ABSTRACT BOOK

CCA **2024**

"Unleashing Your Visual Creativity"

COLLEGE OF CREATIVE ARTS

UNIVERSITI TEKNOLOGI MARA
KEDAH BRANCH

ABSTRACT BOOK

Publisher

College of Creative Arts,
Universiti Teknologi MARA Kedah Branch,
08400 Merbok Kedah, Malaysia.

Perpustakaan Negara Malaysia
Cataloguing – in- Publication Data

MINDAREKA : Abstract Book.
E-ISSN :

Printed By :
Perpustakaan Sultan Badlishah,
Universiti Teknologi MARA Kedah Branch,
08400 Merbok, Kedah,Malaysia.

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Rector's Message

I am delighted to extend my heartfelt congratulations to the College of Creative Arts, UiTM Kedah Branch, for bringing MINDAREKA 2024 - Unleashing Your Visual Creativity to fruition. The triumphs of past MINDAREKA editions undoubtedly fueled the organization of this year's event, making MINDAREKA 2024 a reality.

MINDAREKA 2024 - Unleashing Your Visual Creativity stands as a testament to the dedication of students at the College of Creative Arts, UiTM Kedah Branch, providing them with a platform to showcase their final art projects. Beyond serving as a space for the exploration of fresh, innovative, and entrepreneurial concepts, this exhibition is poised to connect aspiring talents with potential clients and employers.

I extend my sincere gratitude to all participants whose enthusiasm and support have contributed to the success of MINDAREKA 2024 - Unleashing Your Visual Creativity. Their unwavering belief and commitment have truly brought this event to life, marking it as a resounding triumph!

"UiTM KEDAH SOARING FOR EXCELLENCE"

Prof. Dr. Roshima Haji Said
Rector
UiTM Kedah Branch

Head of College's Message

It fills me with immense joy to witness the extraordinary dedication of both the organizing team and students in ensuring the resounding success of this event. Our concern for the future of our students, particularly in navigating the complexities of the new normal, drives us to create a more vibrant and promising world for them. Thus, the significance of MINDAREKA 2024 - Unleashing Your Visual Creativity, orchestrated by our College of Creative Arts, UiTM Kedah Branch, cannot be overstated as it epitomizes our noble aspiration.

A heartfelt expression of gratitude is owed to our tireless organizing committee whose unwavering commitment, boundless energy, and meticulous attention to detail have been instrumental in realizing the objectives of this event. MINDAREKA 2024 - Unleashing Your Visual Creativity serves as a pivotal platform for all students, particularly those in their final year, to showcase their talents and skills. This platform not only fosters selfexpression but also lays the groundwork for students to navigate their professional paths in the future.

I extend my sincerest congratulations and appreciation to the organizing committee, faculty staff, students, and all stakeholders whose collective efforts have ensured the resounding success and cherished memories of this event. To the students, your dedication and hard work are commendable, and as you embark on this new chapter in life, I wish you the very best. May you embrace the opportunities that lie ahead with courage and determination. Best of luck to each of you.

Dr. Nurul 'Ayn Ahmad Sayuti
Head of College of Creative Arts,
UiTM Kedah Branch


MONDA
REKA

INDUSTRIAL DESIGN

Jalur Siaga

Design Advisor :
Mr. Zaidi bin Yusoff
Mr. Mohd Taufik bin Zulkefli

Abstract

The Jalur Siaga project introduces a novel robotic system designed to revolutionize search and rescue (SAR) operations in complex and disaster-stricken environments. Drawing inspiration from the remarkable agility and adaptability of spiders, this robot is engineered to navigate through challenging terrains with ease, providing an efficient and versatile solution for SAR missions. The robot features a biomimetic design that incorporates four legs, each equipped with specialized grippers and sensors, allowing it to climb vertical surfaces, traverse uneven ground, and maneuver through tight spaces with minimal disturbance to the surroundings.

Key to the Jalur Siaga's functionality is its advanced sensor suite, which includes thermal imaging, LIDAR, and acoustic sensors, enabling it to detect survivors in collapsed structures, dense smoke, or other visually obscured conditions. The robot's modular payload system allows for the integration of various tools and equipment, such as cameras, medical supplies, or communication devices, tailored to the specific needs of each mission. The Jalur Siaga is controlled via a semi-autonomous operation mode, combining operator oversight with autonomous navigation and decision-making capabilities, ensuring both precision and efficiency in its tasks. This design not only enhances the safety and effectiveness of SAR teams but also reduces the risk to human rescuers by entering hazardous environments that would otherwise be inaccessible or unsafe..


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