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MAY
2024



International Industrial Revolution 4.0 Exposition

"INNOVATING IDEAS, TRANSPIRING DREAMS"

ABSTRACT BOOK

Strategic Partners:



Perpustakaan
Sultan Badlishah

Organized By:

**COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS,
UNIVERSITI TEKNOLOGI MARA, KEDAH BRANCH**

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IREx 2024

The successful inauguration of IR4.0 Exposition IREx 2019 has witnessed ground breaking initiatives, ideas, and innovations materialised into numerous practical devices today. Treading on the same triumph, the College of Computing, Informatics, and Mathematics, UiTM Kedah is thrilled to announce the continuation of said event, IREx 2024 with the theme: *Innovating Ideas, Transpiring Dreams*.

The IREx 2024 aspires to incorporate even more exciting new technologies including, but not limited to, Information & Communication Technology (ICT), Educational Technology & Innovation (ED), Operational Excellence (OE), Internet of Things (IoT), Process Improvement, Ideas & Design, Multimedia, and Electronics that will chart new milestones in human history. This will serve as an excellent platform for scientists and innovators alike to meet the like-minded individuals and showcase inspiring ideas and notable innovations.

PROGRAM SCHEDULE

International Industrial Revolution 4.0 Exposition (IREx 2024)
21ST May 2024 (Tuesday)
Dewan Perdana, UiTM Kedah Branch

TIME	EVENT
8.00 – 9.00 am	Registration & Booth Set Up
9.00 am – 12.00 pm	Exhibition & Judging Session
12.00 pm – 2.00 pm	Obedient Drone Session & Break
2.00 pm – 5.00 pm	Official Closing & Prize Giving Ceremony
5.00 pm	Program Ends

Official Closing Ceremony

International Industrial Revolution 4.0 Exposition (IREx 2024)

TIME	EVENT
2.00 pm	Arrival of Guests and Participants
2.30 pm	Arrival of VVIP
	National anthem - Negaraku And Wawasan Setia Warga
2.40 pm	UiTM
	Welcoming Speech
3.00 pm	Rector's Welcoming Speech
	Officiating Speech
3.10 pm	Gimmick & Montage presentation
3.30 pm	Prize Giving Ceremony
4.00 pm	Photography
5.00 pm	Program Ends

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CATEGORY C

SMART CLOTHES HANGER SYSTEM

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ABSTRACT - The Smart Clothes Hanger System is designed to solve the problem of weather changes impacting outdoor clothing drying times. Malaysia experiences year-round warm, muggy weather and frequently unpredictable since it is possible for rain to fall unexpectedly. Making it impossible for people to forecast what the actual weather will be like. This invention makes use of an ESP32 microcontroller, temperature sensor, rain sensor, LEDs, LCD and mobile application to deliver real-time weather updates. Circuit design and simulation are facilitated by the Tinkercad software and the system's smooth operation is guaranteed by C++ programming. Rain will trigger the red LED and buzzer, which show "It's raining" or "Hot Rain" on the LCD. A stepper motor then pulls clothing out of the way of the rain. When there are no rainy days, the stepper motor takes out clothes and the green LED will light-up. The LCD displays "Sunny Day," "Cloudy," or "It will rain" depending on the temperature. Other than that, people also can check the real time temperature at their residence through mobile application. This clever approach helps those who are forgetful and keeps clothes from getting wet. With its goals accomplished, the prototype shows how well integrated technology can handle unforeseen weather circumstances.

Keywords: weather, ESP32, temperature, blynk, real-time



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