



BAHAGIAN KEMAHIRAN DAN TEKNIKA

AL MARA

تکنیک ملایسہ
UNIVERSITI TEKNIKAL MALAYA



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Novelty/Inventiveness

Areas of Focus

- Profitability**
 - Strategically choosing crops and markets
 - Good agricultural practices for high-yield production
 - Higher income for farmers, especially in rural areas
- Efficiency**
 - Reduce access to information
 - Improving the quality of services and the speed of services delivery by the authorities
 - Reduce the crop/management cost
- Sustainability**
 - Enable agriculture start-ups
 - Managing social, financial, and economic aspects of farm management
 - Recording, accounting, and reporting
 - Profitability

Commercialization Potential

Using the developed system, the problem of food security can be monitored by the government if it is used extensively. This is because important information such as crop yield estimates can be provided through the information that farmers have provided through this system. This can have a great impact on the increase in food prices in the future.

This application can be seen to provide benefits in the development of information systems and some software tools developed for the use of farmers. It will be an important guide in providing more technology in agriculture that will scale the country's economy in the future.

Then developed applications will appeal to youths to venture into agriculture because they can learn more about farming techniques and management online via their smartphones. In addition, the use of social media that supports the activities of youth agribusiness will cause the industry to grow and become popular.

Industrial Collaboration



Jabatan Pertanian Melaka

Publication

- MyGAP Opportunity for Sustainable Agriculture Economy Development: Are Malaysian Smallholders Ready? International Conference on Religion, Society, Culture, and Community Empowerment (ICOMIN 2017), Universitas Muhammadiyah Yogyakarta (UMY), 20-21 July 2017.
4. LHWATAN PERTANIAN based on QR code application, PD 2017.
- MyGAP Opportunity for Sustainable Agriculture Economy Development, Jermal Pertanian (JPM) 2018



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Pioneer, Always Ahead

GC D AWARD
 Best site

UTeMEX





INTELLIGENTIAL WEATHER SENSING SYSTEM FOR OIL AND GAS EXPLORATION

U-TECH™ Product Description

Weather is a critical factor in the oil and gas industry. It affects the safety of operations, the efficiency of production, and the quality of the data collected. The U-TECH™ system is a cutting-edge solution that provides real-time weather data and analysis for oil and gas exploration. It is designed to be used in remote and hazardous environments, where traditional weather stations are often impractical. The system consists of a network of sensors and a central processing unit that can be deployed on a variety of platforms, including drones, balloons, and ground-based stations. The data collected is processed and analyzed using advanced algorithms to provide accurate and reliable weather information. This information is then used to optimize operations, reduce risks, and improve the overall efficiency of the oil and gas industry.

Key Features:

- Real-time data collection and analysis
- Remote and hazardous environment operation
- Advanced algorithms for accurate weather prediction
- Integration with existing systems and data sources

Applications:

- Oil and gas exploration and production
- Offshore operations and safety
- Weather forecasting and analysis
- Environmental monitoring and protection

Virtual SURVEYOR

Collect Data

Take it aerial data with any equipped drone or ground station

اونيوم سيولك
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ABDUL RAHMAN UTAM



Novelty/Inventiveness

- New delivery management
- Real-time delivery
- Tracking/visibility
- Efficient
- Real-time alert
- Improved customer service
- Reduce physical inventory

Industrial Collaboration

Developed by investor team

Novelty/Inventiveness

- Integrated online and mobile apps for B2B orders, delivery, vehicle tracking and GPS location tracking of
- Major store database
- Real customers to buy and order online with various of B2B solutions
- Delivery optimization
- Efficient payment
- Smart route
- Smart route based delivery and storage tracking time and delivery to verify buyers upon order
- Track delivery real-time visibility and time to reach destination to notify buyers once ready to deliver
- AI side scanner verification to record delivery date
- Cloud-based platform developed by orders, delivery status and location
- Dynamic information between users and nearest delivery centers

Publication

- Poster won Gold award at UTIMEX 2017
- Abstract was submitted and accepted at The 9th International Conference on Electronic Business in Dubai, United Arab Emirates

Industrial Collaboration

developed by investor team

Publication

Poster won Gold award at UTIMEX 2017

Abstract was submitted and accepted at The 9th International Conference on Electronic Business in Dubai, United Arab Emirates

MTUS

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EXHIBITION DIRECTORY

G-TED

UTIMEX 2017

FTEX 2018

اوتيمكس 2017

UNIVERSITI TEKNIKAL MALAYSIA MELAKA



SMART BREAST MILK INCUBATOR (SMILIN) *Unit 1, Stage 1*

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SMILIN
SMART BREAST MILK INCUBATOR





2H121

SMART BREAST MILK INCUBATOR
 (SMILIN) Model 1.0 (M)
 UNIVERSITI TEKNIKAL MALAYSIA MELAKA
 SMART BREAST MILK INCUBATOR



A desk area with a computer mouse, two speakers, a spiral notebook, and a pen.

A group of seven people (four women and three men) standing behind the booth, smiling and giving thumbs up. They are wearing lanyards with ID cards.

Informational posters on the wall behind the group, including one titled "SMART BREAST MILK INCUBATOR (SMILIN)".

Another informational poster on the wall to the right, featuring the UTM logo and text about the incubator.

Large watermark text: "UNIVERSITI TEKNIKAL MALAYSIA MELAKA"

SMART BUSINESS BULETIN (SMB)

Smart Business Buletin

Smart Business Buletin (SMB) is a monthly publication that provides information on the latest developments in the business world. It covers various aspects of business, including marketing, finance, and human resources. The publication is available in both print and digital formats.

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Control System

Real-time control system for...
 Real-time control system for...
 Real-time control system for...

Novelty Identification

- Classification for top-view geometric identification system
- The proposed offers higher accuracy against existing method, by focusing on the direct position
- The identification algorithm available faster than the conventional algorithm

Publication

1. S. A. Yusoff, M. S. Yusoff, N. K. M. Saad, Novelty Identification and Fuzzy Inference for Novel Items, "Jurnal Teknologi dan Inovasi: Identifikasi, Klasifikasi, Aplikasi", vol. 10, no. 1, pp. 1-10, 2018.

2. S. A. Yusoff, M. S. Yusoff, N. K. M. Saad, Novelty Identification Using Fuzzy Inference, "Jurnal Teknologi dan Inovasi: Identifikasi, Klasifikasi, Aplikasi", vol. 10, no. 1, pp. 1-10, 2018.

3. S. A. Yusoff, M. S. Yusoff, N. K. M. Saad, Novelty Identification Using Fuzzy Inference, "Jurnal Teknologi dan Inovasi: Identifikasi, Klasifikasi, Aplikasi", vol. 10, no. 1, pp. 1-10, 2018.

4. S. A. Yusoff, M. S. Yusoff, N. K. M. Saad, Novelty Identification Using Fuzzy Inference, "Jurnal Teknologi dan Inovasi: Identifikasi, Klasifikasi, Aplikasi", vol. 10, no. 1, pp. 1-10, 2018.

5. S. A. Yusoff, M. S. Yusoff, N. K. M. Saad, Novelty Identification Using Fuzzy Inference, "Jurnal Teknologi dan Inovasi: Identifikasi, Klasifikasi, Aplikasi", vol. 10, no. 1, pp. 1-10, 2018.

Commercialization Potential

1. Security system

2. Industrial Collaboration

3. Research Support

Jayus A Plesnel, Nurin Azzah



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وینور سیتی تیکنیکل ملایکا



No. IP: Patent Pending PI 2017700548
 Myname: Prof. Dr. N. M. S. Muzammil
 Contact Info: PROF. DR. N. M. S. MUHAMMAD MUHAMMAD
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The application needed to be downloaded from the Play Store. The system to be used. The Apps are build where it connected to the Bluetooth module and the microcontroller. The text-to-speech was released through this Apps on smartphone.

Novelty/Inventiveness

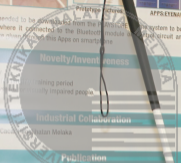
1. The smart cane
2. The cane with a training period
3. Form of cane for visually impaired people

Industrial Collaboration

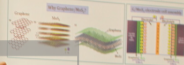
Perkumpulan Orang Cacat Panduan Melaka

Publication

Smart Phone Assisted Blind Stick, S.W.A.P., Yusliza, K. N. Khairi, Khairi, M. A. Mahasan, K.C. Lam, 5th U Tokushimai/TEM Academic Centre (TMAC) Symposium, 20th February 2016, Auditorium EPS, UTeM.



Electrodes with a novel structure (a-MoS₂ hybrid) electrical conductivity from graphene and high intrinsic ionic conductivity from MoS₂. The interaction between graphene and MoS₂ materials produced a synergistic effect and resulted in outstanding energy storage performance in terms of greatest capacitive property, good rate and cyclic performances.



Commercialization Potential

Equipped in every hospital in Malaysia and Malaysia Blind Society

Novelty/Inventiveness

1. The usage of slightly conductive and high surface area of graphene and high intrinsic ionic conductivity from MoS₂
2. Self-produced graphene from catalytic CVD
3. Doping technology of supercapacitor fabrication to overcome batteries in terms of durability, material safety, and power

Commercialization Potential

Hybrid electric vehicles
 Portable devices
 Energy storage systems

Industrial Collaboration

Magna Value Sdn. Bhd.
 Develon Sdn. Bhd.

Publication

Renewable Sust Energy Res 75 (2017) 644-656
 and Advances in Natural Sciences: Nanoscience and Nanotechnology, T1 Kuala Lumpur, Malaysia Technology Advanced
 17-817.

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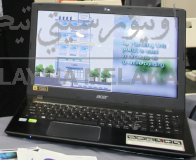
UTEM

نيومرسي تيحيك مليسيا ملاك
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ITEX
MURDUS-SALAH
MUTIA MELAKA
EDUCATION



تکنیکل ملیسی ملاک
UNIVERSITI TEKNIKAL MALAYSIA MELAKA



UNIVERSITI TUN HUSSEIN ONN MELAKA

A poster featuring a portrait of a man and several lines of text, likely providing details about the event or the university.

ITEM
اونيورسيتي تون حسين
UNIVERSITY TUN HUSSEIN ONN
FESTIVAL MALAYSIA MELAKA





UNIVERSITI TEKNIKAL MALAYSIA MELAKA

UTM
UNIVERSITI TEKNIKAL MALAYSIA MELAKA
Engineering & Technology
Exhibition Booth

Project Name:
Development of a
Smart and Sustainable
Self-Healing Concrete
for Urban Infrastructure

Project Lead:
Dr. Nur Hafidza, Associate Professor, Faculty of Engineering, UTM Melaka

Project Description:
This project aims to develop a self-healing concrete that can repair itself, reducing maintenance costs and extending the lifespan of infrastructure. The project is currently in the material development phase.

Contact:
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Phone: +606-76910000



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UNIVERSITY OF TECHNOLOGY
اوتومر سیتی تیکنیکل مالایسیا ملاکا

3D PRINTING

UTM



UTeM

وینوئر صیتی تیکنیکل مالایسیا ملکا
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ITEX'18

29TH INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION, MALAYSIA

AWARDS PRESENTATION
12 MAY



AWARD WINNING EXHIBITION



AWARDS
2013 Industry
Recognition



UNIVERSITI TEKNIKAL MALAYSIA MELAKA

IFIA

INTERNATIONAL FEDERATION OF INVENTORS ASSOCIATION

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ITEX

INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

AYIE

AWARDS IN INVENTION & TECHNOLOGY EXHIBITION

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ITEX

INTERNATIONAL INVENTION, INNOVATION & TECHNOLOGY EXHIBITION

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WYIE

WORLD YOUTH INVENTORS EXHIBITION

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

AYIE



