

CELEBRATING
COMMERCIALISATION
YEAR 2014

iiindex 2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

invention
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exposition 2014

INNOVATEUR
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2014

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UNIVERSITI TEKNOLOGI MARA
MALAYSIA

*Bridging
the valley of death :
advancing the
commercialisation
of research*

RESEARCH BOOK

iiindex2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

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FOREWORD

The Honourable Minister of Science, Technology and Innovation (MOSTI) has launched 2014 as Malaysia Commercialisation Year 2014 (MCY2014) with the theme Science Technology and Innovation (STI) for Wealth Creation. In line with this theme, Invention, Innovation, Design & Exposition 2014 (iidex2014) is an annual exposition organized by UiTM and is the ultimate platform to highlight and commercialise new inventions and innovations. Researchers and inventors will exhibit their products which cater to the needs and wants of the community and the country.

The iidex2014 creates a new dimension by fusing two competitive concepts, a competition among innovative products and a competition to invite Innovateur Wannabes to perform live pitching of their products to the audience. The iidex2014 focuses on comprehensive commercialization and creating opportunities for entrepreneurs to carry out R&D as well as to provide avenue to commercialise their products. Through expositions such as iidex2014, MOSTI hopes to inculcate the culture of commercialisation of new technology designed and created by Malaysians.

I wish to congratulate all the participants of the iidex2014 and this is the opportunity for all researchers to show their ideas and exhibits their products and creativity. Apart from showcasing their products, innovators will have the opportunity to provide a window to the industry for business matching during the exposition.

Tan Sri Dato' Sri Sallehuddin Mohamed
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PADDY DEFECT DETECTION INTELLIGENT KIT (PaDDI Kit)

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The aim of this project is to aid paddy farmers by giving them an early warning detection of paddy diseases so that the farmers can take the necessary countermeasures to protect their crops. By combining Artificial Neural Network algorithm with Fuzzy Logic Expert System we tend create a prototype for detecting the paddy diseases. The prototype will be mounted on the rear or front bumper of the tractor so that the farmers can do their daily routine while the PaDDI Kit is able to scan through the paddy field simultaneously. During the scanning process the PaDDI Kit will capture images of all the paddy plants in the area. If the software detects any disease, the images will be stored into the database and the images of the plant that doesn't have any disease will be deleted. At the end of the day the farmer can check which part of the plants were infected with diseases by checking it with the in-house software And the farmers then can take the necessary action to prevent it from becoming even worst.

GEOGRAPHICAL INFORMATION SYSTEM (GIS) DEVELOPMENT FOR LICENSING AND ENFORCEMENT DEPARTMENT (LED) OF MBSA (GIS-LED) USING SPATIAL DATA ANALYSIS

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This project aims to develop a Geographical Information System for Licensing and Enforcement Department (GIS-LED) of Majlis Bandaraya Shah Alam (MBSA). The functionality of this system is to help the department monitor the information license registration and renewal for enterprise signboard license, billboard license and bunting license in Shah Alam. The information about licenses is basically location based so the information system that is based on geographical aspects and location is needed. Geographical Information System (GIS) are software system that is used when capturing, storing, managing and displaying spatial data. The ability of GIS to capture information such as the location of offenders, on to a GIS has important implications for the rapid and timely accumulation of spatial data and the conduct of the analysis. In order to develop the system, some analysis must be made using the spatial data analysis, and the system must integrate with spatial database management system.