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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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UITM Cawangan Kedah Channel

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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

AUTOMATIC STAMPING MACHINE USING ARDUINO

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ABSTRACT - Automation has gained an important place in industry, especially during the era of Industrial Revolution 3.0, which began around the mid-20th century. The main purpose of automated processes is to speed up production, reduce the use of manual labour and improve the accuracy of work. Recently, Industrial Revolution 4.0 has emerged and is developed rapidly which marks a paradigm shift in manufacturing, characterized by the convergence of cyber-physical systems, the Internet of Things (IoT) and artificial intelligence (AI). Even so, there are still work processes (usually in the administrative department) using manual methods in performing a task such as stamping. This task seems simple, but when the large volumes of documents are involved, the workload of employees will increase and make them fatigued. Therefore, based on this situation, a stamping machine has been designed to automate the manual process. Apart from that, the concept of IoT is also applied so that the stamping machine can be controlled remotely using a smartphone. As a result of testing with users, it was found that the proposed stamping machine can help ease their workload when the stamping process can be carried out automatically.

Keywords: Stamping machine, Automation, Arduino, Internet of things.



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