

COMMERCIALIZATION POTENTIAL
Rural Area, Residential Area, Agriform, Communication Tower

NOVELTY

Conventional inverter
to adapt with load

PUBLICATION

M. F. Sharif, M. Y. Lado, I. Raju, S. A. Ghani, "Three-phase Supply for Solar Application with MPPT Controller" *IEEE LAM 2014*, Melaka, 17-18 October 2014.
M. F. Lado, N. S. Mani, C. C. Kim, I. Raju, "Modeling and Analysis Performance of Three-Phase Cascaded Multilevel Inverter Using Voltage Switching Scheme" *The 2014 IEEE International Conference on Engineering & Technology (ICETech 2014)*, Melaka, 11 Mar 2014, pp. 523-528.
M. F. Sharif, M. Y. Lado, I. Raju, "Performance Investigation of UPWM Technique in Smart Power MOSFET Inverter" *The 2nd Thermal and Energy Conversion Symposium 2014 (TECS'14)*, Melaka, 12 Nov 2014, pp. 291-295.
M. F. Lado, M. S. A. Ghani, S. A. Ghani, M. S. M. Nordin, A. S. M. Noor, Z. G. M. Yusoff, "Performance Analysis of SVPWM using Fuzzy Logic and Newton Raphson Analysis" *International Conference on Engineering & Technology (ICETech 2014)* (ICETech 2014), The Double Secret Hotel & Convention Centre, Melaka, 11-12 May 2014.
M. F. Sharif, M. Y. Lado, I. Raju, S. A. Ghani, "Three-Phase Supply for Solar Application with MPPT Controller" *International Applied Mechanics and Materials*, vol. 675, pp. 529-534, Nov 2014.

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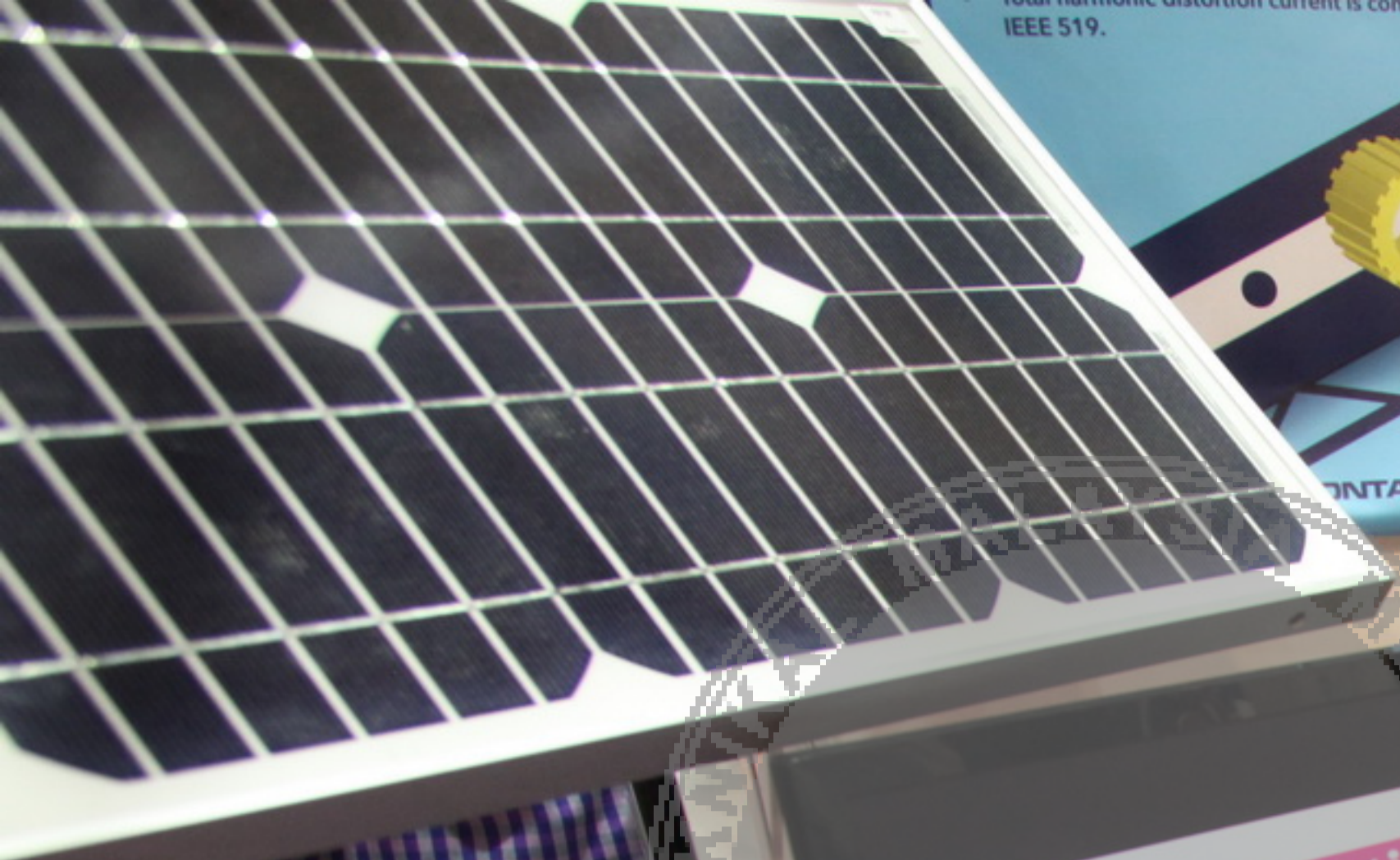


E-IV 3000
High Power Efficiency
Three-Phase Cascaded H-Bridge
Multilevel Inverter

Mohd Izzat Yusoff Lado,
Muhammad Ridwan Bin Md Naswan,
Dr. M. Saeed Alkhatib,
Dr. Azlan Bin Khairi,
Prof. Madyun Bin Gan Chen Kim,
Dr. Muhammad Ismail Bin Jamiluddin,
Ashraf Nordin Bin Azlan,
Nor Syamsiah Binti Ahmad Fauzi,
Nur Hafiqah Binti Abdul Halim

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total harmonic distortion current is complies with IEEE 519.

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- WA Halim, NA Rahim, M Azri, "Selective harmonic elimination for a single-phase 13-level TCHB based cascaded multilevel inverter using FPGA", Journal of Power Electronics 14 (3), 488-498.
- M Azri, NA Rahim, "Design analysis of low-pass passive filter in single-phase grid-connected transformerless inverter", Clean Energy and Technology (CET), 2011 IEEE First Conference on, 348-353.
- WA Halim, S Ganeson, M Azri, TNAT Azam, "Review of Multilevel Inverter Topologies and its Applications", Journal of Telecommunication, Electronic and Computer Engineering (JTEC).
- Lada. M. Y., Zolkifri. N. I., Nawawi. M. R. M., Khamis. A, Azri. M., Kim. G. C., "Development of Harmonics Reduction Using Improvement of Reverse Voltage Topology Single Phase Multilevel Inverter For Solar Application", Press In: International Journal of Renewable Energy Resources

Rating Re-Volt 8.0
Max. Power 6 kW
o/p Voltage 240V
Max. o/p Current 30 A
Input DC Voltage 60V / supply
RM 1160

Rating Re-Volt 8.0
Max. Power 6 kW
o/p Voltage 240V
Max. o/p Current 30 A
Input DC Voltage 60V / supply
RM 1160

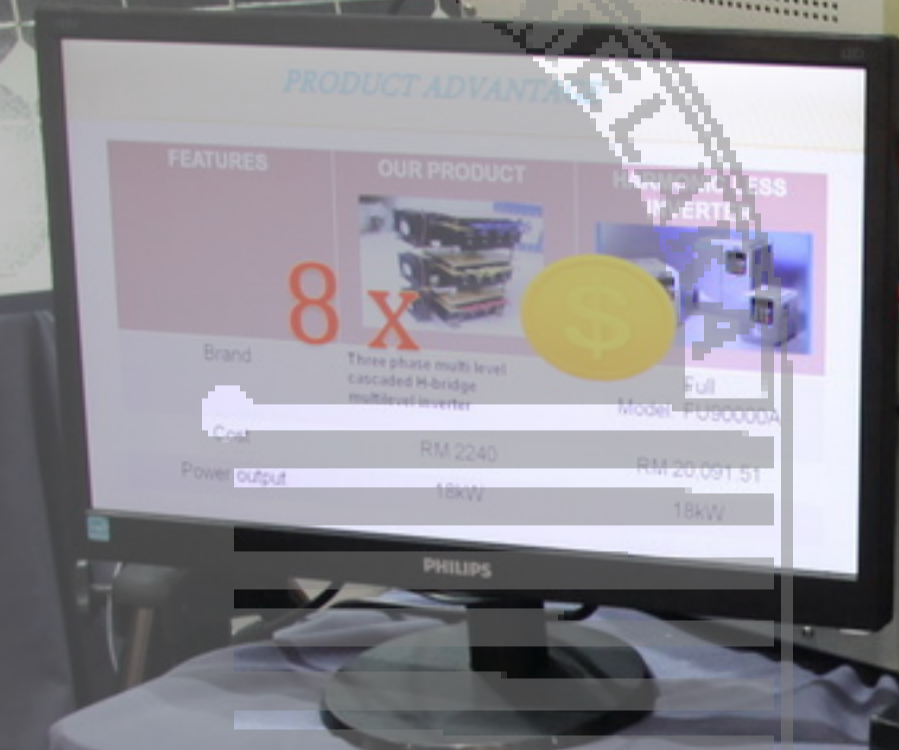
UTeM
RE-VOLT 8.0

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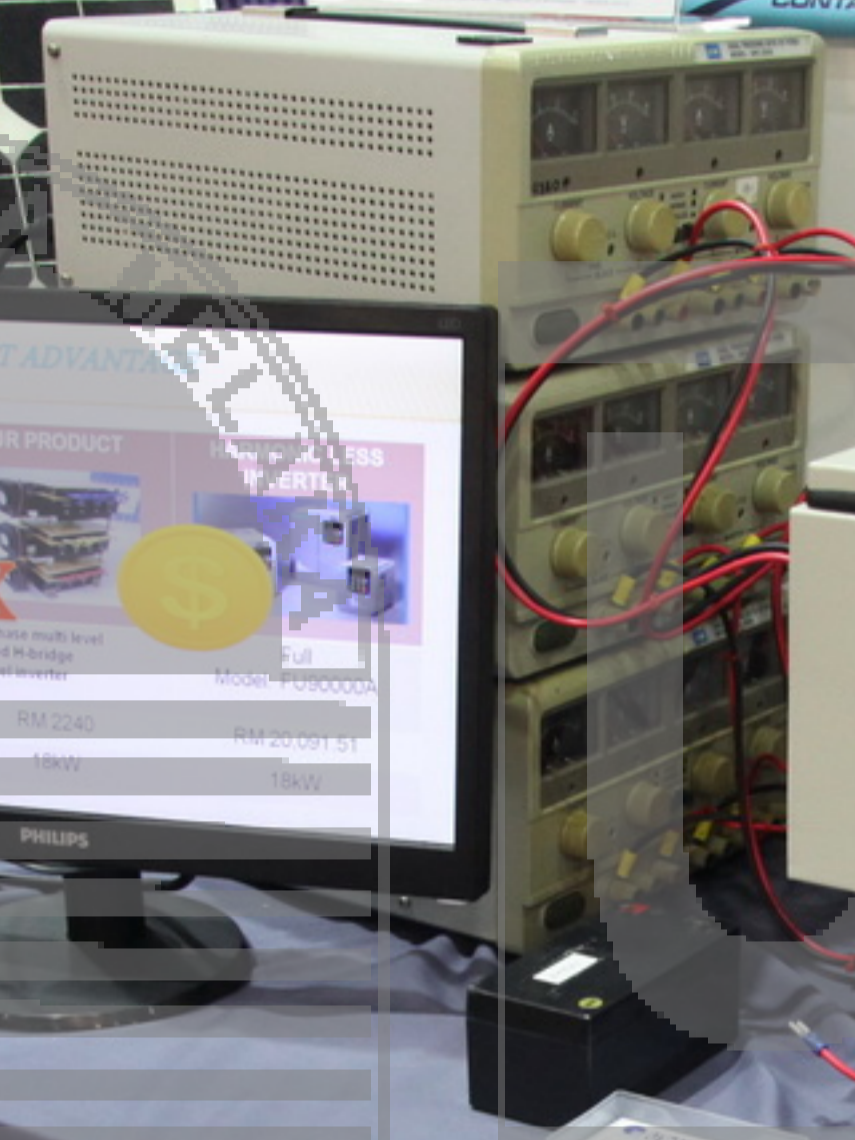


اویونر سیتی

Rating Re-Volt 8.0
Max. Power 6 kW
Max. Voltage 240V
Max. Output Current 30 A
Input DC Voltage 60V / supply



Brand	OUR PRODUCT	Model
Three phase multi level cascaded H-bridge multilevel inverter	Full	70500000
Price	RM 2240	RM 20,091.51
Power Output	18kW	18kW



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UTeM Commercialisation Centre (UCC), UTeM Hang Tuah Jaya, 76100 Durian Tunggal, Melaka

Performance of Three Phase Seven Level Cascaded Multilevel Inverter with Unipolar Switching Schemes, The 2nd Power and Energy Conversion Symposium 2014 (PECS2014), Melaka, 12 Mei 2014, pp 303-308.

M. F. Shariff, M. Y. Lada, I. Bugis, "Performance Investigation of SPWM Technique on Smart Power Module Inverter", The 2nd Power and Energy Conversion Symposium 2014 (PECS2014), Melaka, 12 Mei 2014, pp 281-286.

M. Y. Lada, M. S. A. Khair, S. A. Ghani, M. R. M. Nawawi, A. S. M. Nor, J. G. M. Yuen, "Performance Analysis of SHE-PWM using Fourier Series and Newton-Raphson Analysis", International Conference on Mathematics, Engineering & Industrial Application 2014 (ICoMESA2014), The Gurney Resort Hotel & Residences Penang, 28th - 30th May 2014.

M. F. bin Shariff, M. Y. Lada, I. Bugis, S. bin Ab Ghani, "Three-Phase Supply for Solar Application with MPPT Controller", Academic Journal: Applied Mechanics and Materials, Vol. 699, pp. 589-594, Nov. 2015

M. Y. Lada, N. I. Zubir, J. A. M. Gani, M. R. M. Nawawi, G. C. Kim, "Reduction of



اوديو من سيني تيكنيكل مليسيا ملاك

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NOVELTY IMPROVEMENT

Integration of both mechanism of extrusion and mechanical pressing during the 3D printing process. The innovation allows the deposited material to be compressed along the process of the printing. Integrated and automated pressing system. The innovation enables the pressing mechanism operates automatically during the printing process.

Available for any types of open ended printer with simple...

PUBLICATION

Conference Paper
Majid, S. N. A., Alkahari, M. R., Rami, F. R., Maidin, S., Tan, C. F., Sudin, M. N., Effect of Mechanical Pressing On 3D Printed Parts During FDM Processing. International Conference on Advanced Processes and Systems in Manufacturing (APSIM 2016), pp. 62.

Majid, S. N. A., Alkahari, M. R., Rami, F. R., Sudin, M. N., Tan, C. F., Jemat, D., 2016. Acrylonitrile-butadiene-styrene Under Influence Of Different Processing Parameter. IRCIE International Research Conference and Innovation Exhibition, pp. 141.

Journal

S. N. A. Majid, M. R. Alkahari, F. R. Rami, S. Maidin, C. F. Tan, M. N. Sudin, Influence of Integrated Pressing during Fused Filament Fabrication on Tensile Strength and Porosity, *Journal of Mechanical Engineering*, Accepted.

S. N. A. Majid, M. R. Alkahari, F. R. Rami, M. N. Sudin, Mechanical Behavior of a New Hybrid 3D Printer, *Journal of Mechanical Engineering and Sciences*, Submitted.

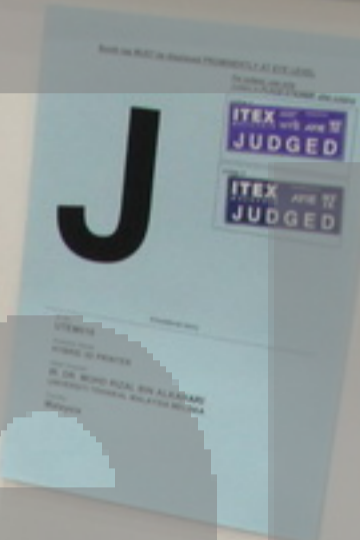
Patent

M. R. Alkahari, S. N. A. Majid, F. R. Rami, S. Maidin, S. Subramonian, M. N. Sudin, C. F. Tan, "A Three Dimensional Printer and A Method of Printing in Three Dimensions" Patent Application No. PI 2016704860, filed Dec 29, 2016.

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COMMERCIALIZATION POTENTIAL

A wide range of market is available for wireless condition monitoring in various applications: medical transportation and aerospace.

- First initiative in Malaysia in developing lead-free piezoelectric-based energy harvester dedicated for miniature devices and wireless sensors.
- Applied GREEN TECHNOLOGY: Convert unused/wasted mechanical vibration from nature to useful electrical energy
- Eliminate the disposal issues of the conventional battery
- New means of generating energy and energy efficiency
- Cost saving for manufacturing, cable and wired system

PUBLICATION

Abdul M.M., Yusoff, A.S.M., Ashri, U.A.A., Azmy, M.A. & Ismail, S. (2014) *Microelectronics*, 170, 10-14.

Abdul M.M., Yusoff, A.S.M., Ashri, U.A.A., Azmy, M.A., & Muziq, I. (2014) *Journal of Construction*, 10(1), 50-57.

Hadi, M.A.M., Yusoff, A.S.M., Ashri, U.A.A.H., Azmy, M.A., & George, I. (2014) *Materials Research*, 17(5), 1411-1422.

Nord Azmy Azmy, Umar Al Amzar Ashri, Mohd Abdul Mohd Hatta, Mohd Asyraf Azmy Mohd Haziq, Mohd Yusoff, & Mohd Yusoff, Proceedings of Mechanical Engineering Research Day 2013, pp. 7-12, March 2013.

Hadi, M.A.M., Yusoff, A.S.M., & Ashri, U.A.A. (2013) *Construction*, 10(1), 50-57.

M.M. Yusoff, A.S.M., Ashri, U.A.A., & Azmy, M.A. (2013) *Journal of Mechanical Engineering Research Day 2013*, pp. 7-12, March 2013.

Mohd Abdul Mohd Hatta, Mohd Yusoff, & Ashri, Umar Al Amzar, High Intensity, High Temperature, Mohd Yusoff, Proceedings of International Conference on Computer & Communication Engineering, pp. 1-5, 2014.

Mohd Abdul Mohd Hatta, Mohd Yusoff, & Ashri, Umar Al Amzar, High Intensity, High Temperature, Mohd Yusoff, Proceedings of International Conference on Computer & Communication Engineering, pp. 1-5, 2014.

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ITEX 17 MALAYSIA

PUBLICATION

Journal of Mechanical Engineering Research Day 2013, pp. 7-12, March 2013.

Journal of Mechanical Engineering Research Day 2013, pp. 7-12, March 2013.

Journal of Mechanical Engineering Research Day 2013, pp. 7-12, March 2013.

ITEX 17 MALAYSIA

J

Journal of Mechanical Engineering Research Day 2013, pp. 7-12, March 2013.

اونیورسیتی تکنیکل ملیسیا ملاکا

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FABRICATION OF KNN THIN FILMS

LEAD-FREE PIEZOELECTRIC ENERGY HARVESTER

ITEX 17 MALAYSIA



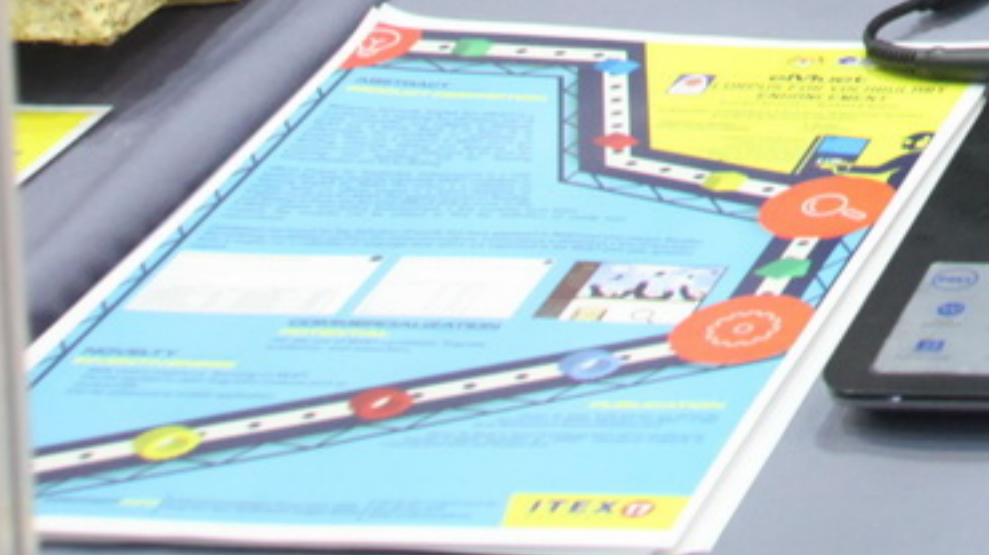
Copyright and Publication

Journal

Oman, M., Razali, S., Avash, N and Razak, A.N.H Identifying The Potential of Mobile Application for eMUET. Accepted for Publication for International Journal on e-Learning and Higher Education Vol 6, January 2017

Copyright and Publication

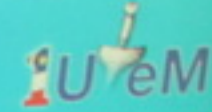
Oman, M., Razali, S., Avash, N and Razak, A.N.H Identifying The Potential of Mobile Application for eMUET. Accepted for Publication for International Journal on e-Learning and Higher Education Vol 6, January 2017



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User Feedback



GRADUATION BAND REQUIREMENT

The candidates are to choose band level need for them to graduate.

Choose band for you to graduate?



Band 1
Band 2
Band 3
Band 4
Band 5
Band 6
Graduate

MOST DIFFICULT MUST PAPER TO SCORE

The candidates are to state the most difficult MUST paper to score.

Which paper is the most difficult to score?

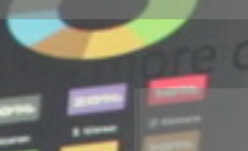


Accounting
Economics
Marketing
Learning

NUMBERS OF REPEAT TEST TAKEN

The candidates are to state the amount of repeat test they took to pass the most band level.

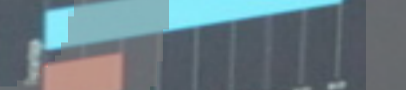
How many times you repeat MUST?



0 times
1 times
2 times
3 times
4 times
5 times

USER ANALYSIS ON SYSTEM

Do you think it is easier if there is a system that can help you with MUST especially learning?



Yes
No

Do you think the system is friendly user?



Yes
No

Do you think this system is useful?



Yes
No

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N

2M179

UNIVERSITI MALAYSIA

Spoke

N

UNIVERSITI MALAYSIA TERENGANU

iswa

PELITA

Pelajar

ITEX 16

NOVITY

J-Cust
ONLINE SHOPPING

ITEX 16

ITEX 16

ITEX 16



UTeM

دور سیتی ٹیکنیکل

UTeM
Spent Tea Leaf - Natural Rubber Composites as
Sound Absorbing Material for Hc
Application
Co-Researchers
Prof. Dr. Azma
Prof. Dr. Mohd

SN7-GJG76

SPENT TEA LEAF COMPOSITE

SPENT TEA LEAF COMPOSITE

SPENT TEA LEAF COMPOSITE

SPENT TEA LEAF COMPOSITE

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UNIVERSITI MALAYSIA SEREMBANG

UNIVERSITI MALAYSIA SEREMBANG

Readability level according to Year in Primary School and Form in Secondary School

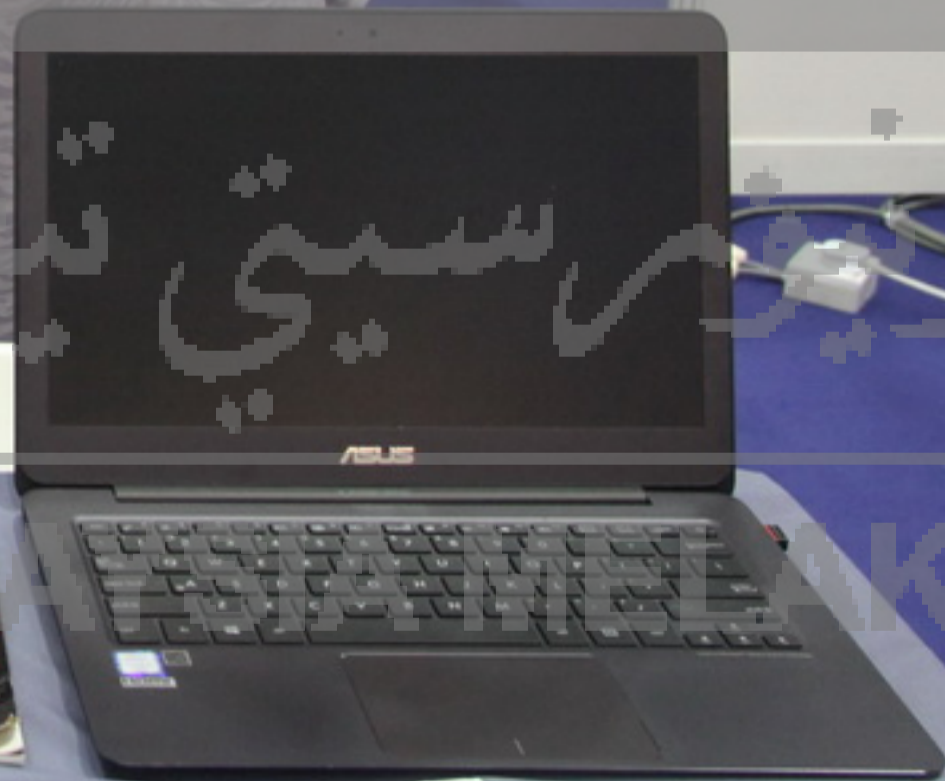
Readability Level	Year/Forms	Age	Year Subsector
RED	Year 1	6-7 years	1
YELLOW	Year 2	7-8 years	2
	Year 3	8-9 years	3
GREEN	Year 4	9-10 years	4
	Year 5	10-11 years	5
BLUE	Year 6	11-12 years	6
	Year 7	12-13 years	7
PURPLE	Year 8	13-14 years	8
	Year 9	14-15 years	9
BROWN	Year 10	15-16 years	10
	Year 11	16-17 years	11
BLACK	Year 12	17-18 years	12
	Form 1	17-18 years	13

Having difficulties in finding suitable reading materials?
READABILITY
Having difficulties in reading especially Dyslexic people?



PINTAS
"Today's Asset, Tomorrow's Value"
IP PROTECTION

DO YOU KNOW YOU MIGHT HAVE DYSLEXIA AS AN ADULT?
TOP 6 FRUSTRATIONS



Sp ke.

$a + 2b + c(d + e)$

NOVELTY INVENTIVENESS

COMMERCIALIZATION

ITEX

Sp ke.

NOVELTY INVENTIVENESS

COMMERCIALIZATION

ITEX

UNIVERSITI MALAYSIA SEREMBANG

Readability level according to Year in Primary School and Form in Secondary School

Readability level	Year/Form	Age	Test Indicator
1	Year 1	7 years old	RED
2	Year 2	8 years old	
3	Year 3	9 years old	
4	Year 4	10 years old	YELLOW
5	Year 5	11 years old	
6	Year 6	12 years old	
7	Form 1	13 years old	GREEN
8	Form 2	14 years old	
9	Form 3	15 years old	
10	Form 4	16 years old	
11	Form 5	17 years old	
12 and above	Adults	18 years old and above	



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Sp ke.

$y_1 = a + b_1 + c(d_1 + k_1)$
The sample to find case study
with a number of words in sentences
is the number of sentences in 100 words.
The number of sentences in 100 words
is 100.
If possible, the number of words in a sentence
is the number of words in a sentence.
The number of words in a sentence is 100.
The number of words in a sentence is 100.
The number of words in a sentence is 100.

NOVELTY
INVENTIVENESS
COMMERCIALIZATION
PUBLICATION

CONTACT: [illegible]

iswa
PELITA TEKNIKAL

2M179

UNIVERSITI MALAYSIA

NOVELTY
INVENTIVENESS
COMMERCIALIZATION
PUBLICATION

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SD
Your battery is running low 100%
[illegible]
FTMK [illegible] cit
No copyright: LY2017001467

SD
WEB-BASED DYNAMIC SIMILARITY DISTANCE TOOL
(WebSDT)
FTMK [illegible] cit
No copyright: LY2017001467

Trust
(http://trustscrawler.h
Assoc Pro
Dr Safiah Sidek, Mo
Mun
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TrustCrawler

(http://trustcrawler.herokuapp.com/users/sign_in)

Assoc Prof Dr forza

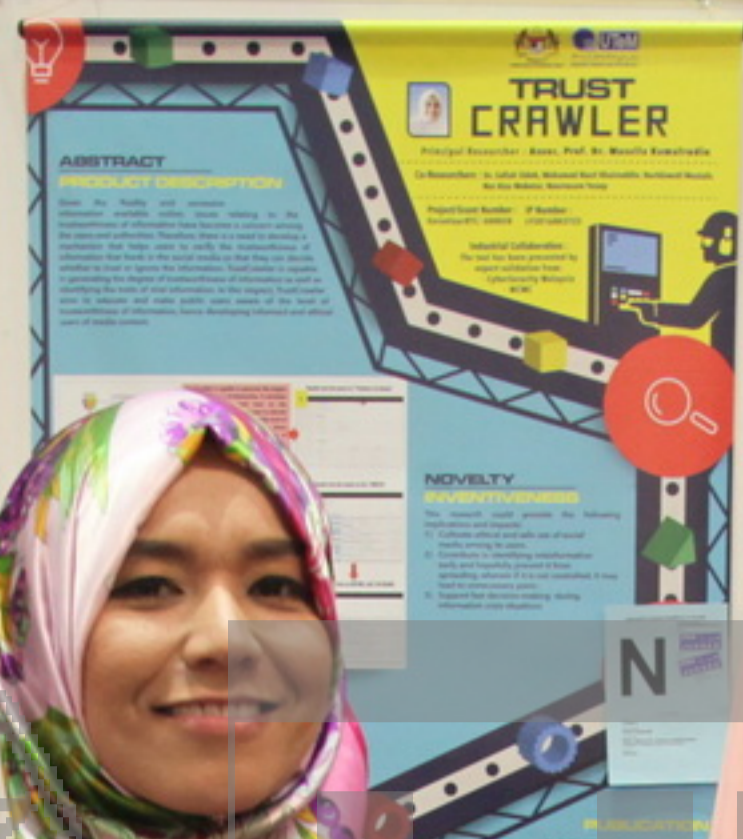
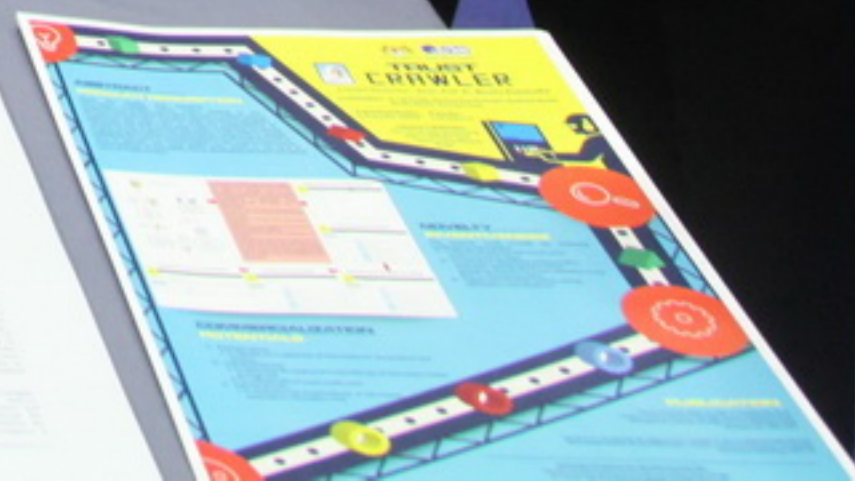
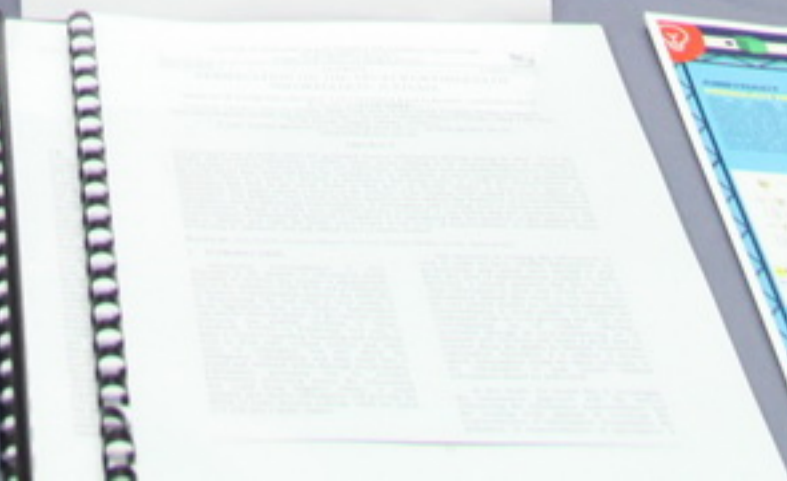
Dr Safiah Sidek, Mohamad Nazri Khairuddin, Nuridawati Mustafiz, Noorrezam Yusoff



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AWARDS

PUBLICATIONS



UNIVERSITI MALAYSIA TERENGGANU



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TrustCrawler

(http://trustcrawler.herokuapp.com/users/sign_in)

Researchers:

Assoc Prof Dr Massila Kamalrudin
Dr Safiah Sidek, Mohamad Nazri Khairuddin, Nuridawati
Mustafa, Noorrezam Yusof



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AWARDS

PUBLICATIONS

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

The poster features a blue and yellow color scheme with a technical diagram of a crawler system. It includes the following text:

- ABSTRACT**
- PRODUCT DESCRIPTION**
- TRUST CRAWLER**
- UNIVERSITI TEKNIKAL MALAYSIA MELAKA

COMMERCIALIZATION POTENTIAL
This prototype is absolutely the best to be used by any consumers out there with or without split air conditioner at home especially to those who are working parents, living in urban residential area and who really want to save their pocket money.

PUBLICATION
S.A Sundi, M.S. Jumali, M.F.A Kasim and R. Ismahah,
Design and development of smart clothes drying system,
Proceedings of Mechanical Engineering Research Day 2017
(MERD17) - Submitted

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ITEX 17

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Smart Clothes Drying System (sCDs)

UTeM



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ASSEMBLED
INNER PANEL

INNER PANEL

POLITEKNIK
MELAKA
EMAS
PERKEMBANGAN INOVASI BARU KE-14
"Inovasi Berballi, Masyarakat Lebih Baik"
2016 DUNIA 2016
17 MAC 2017

NanoEco-Door
Multi-scale Eco Composite Automotive Door Panel

Attributes	NanoEco-Door Product	Steel	NanoEco-Door Product
Weight	1.8 kg	4.1 kg	1.8 kg
Strength	150 MPa	250 MPa	150 MPa
Stiffness	15 GPa	210 GPa	15 GPa
Impact	10 J	15 J	10 J
Production Cost	RM 100	RM 200	RM 100
Recyclability	Yes	No	Yes
Environmentally Friendly	Yes	No	Yes
Corrosion Resistance	Yes	No	Yes
Manufacturing Process	Simple	Complex	Simple
Space Saving	Yes	No	Yes
Weight Reduction	Yes	No	Yes
Production Cost	RM 100	RM 200	RM 100
Recyclability	Yes	No	Yes
Environmentally Friendly	Yes	No	Yes
Corrosion Resistance	Yes	No	Yes
Manufacturing Process	Simple	Complex	Simple
Space Saving	Yes	No	Yes
Weight Reduction	Yes	No	Yes

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**Twin Spindle Milling Cutter Adapter for
Machining Thin-Wall Aerospace Component**

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