









27th - 30th APRIL 2014 **UNIVERSITI TEKNOLOGI MARA MALAYSIA** Bridging the valley of death: advancing the commercialisation of research

RESEARCH BOOK



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RESEARCH INNOVATION BUSINESS UNIT

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FOREWORD

he 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 commercial is at ion of new technology designedand 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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EASILY DEPLOYABLE, MULTI-FUNCTIONAL LOW FREQUENCY FS RADAR NETWORK

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A wireless network of FSR sensors has been designed for situational awareness in ground operations. Its primary objectives are the detection, parameter estimation and automatic target classification of various ground target (personnel, vehicles) entering or crossing its coverage area. The system is able to provide monitoring in remote or even inaccessible areas and does not require manual installation of sensors. The sensors could be spread into random positions directly on the ground from a remotely operated moving platform such as UAV. It detects and recognizes ground targets entering the network of coverage area.

PRESENT TIME TRACKER

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Present Time Tracker (PPT) is a system to record the arrival of staff online. The system provides many benefits to staff and the management. These systems provide space for staff to check in from any wifi -connected gadgets such as smart phones, tablets and other devices that can access the internet. The system facilitates staff to not have to move to the conventional punch card machine terminal which may delay them. Staff can also see the arrival time in order to plan activities effectively. In addition, the system provides many benefits to management where management can see real-time attendance record of staff members. With this the management can monitor the presence of staff. In addition, the system provides facilities for management to keep staff report each month to the coming of university records. The system also features all staff profile that can be updated by the staff. The system will also provide the latest news and information from the management to staff members.