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TEKNOLOGI
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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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Copy Editors: Mohd Zhafri Mohd Zukhi
Shahida Farhan Zakaria
Norin Rahayu Shamsuddin
Nor Athirah Mohd Zin
Khairul Adilah Ahmad

Cover Design: Syahrini Shawalludin
Jasmin Ilyani Ahmad

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

BIODIVERSITYCANVAS: A DASHBOARD OF ANIMAL, PLANT, AND FUNGI TAXONOMY IN MALAYSIA

Muhammad Fauzan Bin Mohamad Fuad¹, 'Asrul 'Azeem Bin Fazil
Akashah², Muhammad Ammar Bin Ahmad Zaki³, Muhammad Haqimi
Solehin Bin Rosli⁴, Ts Dr Nurul Husna Bt Mahadzir⁵

^{1,2,3,4,5}*Universiti Teknologi MARA Sungai Petani*

⁵husnamahadzir@uitm.edu.my

ABSTRACT- BioDiversityCanvas highlights how genes, species, and habitats are connected, stressing the importance of Earth's diverse life, like plants and animals, for nature's balance and human well-being, despite being challenging to manage, especially concerning data in Malaysia. Researchers in Malaysia face obstacles due to limited access to detailed species location data, hindering their ability to conduct thorough studies. Additionally, the absence of comprehensive tools for analyzing species status complicates the assessment of population trends, impeding effective conservation efforts and management strategies. Addressing these challenges is crucial for promoting biodiversity research and conservation in Malaysia. In this regard, BioDiversityCanvas had been developed to connect disparate data sets, providing a visually engaging and harmonious interface, and enhancing the overall user experience. It provides valuable insights into species distribution, taxonomy breakdowns, and geographic patterns, aligning with Malaysia's biodiversity management goals. To date, the BioDiversityCanvas dashboard is one of the kinds that could visualize insight of the animal, plant, and fungi raw data, by taxonomy in terms of graphs, pie charts, maps, and word cloud. The significance of this research aligns with the Malaysia Biodiversity Department's objective, aiming to integrate biodiversity management and enhance initiatives for wildlife conservation in Malaysia.

Keywords: Biodiversity, Data visualization, Dashboard, Animal taxonomy, Plant taxonomy



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