

CELEBRATING  
COMMERCIALISATION  
YEAR 2014

# iiindex 2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

invention  
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& design  
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

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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  
Pro-Chancellor, Universiti Teknologi MARA

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## BIKE RECOMMENDER SYSTEM

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Recommender systems or recommendation systems are a subclass of information filtering system that seek to predict the 'rating' or 'preference' that user would give to an item. The method that has been applied for this project is a Prototype Model consisting of 1) First stage - initial requirement: where the researcher has collected all the data related to the system. The information may come from informal interview, observation, journals and books. 2) The second stage designing: where the researcher has designed the system based on customers requirement. 3) The third stage - is prototyping: where the researcher designed the prototype system based on the users need. 4) The fourth stage - evaluation: where the user will evaluate if the system meets their need. 5) The fifth stage: Comment review where the researcher will review the users comment in order to improve and update the system. Stage 2,3,4,5, will be done repeatedly to fulfilling the users requirement. 6) The sixth stage development: where the system will be developed. 7) The seventh stage Maintenance: where the system will be maintained by the administrator of the system. This project has three objectives which are 1) to analyse the data of the motorcycle that available in the market. 2) To design a Bike Recommender System and 3) to develop a working prototype of Bike Recommender System. This project is targeted at those who want to buy a motorcycle that is available in Malaysia market. Hence, the system has two types of search features. User can search the motorcycle based on the requirement for instance, budget. Another type of search is when the user can continue to obtain the brand they want. Under that brand, they can go through all design models.