the system is 15 kilograms and is able to record ground hours. The reconfigurable FPGA based signal generator enables the system to vary the pulse width and bandwidth of the system, and thus allow the system to be operated at different ranges and conditions. The microstrip antenna was designed with beam forming in order to have same gain across all the received signal from the different ranges from the ground.

SAR?

SAR system that at altitudes of up to 1000m is less than images up to 2

HB: Why is this invention relevant for the community and the nation?

Dr. Chan: This is the first airborne and UAV based Synthetic Aperture Radar (SAR) designed and developed by a Malaysian Team. It serves as a test bed for the subsequent development of SAR systems in Malaysia. The development of this system marks the advancement of Malaysian technology, particularly within the scope of remote sensing. This system could be used for environmental monitoring, flood monitoring, precision agriculture, mapping of the earth surface, and many more. As SAR is a microwave sensor, it could be operated in situations weather, since microwave signals can penetrate through cloud and rain. Therefore, it is very useful for continuous monitoring of terrestrial resources.



HB: What is the commercialization potential of this technology?

Dr. Chan: There is a great opportunity for wealth creation because radar sensing, especially synthetic aperture radar (SAR), is a very niche and focused research area. Many countries that have already acquired this technology are not willing to share this technology, since it could be employed in military applications. Considering how vast its applications are, versus its limited availability, it could be said that there is vast business potential for the commercialization of this radar system.



HB: What inspired you to produce more invention?

Dr. Chan: My inspiration is to use remote sensing technology, especially microwave remote sensing, for the betterment of the human condition, and an improvement of our lifestyle.

HB: What does UAR SAR means to MMU?

Dr. Chan: In Malaysia, MMU is the first institution to have its own SAR technology, and consequently, the first to develop several SAR systems in different bands. Developing this system is proof of our expertise. In terms of remote sensing applications, UAV-based imaging radar such as SAR has great potential due to its all-day, all-weather capabilities. As compared to conventional airborne or space-borne SAR systems, UAV SARs have several advantages which include low cost, low risk and timely operations. SAR is a high-resolution remote sensing sensor which is independent of flight altitude, and independent of weather, as SAR can select the correct frequency to avoid signal attenuation due to weather or cloud. SAR can be operated in day and night as it provides its own illumination.

HB: Besides UAR SAR, what are other inventions you have produced so far?

Dr. Chan: There are about 8 inventions including an RF transceiver (L-, S- C- band), Ground based full polarization imaging radar, ground based microwave imaging sensor for precision agriculture, High Speed Embedded Image Processor for Synthetic Aperture Radar, Drone Based Hyperspectral Imaging System for Precision Agriculture)



Assoc. Prof. Ts. Ir. Dr. Chan Yee Kit
Top Research Scientist Malaysia 2021



Dr. Chan received his B.Eng (Hons) in Electrical Engineering from the University of Malaya. He obtained his MEngSc and PhD in Microwave Engineering from the MMU.

He is currently the Deputy Dean (Research & Industrial Collaboration) and Associate Professor of Faculty of Engineering and Technology, MMU. His research interest includes synthetic aperture radar design, microwave remote sensing, radar sensor development, RF system design and drone based advanced imaging. He was the principal investigator for the first UAV based synthetic aperture radar (UAV-SAR) developed in Malaysia.

Dr. Chan has been a principal consultant for various government agencies and engineering firms since 2000. He has published more than 100 international journal and conference papers. He was awarded the Senior Membership of Institute of Electrical and Electronics Engineers (IEEE), USA in year 2006. He is a registered Professional Engineer with Board of Engineer Malaysia since 2010. He is also the corporate member of Institute of Engineer Malaysia, Professional Member of Institution of Geospatial and Remote Sensing Malaysia, as well as Professional Technologist for Malaysia Board of Technologist.

Dr. Chan is presently the executive committee member of the IEEE Geoscience and Remote Sensing Society Chapter, Malaysia Section and the Finance Chair for International Geoscience and Remote Sensing Symposium 2022 (IGARSS 2022) in which it is the flagship conference of the IEEE Geoscience and Remote Sensing Society (GRSS). He is also the National Hon. Treasurer for St. John Ambulans Malaysia and serve as the Trustee for "Dato' Dr. Low Bin Tick Education Fund". In 2021, he has awarded the Top Research Scientists Malaysia (TRSM) by the Academy of Sciences Malaysia (ASM).

“ You Don't Have To Be Great To Start, But You Have To Start To Be Great ”

- Zig Ziglar

TRSM Recipients from MMU

2014



Prof. Ir. Dr. Hairul Azhar Bin Abdul Rashid

2014



Prof. Ir. Dr. Sim Kok Swee

2020



Assoc. Prof. Dr. Mardeni Bin Roslee

2020



Prof Dr. Zulfadzli Bin Yusoff

MMU Improves Its Rankings in QS Asia University Rankings 2022

Multimedia University (MMU) continues to strengthen its global achievement when it managed to further improve its position as the 189th ranking in the Quacquarelli Symonds (QS) Asia University Rankings 2022.

Announcement released by QS in November 2021 stated that MMU has improved its position from last year and the university performed among the top 28% of 675 institutions in the 2022 edition.

There are 11 indicators used to assess the university's performances namely academic reputation, employer reputation, faculty student, staff with PhD, citations per paper, papers per faculty, international research network, international faculty, international students, inbound exchange and outbound exchange. Among all indicators, the inbound exchange is the strongest indicator for MMU.



MMU is ranked
#189
in the
QS WORLD UNIVERSITY RANKINGS ASIA 2022

Congratulations
to MMU community for the improvement in the QS World University Ranking Asia 2022. Keep up the momentum and continue to excel in the upcoming years!

MMU Receives CXP Best Customer Experience Awards 2021



Multimedia University (MMU) was awarded CXP Best Customer Experience Awards 2021 on 16 December 2021. Prof. Dato' Dr. Mazliham Mohd Su'ud, the President of MMU received the award at One World, Petaling Jaya, Selangor. The award is the first and only regional award for excellence in customer experience, as judged by their own customers.

This achievement reflects on the university's commitment to providing continuous excellent customer services to its stakeholders. Prof. Dato' also extends his gratitude and dedicates this prestigious award to all customers, staff, and stakeholders of MMU. Also attending the event were Mr. Zambri Pawanchik, Vice President of Strategic Marketing, Admission and Recruitment (SMART), Mdm Sri Kusumawati Mohd Daud, Director of Student Affairs Division (STAD), and a few other MMU representatives.

Congratulations!



Supporting the National COVID-19 Immunisation Programme; MMU Campuses Serve as Vaccination Centres

In supporting the country's effort in achieving herd immunity against the menace that is Covid-19, MMU made a bold move and opened up its Cyberjaya and Melaka campuses to serve as vaccination centres, as part of the National COVID-19 Immunisation Programme.

Operations as an Integrated Mega Vaccine Delivery Centre (PPV) for the Cyberjaya campus began on 15th July 2021, and ran until 5th November. On the other hand, the PPV at the Melaka campus started its operations a month earlier, from 16th June 2021 until 6th October 2021.

Prof. Dato' Dr. Mazliham Mohd Su'ud expressed his excitement over MMU's being selected to be part of the programme, and being involved in the effort of setting up the vaccination centres, since it would directly help to flatten the pandemic proliferation curve. It was also a direct contributor towards helping the nation achieve herd immunity for the disease. On top of that, the programme also brought the university much closer to the community.

The PPV Mega at MMU Cyberjaya caught the attention of many prominent figures during its operations, including Datuk Seri Rina Mohd Harun, Minister of Women, Family and Community Development; Datuk Dr. Mohd Radzi Md. Jidin, Minister of Education; Dato' Seri Amirudin Shari, Menteri Besar of Selangor; Senator Dr. Mah Hang Soon, Deputy Minister of Education; Datuk Seri Haji Mazlan Lazim, Deputy Inspector-General of Police; as well as others. They made separate visits, and were briefed on the operations, in addition to being introduced to the volunteers and frontliners.



Concluding Its Operation as Vaccination Centres

The Integrated Mega PPV at Cyberjaya managed to fully administer 3,000 doses of vaccine per day, while the PPV at the Melaka campus, 600 doses. All in all, a total of 248,186 doses were administered in Cyberjaya and 46,487 in Melaka.

Operating the vaccination centres was a new experience for MMU. Furthermore, it was a great honour, and rare opportunity from the government for the university to give back to society. MMU is always committed and dedicated in providing the best services not only to its stakeholders, but also the communities it serves, as well as the general public. It is hoped that our small contribution has helped our country to ramp up the vaccination rate for Malaysia, and bringing us closer to breaking free from this pandemic.



Appreciating Frontliners and Volunteers

An appreciation dinner was held for all the frontliners and volunteers involved with the operations of the PPV, at Dewan Tun Canselor on 19 November 2021. The event was graced by the presence of Yang Berhormat (YB) Dato' Sri Dr. Adham Baba, Minister of Science, Technology, and Science (MOSTI).

In his speech, YB Minister congratulated MMU for being one of the PPV, in delivering the best services to its intended audience. YB Minister presented certificates of appreciation to the representatives of the government agencies involved, as well as to volunteers.

Prof. Mazliham was also in attendance, and witnessed the presentation ceremony. The event was enlivened with performances from artistes, as well as the volunteers, who performed a Bollywood-themed dance. The guests were also treated to other activities, including a lucky draw, prizes for best costumes, and many other contests.



Art Meets Technology at Traverse: Motions Through Time Showcase



Traverse: Motions Through Time Showcase from 25th November until 28th November 2021, was no ordinary exhibition.

It was a multifaceted showcase that merged art and technology crossing the realms of time and culture. With interactive displays and an exciting quest for visitors to embark on, this showcase promised to dive into the past, highlight the present and immerse one into the future of digital evolution.

Organised at Muzium Telekom, the showcase contained four chapters: ENTER, RETROSPECT, INTER(IN)VENTION, and EXPERIENCE. Most of the visitors were fascinated with the displayed artworks, out of which 70% of them were installed by Multimedia University (MMU) through its Faculty of Creative Multimedia (FCM), Faculty of Cinematic Arts (FCA), and Faculty of Computing and Informatics (FCI).

A total of 106 creative technology works by students and academics from FCM, FCA and FCI were on display, which included paintings, films, animations, product prototypes, projection mappings, interactive displays, augmented reality, and virtual reality games.

Traverse: Motions Through Time was one of the many programmes that took place as part of KLWKND and CENDANA's Art In The City initiative showcasing a series of artistic, cultural and historical programmes in downtown Kuala Lumpur. The four-day showcase also featured many interesting exhibitions and activities ranging from dance, music, opera, fashion, architecture, food, visual arts, design, creative products, traditional crafts, literature, history, and many more.

Yang Berhormat Datuk Zahidi Zainul Abidin, Deputy Minister of Communications and Multimedia Malaysia launched the event on the first day of the exhibition. Also attending the ceremony were Mr. Zambri Pawanchik, Vice President of Strategic Marketing, Admission and Recruitment (SMART); Ts. Dr. Lim Kok Yoong, Dean of FCM; Ts. Shahfeeq Jibin, Deputy Dean of FCA and MMU officers.



Aiman Hans



Sy. Nurleyana Wafa
Sy. Naguib Wafa



Yee Cui Ying



Albert Quek



Datuk Zahidi was impressed with MMU's showcase and he commented that many programmes can be done through digital and integrative approaches. He mentioned that the initiative taken by Yayasan Telekom Malaysia (YTM) and MMU is good and he hope that with MMU students' success at the exhibition, entrepreneurial opportunities in 5G can be established with the help of the Finance Ministry. Zahidi said his ministry would hold discussions with Agensi Pembangunan Ekonomi Kebudayaan (CENDANA) to possibly expand the KLWKND initiative to other states in Malaysia.

"This will be a creative venture and we will need to establish an association together with MMU to perhaps rebrand this project to promote our local arts internationally," he added.

One of the participants of the event was FCM Senior lecturer, Mastura Abdul Rahman, who displayed gorgeous art pieces entitled, *Pesan Ibu*, *Larut Malam 1*, *Larut Malam 2* and Documentary '*Late Night Unveiled*' where each had vivid stories behind every stroke of the brush. She expressed her creativity via new approaches with multimedia and other digital means of making art such as digital photography, photoshop and digital printing.

"I am honoured to have contributed in this showcase by displaying my artworks, which are always inspired by the beauty of traditional Malay, compassing meaningful iconography, intricate composition arrangements, textiles, and decorative arts," said the accomplished artist for over 30 years that received recognition from around the world.

Another FCM lecturer, Sy. Nurleyana Wafa Binti Sy. Naguib Wafa, presented her art piece entitled '*The Tree*' where she incorporated augmented reality feature to enhance the physical painting. The artwork presents sound, digital graphics, and animation in 3-dimension, offering the viewers an immersive experience on top of the physical painting.

"It demonstrates how technology can enhance art as it incorporates virtual elements to complement the physical artwork. As traverse celebrates art and technology, this artwork is relevant in advancing the use of technology for art appreciation," she added.

Meanwhile, students of Bachelor of Computer Science (Games Development), Aiman Hans, 22, and Yee Cui Ying, 22, were excited with the overwhelming response from the visitors to FCI booth that displayed a Virtual Reality (VR) game set. "We had a great experience and learned a new knowledge during this exhibition," Aiman said, as he thanks his FCI lecturer, Albert Quek for giving the opportunity to be involved in the event.



Mastura Abdul Rahman is posing beside her art pieces, *Larut Malam 1* and *Larut Malam 2*



“Success is no accident. It is hard work, perseverance, learning, studying, sacrifice and most of all love of what you are doing or learning to do.”

- Marian Wright Edelman

MMU Lecturers Bag Silver Award at International Science and Social Science Innovation Competition 2021



Three academicians from the Faculty of Business (FOB) namely Ms. Anushia Chelvarayan, Dr. Yeo Sook Fern, and Dr. Lim Kah Boon bagged the silver award for their project, TutorKAY@Home at the International Science and Social Science Innovation Competition (I-SIC III) 2021 on 28th July 2021. Their winning project, which was under the Social Sciences category, also clinched another two special awards: Best Extended Abstract and Most-Liked Virtual Presentation on YouTube at the same competition.

Organised by Academic International Dialogue (AID Conference), I-SIC III aims to bring professionals, academics, researchers, and students in showcasing their innovation and research through poster presentation and demonstration of the product. It also fosters innovations that are related to teaching and learning practices at varsity and school levels.

Congratulations!

MMU Researchers Bring Home 16 Medals and Best Woman Inventor Award at ITEX 2021

Multimedia University (MMU) brought home 16 medals at the 32nd International Invention, Innovation and Technology Exhibition 2021 (ITEX 2021) that was held from 13 December until 14 December 2021. Our researchers grabbed 10 gold medals, 3 silver, and another 3 bronze medals during the closing ceremony at Kuala Lumpur Convention Centre (KLCC). Not only that, a team which was led by Dr. Olivia Tan Swee Leng not only bagged a gold medal but also the Best Woman Inventor Award for the invention, The ‘New Normal’ with Age Friendly Time-Banking.

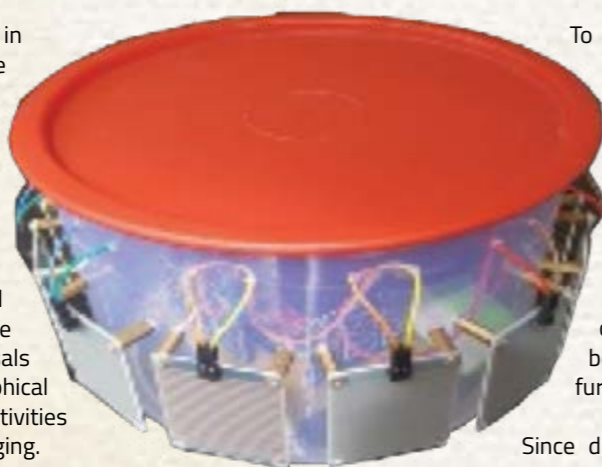
Adopting a hybrid model of an online and physical exhibition this year, ITEX 2021 received close to 500 inventions from participants across 15 countries. Jointly organised by MINDS and C.I.S Network Sdn Bhd, the theme for this year was ‘Reset, Reinvent, Reimagining’. Click [here](#) to view the list of medal winners.

Congratulations!



Surround Sensing-Based Water Wave Detector for Buoy Helps to Preserve Biodiversity

Reservoirs, dams, and lakes in Malaysia are important to provide water resources, generate hydroelectricity, and preserve biodiversity. Many of water resources are located in the remote areas and even in the middle of the forest. However, many illegal activities can happen around the areas such as illegal fishing, logging, swimming, wildlife crimes and illegal waste disposals into the water. Due to geographical location, the monitoring of such activities around these areas can be challenging.



Fortunately, most of these activities create water waves. Different water waves created from different activities will have different propagation directions, amplitudes, frequencies, and durations. For example, wastewater disposal will have water waves radiated from the pollution source. The nearer the region to the pollution source, the higher the contamination concentration and the higher the wave amplitudes.

A group of MMU researchers from Faculty of Engineering and Technology (FET) and Faculty of Business (FOB) namely Dr. Ts. Yeo Boon Chin, Assoc. Prof. Dr. Lim Way Soong, Assoc. Prof. Dr. Robert Jeyakumar A/L Plamel Nathan, Alvin Chong Ming Song and James Sean Gan Wei Xiong discovered a solution to curb these issues by using a mobile floating device to monitor the activities on the water surface.

Dr. Ts. Yeo Boon Chin said, "Capturing the water waves will allow us to detect the abnormal situations. The floating device will also allow the monitoring process to be done at the middle of the lakes, where there is no place to mount the camera traps," he added.

Taking inspiration from a traditional pool safety alarm, the device floats on the water surface to detect the water waves that hit the device. It is easy to use, low cost, low power consumption, and simple. "The device can partially float on the water and the water wave can hit the wall of the device. On the wall of the device, water level sensors are mounted to capture the water levels surrounding the device. The water level sensor can be resistive or capacitive," he explained.

When a water wave is approaching and contact the device, the sensor at the front will encounter high water level. The water wave will keep propagating. However, the device will stay due to inertia. So, all the sensors will encounter high water level at different time, until the water wave leave the device.

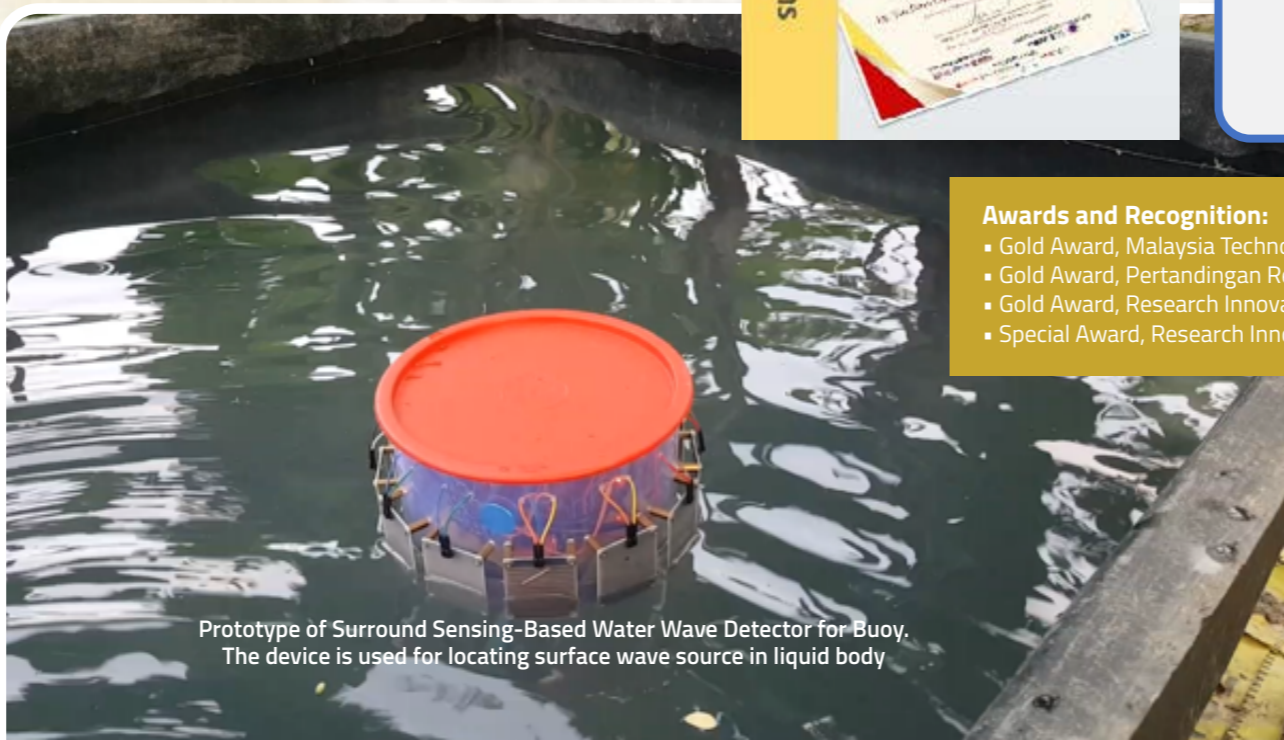
Dr. Yeo said, the captured water levels surrounding the floating device can be represented on the xy-plane in the form of shape-shifting oval-shape curve. When the curve is deforming due to the wave propagation, the centroid of the shape will shift as well. The amplitudes, the frequencies, and the propagation directions can be analysed from the curve.

To determine the location of the wave source, direction detection is important. The prototype device is equipped with a processing unit to analyse the moving centroid (PCA) to determine the wave propagation direction. If multiple floating devices are used, the location of the wave source will be determined. The data collected from the floating device can be sent to the workstation wirelessly for further analysis.

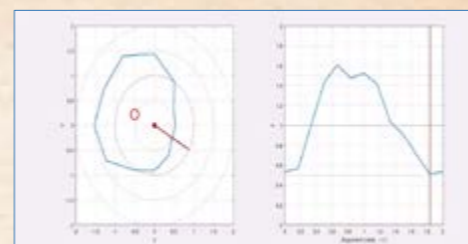
Since different activities can create different water waves on the water surface, the patented floating device can benefit for more applications and research studies, especially in intruder detection, drowning detection, unmanned surface vehicle, water quality monitoring, etc.

Patented in April 2020, the invention is geographically relevant to Malaysia or even any country in the world. Dr. Yeo elaborated, lakes in Malaysia, natural or artificial, have multiple functions and almost 90 percent of the nation's water supply comes from the lakes and reservoirs. "Lakes and reservoirs serve as the source of water for domestic, industrial and agriculture; hydroelectric power generation; flood mitigation, navigation, and recreation. They are also home to a variety of biological species and freshwater fish industry. According to Y.F. Huang et. al., there are 90 lakes and reservoirs in Malaysia, covering the total geographical area of 1,094.89 km² and the total water volume of 30,398.95 million m³," he said.

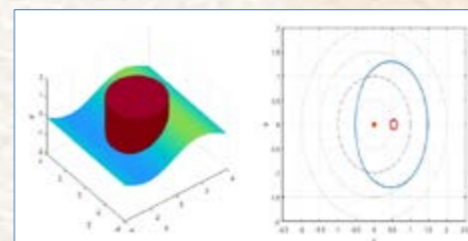
Currently, a company, HydroTrent Sdn Bhd, has expressed their interest in collaborating in this project. HYDRO-TRENT Group itself has more than two decades of experience in water and sewage management, irrigation and pumping schemes for the instrumentation, telemetry, SCADA and PLC Automation control system.



Prototype of Surround Sensing-Based Water Wave Detector for Buoy. The device is used for locating surface wave source in liquid body



Surface Water Wave Detection With Surround Water Level Sensors & Shape-Shifting Oval-Shaped Real-Time Graph Generation and Analysis



Simulation



Awards & Exhibitions

Awards and Recognition:

- Gold Award, Malaysia Technology Expo (MTE 2021) on 26 March 2021
- Gold Award, Pertandingan Rekaipita & Inovasi Nasional (PRIN 2021) on 9 September 2021,
- Gold Award, Research Innovation Commercialization and Entrepreneurship Showcase (RICES 2021) on 16 November 2021
- Special Award, Research Innovation Commercialization and Entrepreneurship Showcase (RICES 2021) on 16 November 2021



BIOGRAPHY

DR. TS. BOON-CHIN YEO

Dr. Ts. Boon-Chin Yeo obtained his PhD in Engineering from Multimedia University Malaysia, in 2017. The research topic involved background model, lane detection, traffic monitoring and control, fuzzy logic, and machine learning.

Dr. Yeo is a senior lecturer in the Faculty of Engineering and Technology, Multimedia University. Currently, he is also the Chairperson of the Centre for Advanced Robotics. He has been supervising numerous award-winning research projects related to robotics, condition monitoring, machine vision, and soft computing, especially for the applications in health care, automation, and robot positioning.



ASSOC. PROF. DR. LIM WAY SOONG

Assoc. Prof. Dr. Way-Soong Lim received his Ph.D. degree (Engineering) from Multimedia University of Malaysia, in 2007. He joined the university in 1999 as a lecturer of Faculty of Engineering & Technology. He served as a Deputy Dean from 2008 to 2020, and was later appointed as the Director of International Relations of the University.

His research interest covers areas in artificial intelligence, neural network, pattern recognition, road traffic monitoring, machining-tools condition monitoring and robotics navigation. Along his career, he has published numerous number of international journals and conference papers, book chapters and engineering text books. Dr. Lim also maintains strong collaboration with many industrial organizations and international universities.



ASSOC. PROF. DR. ROBERT JEYAKUMAR A/L PLAMEL NATHAN

Dr Robert Jeyakumar Nathan received Masters of Philosophy (Management) from Multimedia University and obtained his PhD in International Marketing from Universiti Malaysia Sabah. Dr Robert is a certified trainer of Pembangunan Sumber Manusia Berhad (PSMB) under the Malaysian Ministry of Human Resources and Certified Design Thinking Trainer from Stanford University Design School, Palo Alto.

Robert is currently leading the Academic Innovation and Product Intelligence (API) department, and is Deputy Director with the Centre for Lifelong Learning and Learning Innovation (LEARN). Dr Robert specializes in Manufacturing Statistics and Data Analysis and has conducted statistical, data mining and enterprise knowledge management systems trainings in Infineon plants in Asia, Europe and North America. His research interests include Marketing and Information Technology; Electronic Commerce; Leadership and Organizational Behaviour; Usability and Ergonomics; Online Social Community; and Occupational Safety & Health.

With the collaboration, he said, "Our project can be tested in real environments for our team to carry out data collection. With their knowledge and experience in water management fields, our project will certainly progress well and under the good supervision from experts."

In a nutshell, our university is very proud of this invention that gives huge positive impact in preserving the biodiversity as well as recognition to our university.

Prof. Mohammad Faizal Wins Two International Accolades

Prof. Dr. Mohammad Faizal Ahmad Fauzi, an academic staff from the Faculty of Engineering (FOE) cum the Head of the MMU-UKM-IMU Artificial Intelligence for Digital Pathology (AI4DP) Research Excellence Consortium was selected as one of the winners of the 2021 Islamic Development Bank (IsDB) – International Atomic Energy Agency (IAEA) joint Call for Innovation on Saving Women's Lives from Cancer. The announcement was made during the 2021 World Cancer Leaders' Summit, virtually held in Boston, the USA from 25th until 26th October 2021. The four winners were awarded USD\$50,000 cash each as well as certificates of recognition. Prof. Mohammad Faizal and his team at AI4DP will undertake projects on real-time grading of breast tumors, screening tools for cervical cancer, as well as cancer awareness applications using innovative artificial intelligence technologies.

AI4DP is a research consortium between MMU, Universiti Kebangsaan Malaysia (UKM) and International Medical University (IMU) established late last year, currently funded by the Ministry of Higher Education (MOHE) under the Konsortium Kecemerlangan Penyelidikan (KKP) scheme. Besides Prof. Mohammad Faizal, AI4DP members from MMU are Assoc. Prof. Dr. Fazly Salleh Abas (FET), Assoc. Prof. Dr. Wong Lai Kuan (FCI) and Dr. Wan Siti Halimatul Munirah Wan Ahmad (FOE). The consortium is expected to grow and become self-sustainable in the near future, and potentially be upgraded to a national Higher Institution Center of Excellence (HiCoE) as well as becoming the national reference point for AI research in digital pathology. This new grant from IsDB-IAEA will definitely help AI4DP towards these goals. You may view the full announcement at <http://bit.ly/3Cj8c5z>.

In addition, Prof. Mohammad Faizal also was honoured to be awarded the 2021 IEEE Region 10 (Asia Pacific) Outstanding Volunteer Award for his exemplary leadership of the IEEE Malaysia Section for the last 6



years (2015-2016 Vice-Chair, 2017-2018 Chair, 2019-2020 Past Chair/Advisor). Prof. Mohammad Faizal was one of the three recipients for this prestigious Region 10 award this year, the other winners being Isao Shirakawa of the Kansai Section and Karu P. Esselle of the New South Wales Section.

The R10 Outstanding Volunteer Award aims to recognise volunteers who have made outstanding contributions to a particular Region 10 Section. Among others, the candidate for the award needs to demonstrate administrative abilities and leadership skills, carry out new ideas, developments or projects which have significantly benefited the Section, and furthering the work as well as promoting the objectives of the IEEE and of Region 10. The award also serves to promote examples for others to follow, which in turn helps Sections to flourish.

Prof. Mohammad Faizal has been an active member and volunteer for IEEE at the regional, section, society, and technical chapter levels for almost 15 years. He currently sits in the Executive Committee of IEEE Region 10 (Asia Pacific), specifically chairing the R10 Newsletter Committee, while also serving as the advisor for IEEE Malaysia Section and IEEE Signal Processing Society (SPS) Malaysia Chapter. He has also been nominated for the position of Members-at-Large to the IEEE SPS Board of Governors.

Congratulations, Prof. Mohammad Faizal!

Ms. Qistina Ruslan Wins "Best Technical Paper Project" at MYDCF 2021

Ms. Qistina Ruslan from the Faculty of Creative Multimedia (FCM) won the "Best Technical Paper Project" at the Malaysia Digital Creative Festival (MYDCF) 2021, recently. With her paper entitled 'Materials and Techniques for the Construction of Entry-Level Stop Motion 3D Puppet Armatures', Ms. Qistina won the category for Academic Paper Presentation at the event.

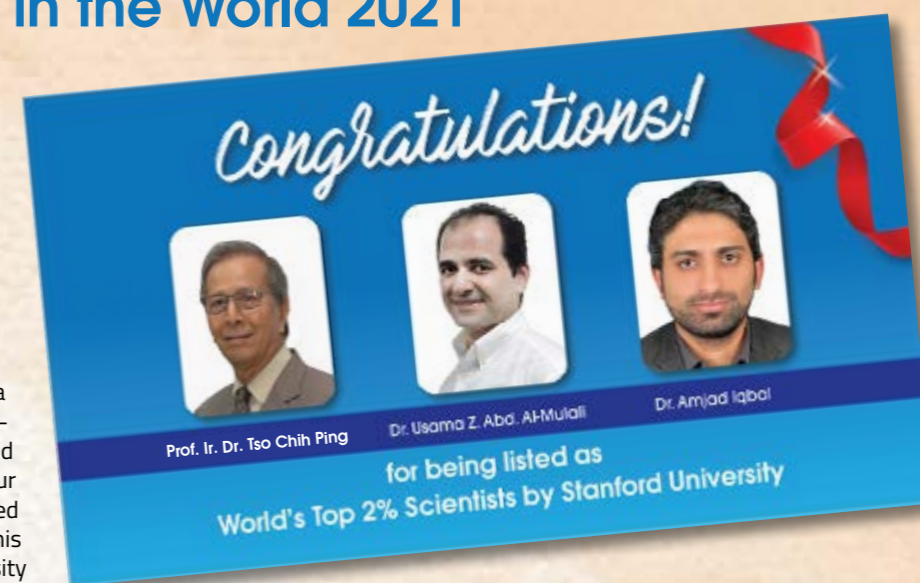
Hosted by the Malaysia Digital Economy Corporation (MDEC), the event was held throughout November 2021 in an effort to strengthen and catalyse the creative industry, elevate the interest of the public, and push forward the nation's digitalisation agenda. MyDCF 2021 featured several interesting activities namely career fair, SEA Games Awards, Kre8tif Awards, eSports Tournaments, Comic Art Festival, and many more.

Congratulations!

Three MMU Researchers among Top 2% Scientists in the World 2021

It is another remarkable achievement for the university when three MMU researchers namely Prof. Ir. Dr. Tsi Chih Ping from the Faculty of Engineering and Technology (FET), Dr. Usama Z. Abd. Al-Mulali from the Faculty of Business (FOB), and Dr. Amjad Iqbal, a Ph.D graduate from the Faculty of Engineering (FOE) for being listed among the Top 2% of scientists in the world.

Stanford University has recently released a list that represents the top 2% of the most-cited scientists in various disciplines around the world. It is a huge milestone for our academics and students to be acknowledged at the international level and surely, this recognition brings great pride to the university as well as the nation.



Mr. Tong Gee Kok Attains "Best Presenter Award" in the 6th International Conference on Soft Computing in Data Science 2021

Mr. Tong Gee Kok attained the "Best Presenter Award" in the 6th International Conference on Soft Computing in Data Science 2021 (SCDS 2021) on 3 November 2021. Mr. Tong, who is an academic from the Faculty of Computing and Informatics (FCI) presented his paper entitled 'Construction of Optimal Stock Market Portfolios Using Outlier Detection Algorithm' at the virtual conference.

The conference was hosted by the Institute for Big Analytics and Artificial Intelligence (IBDAI) Universiti Teknologi MARA (UiTM), with the collaboration of the Faculty of Computer and Mathematical Sciences (UiTM), Department of Statistics, Faculty of Science and Data Analytics, Institut Teknologi Sepuluh Nopember (ITS), Indonesia, and Research Nexus (UiTM). The conference had attracted participants from universities, government agencies, and industries.



“Real-Time Distortion Classification and Ranking in Laparoscopic Videos” Ease the Surgeons

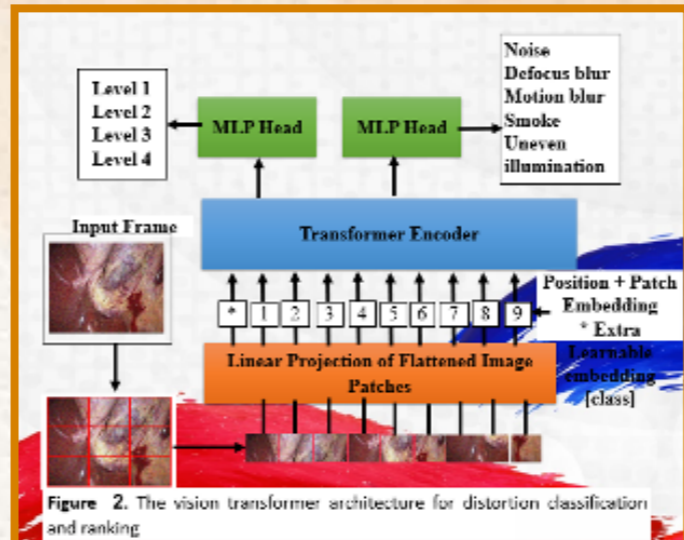
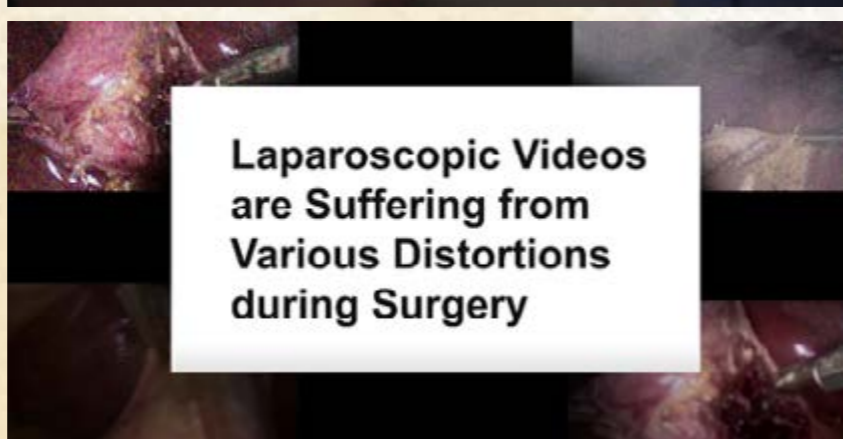
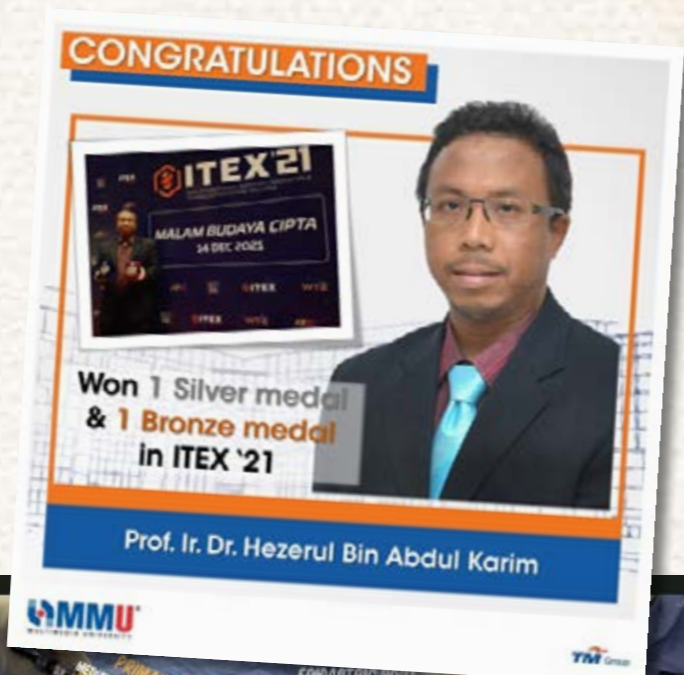
Video recording of surgical procedures is an important tool for surgical education, performance enhancement, and error analysis. Technology for video recording open surgery, however, currently is limited.

One of the surgical procedure types is laparoscopy. It allows a surgeon to access the inside of the abdomen (tummy) and pelvis without having to make large incisions in the skin. This procedure is also known as keyhole surgery or minimally invasive surgery, which also requires video recording.

Laparoscopic videos are obtained from tools used by surgeons to insert narrow tubes into the abdomen without making large incisions in the skin. The videos captured by a camera are prone to various distortions such as noise, smoke, uneven illumination, defocus blur, and motion blur which have an impact on visual quality.

Our professor at the Faculty of Engineering (FOE), Prof. Ir. Dr. Hezerul Abdul Karim has introduced his latest invention entitled, “Real-Time Distortion Classification and Ranking in Laparoscopic Videos” to help surgeons avoid errors during laparoscopic surgery.

“This project aims to enhance the performance of the existing solutions that have been proposed recently for distortion classification. A state-of-the-art deep learning model called vision transformer was used to extract informative features by transferring learning and representation from the domain of natural images to the domain of laparoscopic videos. Additionally, six parallel multilayer perceptron (MLP) classifiers were added and attached to vision transformer for distortion classification and ranking,” he added.



Automatic detection and identification of distortions are significant to enhance the quality of laparoscopic videos to avoid errors during surgery. Prof Hezerul said, the invention provides the quality video assessment in two stages: classification of distortions affecting the video frames to identify their types and ranking of distortions to estimate the intensity levels.

This invention has its uniqueness. A state-of-the-art deep learning model called vision transformer was used to extract informative features by transferring learning and representation from the domain of natural images to the domain of laparoscopic videos.

“It is a significant component in automatic video enhancement system. The proposed solution can help surgeons to avoid errors during laparoscopic surgery. The proposed solution can reduce the time required for troubleshooting to do changes to the technical equipment that cause distortions,” he explained.

With RM15,000 of investment, the invention has paved the way for great commercialisation potential where it can be used by developers of laparoscopic tools which will be utilised by surgeons.

Thus far, Prof Hezerul and his team members namely Nouar AIDahoul, Mhd Adel Momo, Myles Joshua Toledo Tan, Jamie Ledesma Fermin are pleased with the success and achievement of the invention as shown in Table 1.

| AWARD / ACHIEVEMENT | NAME OF EXHIBITION / CONFERENCE |
|----------------------------|--|
| Gold Award & Special Award | Research Innovation Commercialisation and Entrepreneurship Showcase (RICES), MMU Cyberjaya, 16 November 2021. |
| Silver Award | 32nd International Invention, Innovation & Technology Exhibition 2021 (ITEX21) |
| First prize | International Conference on Image Processing 2020 challenge (challenge winner) in Abu Dhabi. |
| International exposure | Collaboration with researchers from College of Engineering and Technology, University of St. La Salle, Bacolod 6100, Philippines and Department of Natural Sciences, University of St. La Salle, Bacolod 6100, Philippines. |
| Publication | 1) N. Aldahoul, H. A. Karim, M. J. T. Tan and J. L. Fermin. "Transfer Learning and Decision Fusion for Real Time Distortion Classification in Laparoscopic Videos," in IEEE Access, vol. 9, pp. 115006-115018, 2021, doi: 10.1109/ACCESS.2021.3105454. 2) AIDahoul N, Abdul Karim H, Ba Wazir AS et al. Spatio-temporal deep learning model for distortion classification in laparoscopic video [version 1; peer review: awaiting peer review]. F1000Research 2021, 10:1010 (https://doi.org/10.12688/f1000research.72980.1) |

Table 1: List of Achievements



RICES 2021 Showcases

Research Project & Social Innovation Project



Yang Berhormat Dato' Sri Dr. Adham Baba, the Minister of Science, Technology and Innovation graced the official launching of the Research Innovation Commercialisation and Entrepreneurship Showcase (RICES) 2021 on 16 November 2021. In his speech, he commended MMU's effort in organising this event as an avenue for innovators from various backgrounds to present their inventions, innovations, and research and development (R&D) commercialisation results. Prof. Dato' Dr. Mazliham Mohd Su'ud, the President of MMU also delivered his welcoming remarks to the audience during the event.

RICES is an annual event organised since 2017, and the event fosters visionary and innovative technologies to increase global competitiveness. With its theme, Humanising Innovations, the virtual event received more than 100 participants from local and international varsities including from the United States, India, Yemen, and others. The one-day event ended with a closing remark delivered by Prof. Ir. Dr. Hairul Azhar Abdul Rashid, Vice President of Research, Industrial Collaborations and Engagement (RICE) as well as the announcement of the winners for the showcase.

After the launching ceremony, YB Dato' Sri Adham witnessed an exchange document ceremony between MMU and National Technology & Innovation Sandbox (NTIS). MMU was represented by Prof. Dato' Dr Mazliham, while NTIS was represented by Ms. Dzuleira Abu Bakar, the Chief Executive Officer (CEO) of Malaysian Global Innovation and Creativity Centre (MAGIC). This collaboration will pave the way for the Sandbox-High Tech Education project.

MMU & NTIS Inked Collaboration Agreement

MMU sealed an agreement with MaGIC, the Lead Secretariat of the NTIS to pave the way for the High-Tech Education Sandbox. The collaboration between NTIS and MMU is to develop the first High-tech Education Sandbox that aims to boost the usage of local technology in the education sector. Through the agreement, the local solution providers will be given the opportunity to test and validate their solutions via the Sandbox platform.



The Collaboration Agreement (CA) is in line with the National Policy on Science, Technology and Innovation (DSTIN) 2021-2030 that aims to intensify local technology development and application efforts to transform the country from being technology users to technology developers.

Prof. Mazliham expressed his pleasure at the agreement, saying that the move is parallel with the university's goal of helping transform society through innovation and fits the current national and global situations very well.

"The collaboration will strengthen innovation and entrepreneurship among students where they can maximize technology's potential to transform the way of teaching and learning in the country," he added. "The steps will enhance students' interest in learning, improve collaboration among students and teachers, increase teachers' productivity and prepare students for the digital future."

Dzuleira said; "NTIS provides a platform to allow the use of advanced technologies in key sectors such as education that can bring about meaningful social and economic impact, especially

given the repercussions of the pandemic. At the same time, we provide an opportunity for local innovations' commercialisation to be fast-tracked through funding, regulatory facilitation and a live environment where these innovations can be stress tested before going to the market."

Through the NTIS, four National Sandbox test sites have been established across the country namely the Agriculture Sandbox in FELDA Mempaga, Pahang; Robotics and Automation Sandbox in Iskandar Drone and Robotics Zone; Sandbox Logistics for urban delivery drones in Cyberjaya and Area 57 is the first one-stop centre for Unmanned Aerial Vehicle (UAV and UAS) innovation at Technology Park Malaysia, Bukit Jalil.

She added: "With the launch of the High-Tech Education Sandbox in collaboration with MMU, we invite innovators to make use of the university's ready facilities as test beds to accelerate the commercialisation of their innovative ideas to impact. For this sandbox, we will be focusing on the solutions that can contribute to improving the effectiveness of teaching and learning pedagogies in hybrid-mode as well as preparing a highly competent and productive workforce with strong leadership and critical thinking hands-on technological skills"

Sandbox-High Tech Education project is a fast-tracking innovation programme that champions local innovation and creates a smoother pathway for Malaysian technology to get to market. This project creates a testbed for disruptive technologies related to educational activities that would enable Malaysia to solve some of the grand challenges that have been exacerbated by the pandemic.



Rombak Showcases Digital Artwork

During the same visit, YB Dato' Sri Adham took the opportunity to launch 'Rombak', a virtual showcase of digital artworks from artists and filmmakers organised by the Faculty of Creative Multimedia (FCM) and Faculty of Cinematic Arts (FCA). This virtual event was held from 16th November until 18th November 2021.

With the title, 'Symposium on Catalyst of Creative Practitioners', Rombak featured a virtual showcase of presenting digital artwork that celebrates the persistence of artistic creativity in reconfiguring and disrupting. The online exhibition divided into two categories, the Juried Exhibition and the Rombak Festival Showcase. Both exhibitions were participated by artists and filmmakers from all over the world whose works demonstrates their creative minds. Rombak displayed the artworks that response to the cycle of everydayness – as it challenged artists and filmmakers to see banalities as a catalyst, examine and create visual artworks and moving images that breaks any sorts of norm.

Also present at the launching ceremony were the Dean of FCA, Ts. Amir Shahlan Amiruddin and the Dean of FCM, Ts. Dr. Lim Kok Yoong.



MMU Team Clinches Gold Medal & Outstanding Innovation Award at MTE 2021



Multimedia University (MMU) won a gold medal at the Malaysia Technology Expo (MTE) 2021 SDG International Innovation Awards on 10 November 2021. A group of researchers from the Faculty of Management (FOM) namely Dr. Bahma Sivasubramaniam, Nor Aishah Muyop, Assoc. Prof. Dr. Mohammad Rahim Kamaluddin, Dr. Nurazlin Mohd Fauzi, Dr. Junainah Mahdee, Dr. Yuen Yee Yen, Dr. Martin Flora, Hamsatulazura Hamzah, Nursyamimi Houd, Thulasy Suppiah, Wan Nurdianah Rosmin, and Chiah Zhi Shen won the award with their project entitled 'The Need for the Establishment of an Anti-Cyberbullying Legislation for Malaysia'.

The team also clinched 'Outstanding Innovation Award at the same event. MTE 2021 was held from 25 until 29th October 2021 virtually, and 30 projects were selected as the gold winners for this Sustainable Development Goals International Innovation Awards.

Congratulations!

Dr. Mardeni Receives Outstanding Large Chapter Award from IEEE Malaysia Section

Assoc. Prof. Dr. Mardeni Roslee, Deputy Director of Research Management Centre (RMC) and also an academic from the Faculty of Engineering (FOE) received the Outstanding Large Chapter Award from the Institute of Electrical and Electronics Engineers (IEEE), Malaysia Section. The award was announced by Prof. Fawnizu Azmadi Hussin, IEEE Malaysia Section Past Chair during the 2020 IEEE Malaysia Awards Ceremony, recently.

The award recognised him for the highest excellence towards strengthening the implementation of the chapter performance as well as an outstanding contribution in furthering the Engineering professional association. Dr. Mardeni was involved as a Chairman of IEEE Communication Society and Vehicular Technology Society, Malaysia for 2019-2020. He had successfully led the chapter, which consisting of researchers from seven public varsities with another two executive committee members from FOE namely Mr. Khairil Anuar and Dr. Azwan Mahmud.



Congratulations, Dr. Mardeni!

“ Believe You Can and You’re Halfway There ”

- Theodore Roosevelt

An Interview with Taekwondo International Champion 2021, Chung You Jing

Chung You Jing, our student from the Faculty of Law (FOL) has made our university proud with his winning first prize at two international championships: 1st Teguh International Open Online Poomsae Championship 2021 and Taekwondo Kuala Lumpur International Online Championship in August 2021. You Jing, who is also a recipient of MMU Sports Scholarship, shared with us about his childhood, education, Taekwondo experience and accomplishments.

1. Can we have a brief background about yourself?

I am Chung You Jing, and I was born and raised in Penang. I received my secondary education in Chung Ling Butterworth Highschool and did my A-Levels before coming to MMU. I have a third-degree black belt in Taekwondo, and I compete in the sport of Poomsae (품새) on a national and an international level. My competitive journey started when I was selected for the SUKMA team in Form 4, so I have been juggling my studies and sport since then. Pursuing sports while studying is certainly not easy, especially coming from a middle-class household. For this reason, I am deeply grateful to my family, who unconditionally supports me in the pursuit of sports, both mentally and financially.

2. How is 2021 for you, so far?

Due to the pandemic, 2021 has had a drastic change from the competitive landscape of the past few years. I've had my fair share of physical competitions in 2020, but 2021 has been entirely different. This has been true for all the tournaments and championships in 2021, as all of them have transitioned to online competitions with video submissions. This year, what's

missing is the anxious wait in line to step onto the ring. Instead, it is replaced with the ecstatic wait in front of the television to watch the live stream. Aside from the two championships mentioned, I've also had the honour of representing Malaysia in the World Taekwondo Asia Poomsae Open Championship and successfully made it to the semi-finals.

3. How does a normal day look like for you as an MMU student and as an athlete?

On weekdays, I usually start my day with lecture classes and tutorials. It is then followed by training in the evening for roughly two hours. Monday, Wednesday and Friday would be Poomsae training, and physical training on Tuesday and Thursday. I usually use my nighttime for a mix of revision and browsing the web. For weekends, I would attend the weekly MMU Taekwondo Club classes on Saturday, and Sunday will be a rest day. Most of my classes and training are done at home in 2021, and because of that, I am looking forward to campus life in MMU.

4. What made you embark on Taekwondo and at what age did you discover your talent?

Since I was a child, I've had a smaller and weaker physique compared to my peers. My mother is also a Taekwondo black belt, so she brought me to her master's Taekwondo

class, where I started practising it to this day. My master is a traditionalist who emphasizes practising until we can't get it wrong, and there aren't many competitive sparring practises. Initially, I found the classes boring and monotonous due to the repetitive training of basic movements and kicks. Gradually, I found the meaning within these seemingly meaningless series of movements; Poomsae is the manifestation of the wisdom of those before us, passing down the practical applications of Taekwondo in self-defence situations. However, it wasn't really until I was selected for the SUKMA team when I found my passion in competitive Poomsae at age 16. I came to appreciate Poomsae as an art form, with the dynamics, flow, rhythm and expression of power while pursuing perfection in its performance.

5. Who are your favourite Taekwondo players? What do you admire about them?

My favourite Taekwondo players are Malaysia's former mixed pair Poomsae athletes – Sara Yap Khim Wen and Yong Jin Kun. They were the icon and symbol of Poomsae in Malaysia, representing our country and our sport on an international stage even at the expense of delaying their studies. Their achievements and efforts in promoting the sport of Poomsae in Malaysia have been impactful ones, which also inspired me to strive for the best in my sports journey. Their story embodies their tenacity and determination against hardships and recurring injuries, which never stopped them in their tracks. What made me respect Sara Yap and Jin Kun even more, is the humility they showed when I had the opportunity of learning new Poomsae from them a few years back in Bukit Jalil.

6. What are some major life lessons that you have learned from Taekwondo?

Taekwondo has impacted my life in all sorts of ways, especially teaching me the importance of perseverance. Your efforts will be rewarded one day, as long as you don't give up. Throughout the years of my competitive journey, I've faced countless failures and stumbling blocks in training and in competition. At the beginning of my sports journey, I lost most of my matches and even failed to go past some of the preliminary rounds. However, step by step, with trial and error, I have successfully found my way of training and my way of success.

A black belt is not the end; it is only the beginning. There are more than just kicks and punches in Taekwondo; Taekwondo is a lifelong journey of learning.

7. What do you do to prepare yourself for any Taekwondo tournaments? Did you take any classes?

As an athlete, the biggest problem I've faced is the nervousness before the tournament, be it the day before the tournament or the moments before stepping onto the stage. I learned a trick from my sports psychologist called the 'rectangular breathing method' to combat the sense of nervousness, and it has proven to be useful on all occasions.

I once made the mistake of consuming caffeine the night before the tournament, causing heart palpitations and leading to sleep deprivation. This one mistake cost me the whole competition. Because of this, I took the Sports Science course by the National Sports Institute, which taught me sports nutrition and sports psychology.

8. What other sports do you like watching or playing?

I enjoy all kinds of martial arts, particularly Karate. Kata is the Poomsae equivalent for Karate, and it is also thrilling and exhilarating to watch. As a Karate fan myself, I have also started to learn Karate on my own. Being open-minded to suggestions and new ideas is the key to success, and by observing and learning other forms of martial arts, I could improve my performance and gain further insights into Taekwondo.

9. What was one of your proudest moments as an athlete? What is your greatest achievement?

The proudest moment I've had as an athlete was when I won my first gold medal in an international championship in 2018, beating opponents from Indonesia, Thailand, Hong Kong and more. Prior to 2018, I haven't achieved much in Poomsae, but I have undergone arduous special training in that same year. Hoping to gauge my skills and abilities in the ring, I fought for the right to compete at an international event. However, both my Taekwondo master and coach opposed the idea of me participating in the event because they believed that I had no prospect of winning and it would be pointless to fight a losing battle. In spite of that, my parents supported my decision to compete on an international stage and even brought me to the venue. Against all odds, I emerged as the champion in my division and proved everybody else wrong.

"Success is not final; failure is not fatal: it is the courage to continue that counts."

- Winston Churchill.

10. Is there any upcoming tournament and what are your targets?

Currently, I have my eyes on the upcoming Sukan Institusi Pendidikan Tinggi (SUKIPT) in 2022, and I aim to at least snag a medal in the men's individual division.

11. Let's talk about your education. Why did you choose to further your studies in Law at MMU?

Several of my high school seniors joined MMU and had a lot of good things to say about MMU, from its excellent lecturers to its law library resources. Other than that, MMU has a good reputation for being reliable and innovative while fostering a competitive environment for its students.

12. What are the things that you like to do other than playing sports?

Other than sports, I also like debating. I had participated in the World Scholar's Cup with my teammates and emerged as Champion Team in the Hanoi Global Round. Consequently, this burning passion of mine had also led me to pursue a career as a lawyer.

13. What are your career goals?

I'm aiming to be a practising lawyer in the future. I have a particular interest in intellectual property law, and I'm hoping to venture into intellectual property law.

14. Can you tell us one thing that nobody knows about you?

As a Taekwondo athlete, some people have asked me whether I can speak Korean. Unfortunately, no, my Korean lexicon is only confined to Taekwondo terminology. However, I've learned some Japanese because of my enthusiasm in Japanese martial arts

such as Karate. From there, I discovered my favourite singer, Koji Tamaki, who was dubbed as the greatest vocalist in Japan.

15. Do you have any messages or advice to share with other students?

Do not fear failure but rather fear not trying. Don't stop fighting. You must keep going, even if you are the only one. My Poomsae journey has been a lonely one, without partners or teammates. Nevertheless, I pushed on and paved a path of my own. Coaches can only guide you in the early stages, it is up to you to navigate your way to success.

MMU is very supportive towards its students and is a great university that nurtures talents in various fields, including sports. No matter your dream or passion, pursue them and make them a reality.



Tan Li Ting Helps Malaysian Team to Win Bronze Medal

Tan Li Ting, our student from the Faculty of Management (FOM), who represented the Malaysian team with other team members namely Puteri Rifqah Fahada Azhar, Puteri Munajah Az-Zahraa Azhar from Universiti Teknologi MARA, and Nithyalakshmi Sivanesan from Universiti Putra Malaysia (UPM) secured the bronze medal at the 2021 Asian University Women Chess Championship starting from 3rd to 6th September 2021. Tan Li Ting was ranked 6th with 6.0 points, and she is the only Malaysian participant in the Top 8 awardees for the individual championship.

The championship was participated by varsity students from China, Indonesia, India, Iran, Kazakhstan, Saudi Arabia, Malaysia, Mongolia, Oman, Palestine, Singapore, Sri Lanka, Thailand, and United Arab Emirates. The Indian team won the gold medal, while the Iranian team won the silver medal for the Women Chess Championship.

Congratulations!

Photo credit: Majlis Sukan Universiti Malaysia



MMU Team Clinches Championship Title and Best Oralist Team at AMMC 2021

A team of four students from the Faculty of Law (FOL) was announced as the champion after defeating their counterparts from the University of Malaya (UM) at the ALSA Malaysia Mediation Competition (AMMC) 2021 on 5th September 2021. Aaron Abishai Andrew, Venkateswaran Murali, Sarish Muhundhan, and Dharshini Devi Kathiresan, our first-year students also clinched the Best Oralist Team at the competition. The team received monetary prizes of RM1,000, Malaysian Mediation Shield (Perpetual Award), Crystal Plaque & E-Certificates, and Law Books. There were 22 teams from different local varsities that partook in this competition.

The ALSA Malaysia Mediation Competition helps to promote, incite, and disseminate the use of mediation among younger generations of professionals to resolve disputes. It also allows students from various backgrounds and academic training to enhance their mediation skills. Apart from that, the competition also fosters the effective use of mediation and the exchange of ideas as well experiences between the participants.

Congratulations!

Photo credit: AMMC Facebook page



'PM Tepi' Secures 2nd Place at International Borneo Innovation, Exhibition & Competition (IBIEC) 2021

'PM Tepi' an invention by Mr. Vincent Chan, Ms. Cheah Wei Chee, Mr. Manivanan Sehgar, and Ms. Izyan A'qila Wan Ahmad Faizal won another award, recently. This time around, the invention secured 2nd place at the International Borneo Innovation, Exhibition & Competition (IBIEC) 2021. 'PM Tepi' is a digitalised platform with unique features that provides a unique solution for Pasar Malam vendors that are badly affected by COVID-19. People can buy items that are available at Pasar Malam virtually, and the vendors can also continue their businesses in the comfort of their own homes.

The IBIEC 2021, which was held virtually, aimed to recognise high-impact innovations and their commercial possibilities. It will also initiate future collaboration with institutions that are involved, thus creating a sharing platform among the innovators who participated in this competition. About 110 institutes from various categories took part namely Perbadanan Perpustakaan Awam Pulau Pinang, Universiti Malaysia Kelantan (UMK), Universiti Teknologi MARA (UiTM), Universiti Putra Malaysia (UPM), Universiti Malaya (UM), Nanyang Technological University, polytechnics, secondary schools, and many more. There were seven categories covering the entire spectrum from Construction & Material, Machine & Equipment, ICT & Multimedia to Social & Entrepreneurship.

For the record, on 17 June 2021, 'PM Tepi' won the gold award at the Malaysia Technology Expo (MTE) 2021: The 2nd COVID-19 International Innovation Awards.

Well done!



Champion of KPJUC Open Online Chess Tournament 2021 Makes MMU Proud

Gan Wei Tian, our student from the Faculty of Engineering and Technology (FET) won the KPJUC Open Online Chess Tournament 2021 on 1st August 2021. More than 100 participants competed under the Open category in the competition. Wei Tian, who is also an MMU Sports Scholarship holder, received a cash prize of RM250 together with an e-certificate.

Another two students namely Ng Shi Xuan from the Faculty of Information Science and Technology (FIST) and Kong Foo Yee from the Faculty of Law (FOL) secured the 11th and 39th places respectively at the same competition. Jointly organised by KPJ Healthcare University College and Akademi Catur Ariez Azman (ACCA), the competition received more than 600 participants with three categories namely U17, U12, and Open.

Congratulations, Wei Tian!



MMU Dota 2 Team Excels in Esports Competition

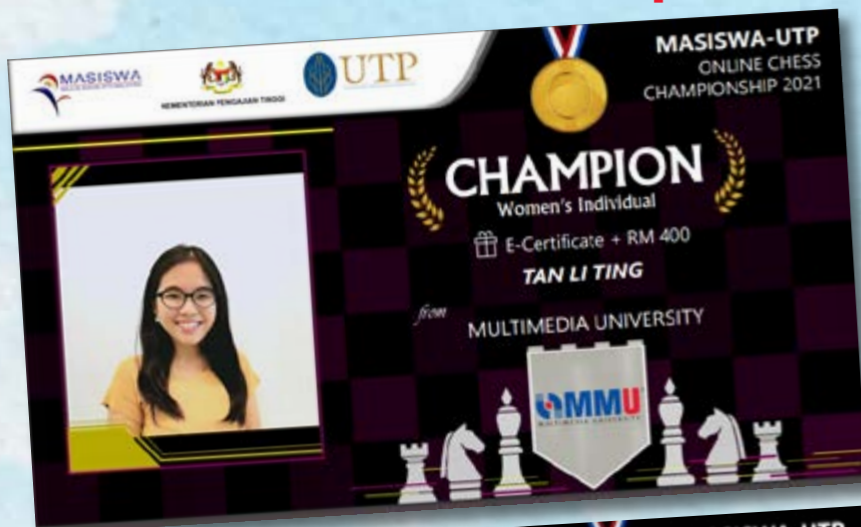
MMU Dota 2 team showed their excellent skills in ESports competition when the team was announced as winner in the University e-League Dota 2 Grand on 18 July 2021. The team members namely Jackie Foo from the Faculty of Information Science and Technology (FIST), Tan Kee Gen from the Faculty of Computing and Informatics (FCI), and Benjamin Koh from FIST walked away with a cash prize of RM 2,500 after defeating Sunway team in the finals. A total of 12 teams participated in the UeL 2021 in DOTA 2, and only 8 teams were shortlisted to compete in the playoff stage that was held for two days.

Organised by Esports Business Network (EBN) and Prime Sports International (PSI), the University e-League features 4 games titles: Dota 2, Mobile Legends: Bang Bang, League of Legends, and League of Legends: Wild Rift and Valorant. The UEL Vision is to harness a sense of pride among Malaysian students in representing their varsities while amplifying the values of healthy competition between higher learning institutions.

Congratulations MMU Dota 2 team!



MMU Wins Two Categories at MASISWA - UTP Online Chess Championship 2021



A group of students which represented MMU Melaka Team 1 won the Men's Team Category at the MASISWA-UTP Online Chess Championship 2021, recently.

MMU students also proved their excellent chess skills when they also won the individual category at the same competition. Tan Li Ting, our student from the Faculty of Management (FOM) emerged as the champion and Chua Jia Tien won the second runner-up under Individual Women's Category. Not only that, Kong Foo Yee also bagged first runner-up under Individual Male's Category.

Organised by MASISWA and Universiti Teknologi PETRONAS (UTP), a total of 12 athletes from MMU partook in this competition. The competition was held from 20th until 22nd August 2021, which was open for all private varsity students.

Congratulations and well done to all athletes!



MMU Student - Athletes Bag Second and Third Places in MASUM Open Chess Championship 2021

Four students participated in the Malaysian University Sports Council (MASUM) Open Chess Championship 2021 via an online platform, recently. The students partook in two categories; Open IPT and Women IPT, where WFM Tan Li Ting from the Faculty of Management secured third place in the first category. Other contestants, Gan Wei Tian from the Faculty of Engineering and Technology (FET) and Kong Foo Yee from the Faculty of Law (FOL) placed in 5th and 13th places, respectively.

For the Women IPT category, WCM Chua Jia Tien from FOL won second place in the Women IPT category. The competition received warm participation not only from local varsities players, but also from other countries namely India, Ireland, Japan, Sri Lanka, Philippines, Thailand, and Singapore.

Congratulations!



Kong Foo Yee Earns "Terbaik IPT" Award at National Sports Day Open Chess Championship 2021

Kong Foo Yee, our student from the Faculty of Law (FOL) was awarded with "Terbaik IPT" in the Open Category at the National Sports Day Open Chess Championship 2021. Foo Yee received a cash prize and e-certificate for this achievement.

Organised by Johor State Disabled Persons Chess Association (JSDPCA) with the support of Johor State Youth and Sports Department, the competition received many participations for three main categories, namely Open, U17, and U12. Foo Yee had also shown an excellent record of achievements in other chess competitions throughout the year.

Well done, Foo Yee!



UCTC Supports Mobile Vaccination Programme in Melaka



“ Action is the fundamental key to Success ”

- Pablo Picasso

Multimedia University (MMU) through its University Community Transformation Centre (UCTC) supported the Mobile Vaccination Programme, which was led by Mercy Malaysia, Melaka Chapter; and Kolej Universiti Islam Melaka (KUIM) and Melaka State Health Department. The programme which focuses on senior citizens was started in May 2021 and ended in July 2021. A group of students, staff, and alumni were assigned as non-medical volunteers along with the medics from KUIM.

The Mobile Vaccination assists the Melaka State Health Department to speed up the process for senior citizens to be vaccinated as they are more susceptible to the infection as the majority of them have comorbidities including diabetes mellitus, hypertension, heart disease, asthma and others. Hence, the senior citizens receive their vaccination without going to the vaccination centre (PPV). The initiative was also shared in the social media platform by Kerajaan Negeri Melaka, Melaka Health State Department, Melaka Hari Ini (MHI), and many more.

Well done!



Food Distribution to MMU Students by MAIM and MYDIN MITC Melaka



University Community Transformation Centre (UCTC) continues to assist in distributing food aid to students from Majlis Agama Islam Negeri Melaka (MAIM) and MYDIN MITC Melaka, recently, Mr. Rizalman, a representative of the Secretariat of MAIM handed out a total of 139 food packs consisting of biscuits, instant noodles, drinks, and other dry food to be given to Muslim students who are staying near to Melaka and Cyberjaya campus.

UCTC also received food packs and hygiene kits provided by MYDIN MITC Melaka for students who were staying in on and off-campus accommodations. Among the items received were cartons of mineral water and other beverages, biscuits, Milo products, instant noodles, and toothpaste. UCTC extends its gratitude to MAIM and MYDIN MITC Melaka for this assistance, which helps the community to face this health concern. UCTC also plans to establish an official food bank in an effort to help the community to get their daily necessities.



TM, MMU & YUM Lend a Helping Hand to PPR Beringin Community



On 7 November 2021, 'Program Khidmat Amal Bersama Timbalan Ketua Polis Negara' was held in Kuala Lumpur, where Telekom Malaysia (TM) and Yayasan Universiti Multimedia (YUM) sponsored 200 food baskets and 350 packs of 'bubur lambuk' and additional food packs were given to the PPR Beringin community.

Ms. Izlyn Amylia Ramly, Director of Yayasan TM together with Datuk Seri Haji Mazlan Lazim, Deputy Inspector- General of Police presented the food basket to the recipients. The food basket presentation was also witnessed by Prof. Dato' Dr. Mazliham Mohd Su'ud, the President of Multimedia University (MMU). Datuk Seri Haji Mazlan also spent his time visiting MMU on beamer that was also available at the event. Also attending the event were Dr. Mohd Rizal Abdul Razak, representing YUM; officers from Student Affairs Division (STAD) and Strategic Marketing, Admission and Recruitment (SMART) as well as students from Superhero MMU.



MMU Volunteers Out in Force to Assist Flood Victims



A group of volunteers from Sahabat Sukarelawan MMU Cyberjaya extended their helping hand to rescue and clean the houses of those who were affected in flood-hit areas including Salak Tinggi, Bukit Changgang, Dengkil, Puchong, and Shah Alam. On 24th December 2021, the cleaning activities in Klang and Banting were also joined by Prof. Dato' Dr. Mazliham Mohd Su'ud, the President of MMU; Prof. Ir Dr. Hairul Azhar Abdul Rashid, the Vice President of Research, Industrial Collaborations and Engagement (VP RICE), and Prof. Dr. Mohammad Yusoff Alias from the Faculty of Engineering (FOE) together with the volunteers. Meanwhile, the Sahabat Sukarelawan MMU Melaka also lent their helping hand to the flood victims in Lubok Cina, Melaka, and Jelebu, Negeri Sembilan. The volunteers from both campuses were first to offer immediate necessities to the flood victim with the assistance of the villager's handmade raft and the Malaysian army.



With the same spirit to contribute to the society, a total of 53 volunteers including staff, students, alumnus, and representatives from a non-governmental organization (NGO) embarked in the "Misi MMU Prihatin MENTAKAB" helped clean up houses of flood victims in Taman Mentakab Indah as well as some areas at Kolej Vokasional Puteri and Sekolah Menengah Jenis Kebangsaan (SMKJK) Hwa Lian on 31 December 2021. They also distributed some basic household items such as comforters, pillows, toiletries, and dry foods.

Thank you to all volunteers for contributing your effort as well as inspiring our community to come and help people in times of need.

*Credit photo: Sahabat Sukarelawan Facebook





YABhg. Tun Dato' Seri Zaki Tun Azmi, the Chancellor of MMU made the Declaration of Diploma and Degree Conferment for MMU Class of 2021 to signify the official graduation of more than 3,000 students in September 2021.

CHANCELLOR OF MULTIMEDIA UNIVERSITY
YABHG. TUN DATO' SERI ZAKI TUN AZMI



Four eminent alumni namely Dato' Dr. Nazri Khan, MMU Adjunct Professor and CEO of InterPacific Asset Management; Mr. Mohd Saiful Nang, Founder of Rarecation Travel Sdn Bhd; Ms. Manisha Jagan, Founder of Mtalent Asia & co-founder of Cult Creative and Ms. Nur Atiqah Sulaiman, Founder/CEO of Sugarscarf were invited as panellists in reminiscing their good old days at MMU Beat (Alumni Edition).



Prof. Dato' Dr. Mazliham Mohd Su'ud
Presiden & Ketua Pegawai Eksekutif MMU

Prof. Dato' Dr. Mazliham, the President of MMU appeared in MyDigital.KKMM together with two eminent alumni namely Mr. Ghaz Abu Bakar, Managing Director of the Media Hustler and Ms. Nur Atiqah Sulaiman (Eyqa Sulaiman), Founder of Sugarscarf on 27 October 2021.



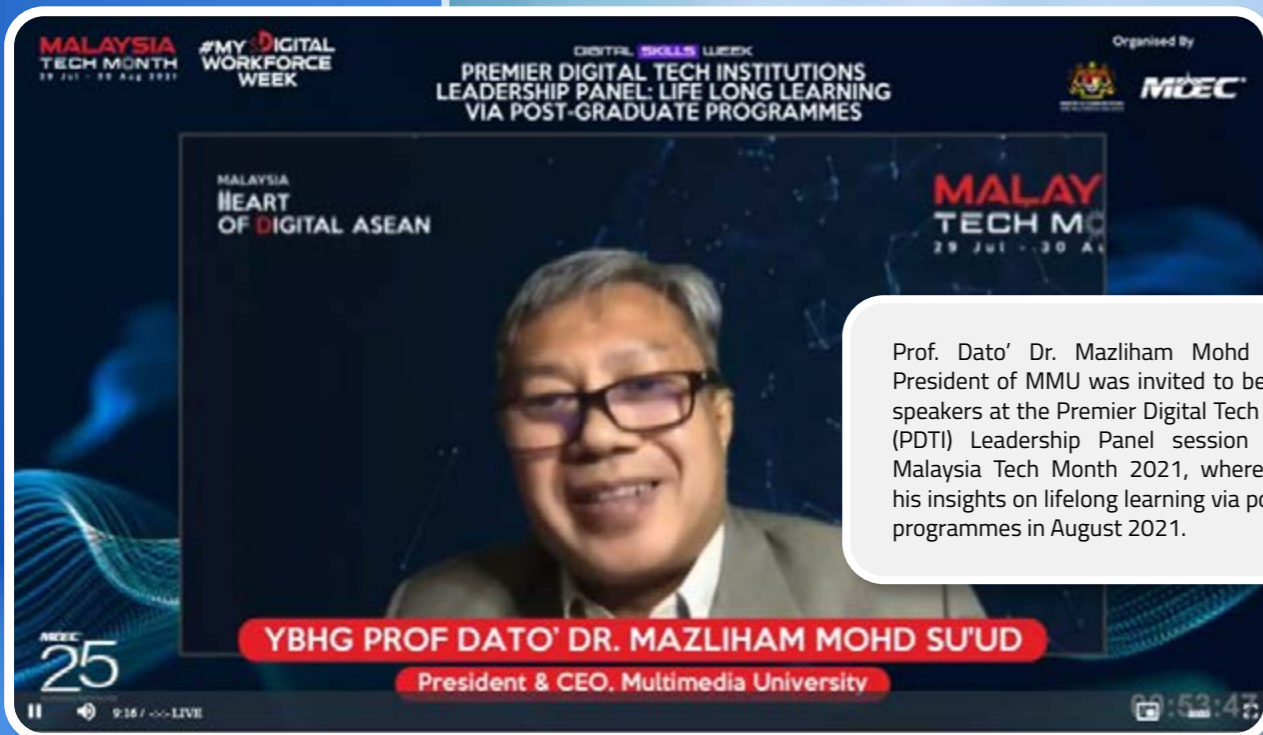
Ms. Liz Kamaruddin, the Adjunct Professor of Faculty of Applied Communication (FAC) conducted her inaugural adjunct professorial talk on an interesting topic titled "Communicating in Uncharted Waters" in October 2021.



MMU had successfully hosted the 10th Industry Forum on Harnessing Digitalisation and Technology in facing COVID-19 pandemic, which was virtually attended by more than 180 participants in September 2021.



Prof. Dato' Dr. Mazliham Mohd Su'ud, the President launched a new system for admission application which is more interactive, fast, and easy to use called 'SMARTsys' on 26 November 2021. Prof. Dr. Ho Chin Kuan, Vice President of Academic and International Relations; Ms. Nor Adni Ismail, Vice President of Finance and Business Ventures; Mr. Zambri Pawanchik, Vice President of Strategic Marketing, Admission and Recruitment (SMART); Assoc. Prof. Dr. Gerald Goh Guan Gan, Director of Strategy and Quality Assurance; Dr. Syed Sham Syed Ja'afar, General Manager of Support Services, and SMART team members also attended the event.



Prof. Dato' Dr. Mazliham Mohd Su'ud, the President of MMU was invited to be one of the speakers at the Premier Digital Tech Institutions (PDTI) Leadership Panel session during the Malaysia Tech Month 2021, where he shared his insights on lifelong learning via postgraduate programmes in August 2021.



President of MMU, Prof. Dato' Dr. Mazliham Mohd Su'ud was invited as one of the panellists to share on university's role in embracing the 5G technology at the 5G Tech Summit 2021 in November.

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SUSTAINABLE DEVELOPMENT GOALS

