

Best of the Best Inventor

in Creation Innovation Technology and
Research Exposition (CITREx) 2019

Nor Azhar Ahmad

Fadhl's Q1 Success Story

Fadhl Mohammed Omar Hujainah

Highlights

| **93%** FSKKP Graduate Employability

| **19 FRGS** successfully secure RM 1,190,230.00

| **SIIF 2018**, South Korea - 2 Special Awards,
2 Gold, 1 Silver, and 1 Bronze awards



**MUSCAT College, Oman
Delegation Visit**

Editor's Foreword

Assalamualaikum w.b.t and warm greetings to all,

On behalf of the editorial team, I am very pleased to present you the first issue of 2019 which features tremendous achievements from our colleagues and students especially in research area throughout 2018, especially in receiving large amount of FRGS grants and the number of publication published. This edition also brings a sharing column on "How to write an ISI articles" by Fadhl, our outstanding Postgraduate Student, the list of FRGS 2018 recipients as well as an overview of our undergraduate students achievement during the 13th UMP Convocation.

In conjunction with the wonderful performance in 2018, on behalf of the editorial team, we congratulate all the faculty members especially to Assoc. Prof. Ts. Dr. Mohamad Fadli Zolkipli and Dr. Abdulrahman Ahmed Mohammed Al-Sewari in winning 2 Special Award in Seoul Invention & International Fair (SIIF) 2018, 19 FRGS Recipients, Mr. Nor Azhar Ahmad, the winner of Best of The Best Award in Citrex 2019 with 4 other projects winning the Top 5 and also to Dr. Suryanti Awang and Dr Md. Saiful Azad for excellently winning 2 Gold medals in Malaysia Technology Expo (MTE) 2019. We hope this achievements will encourage other faculty members to accomplish our goals and find success by achieving what we have set out to do.

"The achievements of an organization are the results of the combined effort of each individual" – Vince Lombardi

A big congratulation to our former dean, Prof. Ts. Dr. Kamal Zuhairi for being appointed as TNC (PNI) of UMP effective from 15th March 2019. Thank you for your leadership in FSKKP throughout the years and congratulation to Assoc. Prof. Ts. Dr. Mohamad Fadhli Zolkipli for being appointed as our new Dean and wish you every success in your new duties.

I hope all of our readers will enjoy the reading and we look forward for your suggestion and future contributions.

Dr Nor Saradatul Akmar Zulkifli
Chief Editor

Bulletin Team

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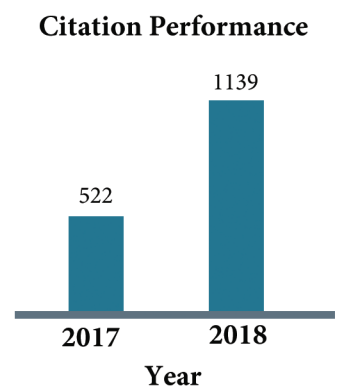
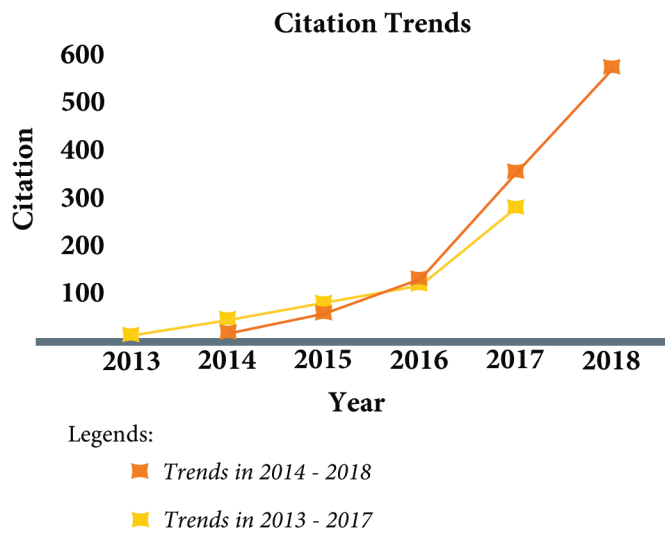
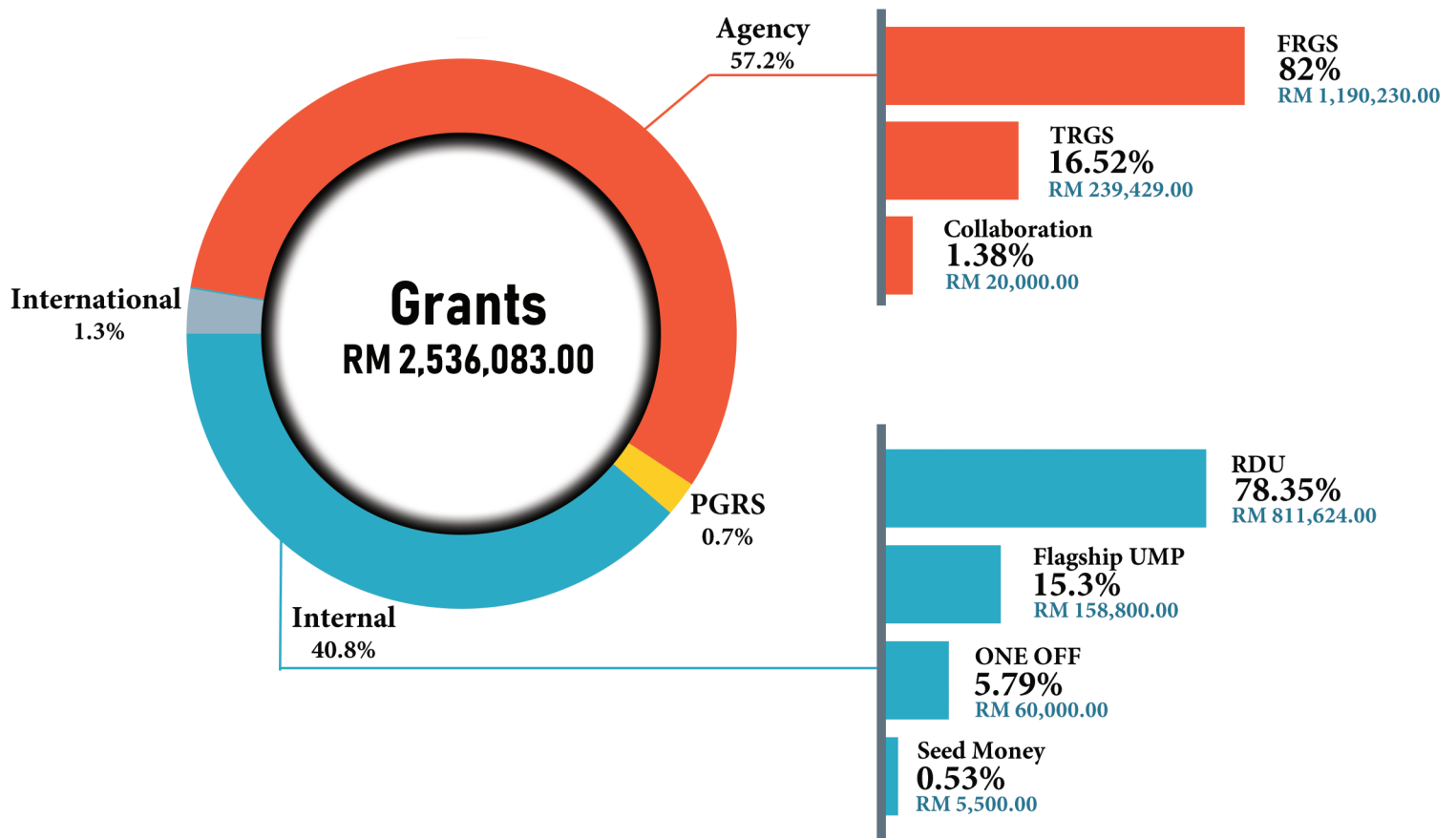
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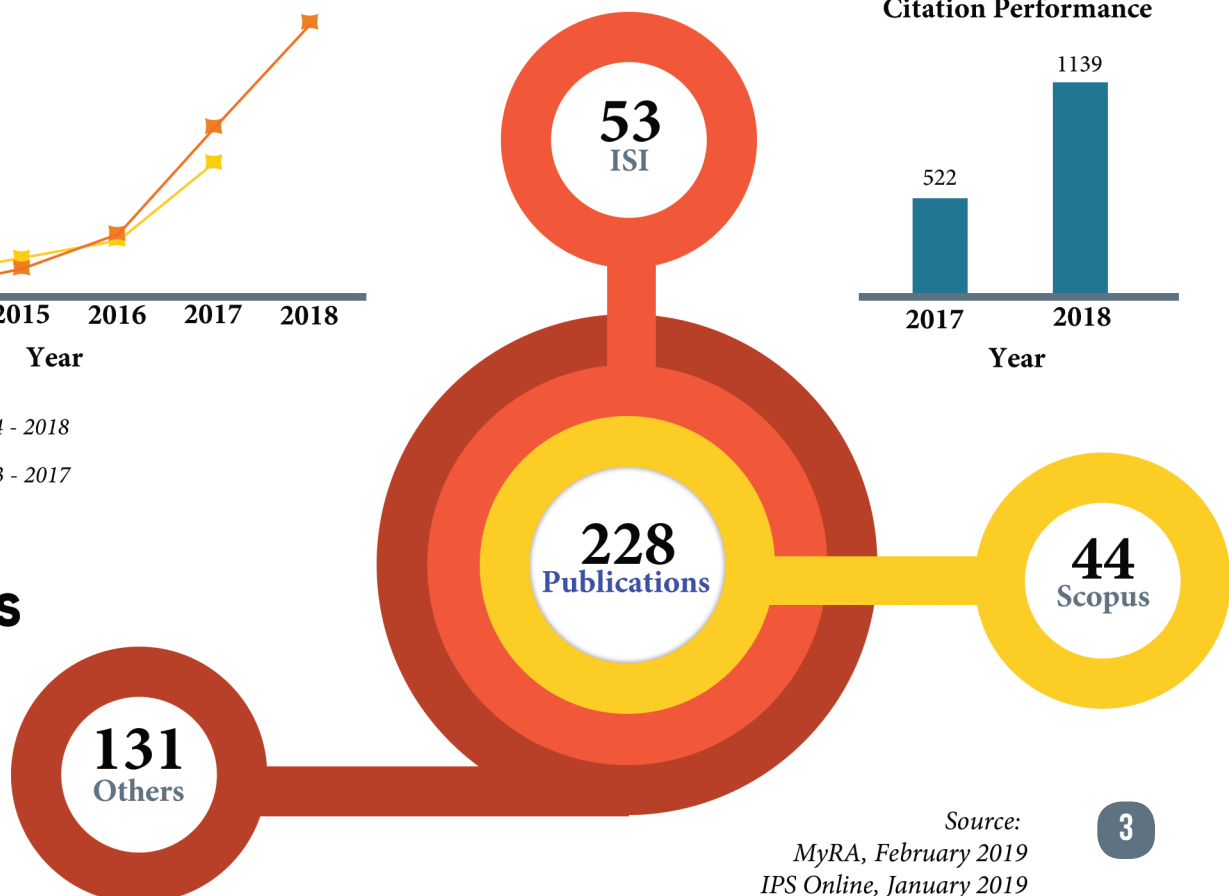
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2018 FSKKP RESEARCH ACHIEVEMENT



Publications



FSKKP SUCCESS STORY

PROFILE

Name : *Fadhl Mohammed Omar Hujainah (PhD)*
Current Sem. : *Semester 8 /2019*
Status : *Submitted for VIVA VOCE*
Thesis Title : *A Semi-Automated Requirements Prioritisation Technique for Scalable Requirements with Stakeholder Quantification and Prioritisation*
Supervisor : *Assoc. Prof. Dr. Rohani Abu Bakar*
Co-Supervisor : *Dr. Mansoor Abdullateef Abdulgabbler*
Publications : *14 research articles*
9 ISI (3 Q1) & 5 Scopus

What motivates you in writing?

The writing process begins with passion and love. Writing is something that I love to do and is part of my lifestyle. Beside this personal motivation, the strongest motivation is the encouragement and full support from my supervisor and co-supervisor. Their wonderful guidance and insights drive me to write. Plus, they work hand in hand with me, and their words of motivations keep my passion for writing alive. Additionally, the passion and keen interest of the faculty, Dean and TDR in giving full support for securing quality of publication and providing a good research environment play a key role in motivating me to struggle and work hard to write and get published in well reputed journals.

How do you manage your time between research, writing and other commitments?

I always schedule my activities, tasks and works by creating a daily or weekly effective schedule, allowing for a contingency time for unexpected tasks. In my schedule, I set the high priority tasks first, including breaks, and consider a day or half day off every weekend as part of the schedule. I work hard to stick to the schedule created and fiercely protect my time from any distractions to keep me on track to accomplish the defined goals. Establishing a good balance between research, writing and personal life requires a lot of effort, but it can be achieved by being committed to an effective schedule.



Any tip in writing a good and worth article for ISI journals?

To write a good research paper, a clear and effective plan should be created while considering the following points:

- Choose a research topic that you are interested in.
- Execute systematic literature exploration to obtain clear understanding of the current state of the selected topic.
- Construct new possible contributions that can add new value to the investigated research topic.
- Build the manuscript structure based on the standard structure of the scientific paper such as “IMRaD” format
(Introduction: what did you/others do? why did you do it? Methods: how did you do it? Results: what did you find? and Discussion: what does it all mean?)
- Write the first draft based on the specified structure using appropriate descriptive words.
- Be sure to have clear thinking and a quiet, clean place to write.
- Try to get feedback from professional experts such as your supervisor.
- Read the first draft carefully and then rewrite.
- Do professional proofreading and editing for the final version of the paper.
- Work hard to commit to daily tasks planned until the paper is published.

How do you know about these reputed journals?

Through the literature exploration of the existing related works to my research domain, supervisors, seminars, colloquium, and workshops provided by the university and the faculty.

Free Journal or Paid Journal? If free, are you using your own money or SV's grants?

I prefer the free journal. However, the paid journal can be a good choice in case there are time constraints. Submitting to the paid journals such as “IEEE Access” can provide rapid peer review advantage compared to the free journals. Concerning publication in a paid journal, all the publication expenses are covered using the grants of the supervisor and faculty.

AWARDS AND EXHIBITIONS



SIIF 2018

Seoul International Invention Fair

6th - 9th December 2018



Gold & Special Award

FIREFLY COMBINATORIAL TEST LIST GENERATOR FOR IOT SYSTEMS

Dr. Abdulrahman Ahmed Mohammed Al-Sewari

NEXT GENERATION SECURITY OPERATION CENTER (NGSOC)

PM. Ts. Dr. Mohamad Fadli Bin Zolkipli



Silver Award

INTELLIGENT INTERACTION TEST SUITE GENERATOR FOR LARGE IOT TESTING

Dr. Abdulrahman Ahmed Mohammed Al-Sewari



Bronze Award

SAFECYBER: SYSTEM FOR THE SAFETY OF FINANCIAL TRANSACTIONS AND USERS' AGAINST ONLINE FRAUD AND CYBERCRIMES

PM. Ts. Dr. Mohamad Fadli Bin Zolkipli

21st - 23rd February 2019

 **MTE 2019**
Malaysia Technology Expo

Gold Award

A SMART AND SECURE APPLICATION LOCKER FOR SMART DEVICES

Dr. Md Saiful Azad

ROAD TRANSPORT 4.0: INTELLIGENT VEHICLE RECOGNITION SYSTEM

Dr. Suryanti Awang



Bronze Award

IOT ENABLE RELAY NETWORK FOR DEMAND BASED LIGHT INTENSITY CONTROLLED SEAMLESS HIGHWAY LIGHTING SYSTEM

Dr. Md. Arafatur Rahman



Gold Awards

**EFFICIENT BINARY VOTE FRAGMENTED DISTRIBUTED DATABASE REPLICATION
MODEL FOR ONLINE SELLING WEBSITES**

PM. Dr. Noraziah Binti Ahmad

**DATA-INFORMED INTELLIGENT TV RATING SYSTEM BASED ON
ADAPTIVE IR TECHNOLOGY**

Dr. Md. Arafatur Rahman

TeKET: A TREE-BASED KEYPHRASE EXTRACTION TECHNIQUE

Dr. Md Saiful Azad

**GENE REGULATORY NETWORK CONSTRUCTION BASED ON PASSING ATTRIBUTES
BETWEEN NETWORK FOR DATA ASSIMILATION USING PYTHON (PYPANDA)**

Dr. Kohbalan A/L Moorthy

A BUFFER-BASED ONLINE CLUSTERING FOR EVOLVING DATA STREAM

Dr. Md Manjur Ahmed

**StakeQP: AUTOMATED TOOL FOR STAKEHOLDERS QUANTIFICATION AND
PRIORITIZATION IN SOFTWARE SYSTEMS DEVELOPMENT**

PM. Dr. Rohani Binti Abu Bakar

**AN AUTOMATED RULE BASED REASONING MODULE FOR TEACHING TECHNIQUE
ASSISTANCE SOFTWARE BASED ON INDOOR AIR QUALITY (IAQ) DATASET
& SICK BUILDING SYNDROME (SBS) SYNDROME QUESTIONNAIRE**

Nor Azhar Bin Ahmad

**ENHANCEMENT OF SINGLE PATH TO MULTI-PATH CLUSTERING IN WIRELESS
SENSOR NETWORK FOR ENERGY CONSERVATION**

Dr. Wan Isni Sofiah Binti Wan Din

**HILBERT-PEANO AS AN IMPROVED MAPPING PATTERN OF FRAGILE
WATERMARKING SCHEME**

Dr. Syifak Binti Izhar Hisham

Rex-Chain: ROOT EXPLOIT DETECTION AND BLOCKCHAIN

Dr. Ahmad Firdaus Bin Zainal Abidin

NOMADIC PEOPLE OPTIMIZER (NPO)

Dr. Abdulrahman Ahmed Mohammed Al-Sewari

Best of The Best Award

**AN AUTOMATED RULE BASED REASONING MODULE FOR TEACHING TECHNIQUE
ASSISTANCE SOFTWARE BASED ON INDOOR AIR QUALITY (IAQ) DATASET & SICK
BUILDING SYNDROME (SBS) SYNDROME QUESTIONNAIRE**

Nor Azhar Bin Ahmad

27
SILVER

5
BRONZE

TIMELINE: BEST OF THE BEST INVENTOR

1

2016

International Competition and Exhibition on Computing Innovation (iCE-CInno), UMP Gambang, Pahang (Teknik analisis kualiti udara dan pembelajaran) - Bronze Medal

2

2018

Creation, Innovation, Technology & Research Exposition (CITREx), UMP Gambang, Pahang (Teknik pengurusan sistem IoT melalui inisiatif IR4.0) - Bronze Medal

3

2018

*International Festival of Innovation on Green Technology (i-FINOG), UMP Gambang, Pahang (Sistem peman-
tauan bangunan hijau)- Gold Medal*

4

2018

Innovative Research, Invention and Application Exhibition (I-RIA), UUM Sintok, Kedah (Teknik analisis IoT untuk alam sekitar) - Gold Medal

5

2018

"Best of the Best, and Berlian Award"

2nd Breakthrough Invention Innovation and Design Exhibition (BiIDE), UiTM Raub, Pahang (Sistem pengurusan analisis alam sekitar) - Gold Medal



PROJECT DESCRIPTION

The project is focusing on indoor air quality detection and analysis. It is capable of detecting temperature, humidity, carbon monoxide gas, carbon dioxide gas, dust content, inert organic composition, and air mass. The collected data will be analyzed to gain a deeper understanding of air pollution in closed space.

PROJECT BACKGROUND

Realizing the significance of knowing indoor air quality, a tool is developed for the purpose of facilitating air analysis, however, equipments with existing industrial grade is extremely expensive and can not be owned by everyone. Furthermore, it can be said that all existing equipments, are sensor readings only, they cannot do specific analysis.

For example; the reading showed 35 degrees centigrade with humidity of 34 Rh.

Existing tools only provide such information. However, this developed equipment can tell there is a growing fungus around the sensory area, which will contribute to the sick building syndrome (SBS).



"Best of the Best Innovation"

2019

Creation, Innovation, Technology & Research Exposition (CITREx), UMP Gambang, Pahang (Sistem IoT pengurusan awal pensijilan bangunan hijau dan Sistem pengurusan bantuan keputusan teknik perngajaran berasaskan kualiti dalam ruangan belajar), **1 Gold, 1 Silver Medals**



8

2019

Bangkok International Intellectual Property, Invention, Innovation and Technology Exposition (IPITEx), Bangkok, Thailand (Sistem pengurusan bangunan hijau automatik, Sistem pengurusan saranan teknik belajar dan Sistem pengurusan ruangan belajar) - **1 Gold, 2 Silver Medals**

7

2018

EDUInnovation, UKM Bangi, Selangor (Sistem IoT pengurusan ruangan belajar) - **Bronze Medal**

6

INDUSTRIAL ENGAGEMENT

INDUSTRY TALK GET-IT DAY



14 Jan 2019 - FSKKP organized a one-day program called 'Graduate Employability & Industrial Training (GET-IT)' at Astaka Hall, UMP. The objective of this program is to celebrate the final year students who were undergoing the industrial training in Semester 1 2018/2019 and provide them with a platform for job hunting. The four industry companies that shared their expertise to the students were Telekom Malaysia Berhad, Sysarmy Sdn Bhd, Golden Carousel Sdn Bhd and Johawaki Holdings Sdn Bhd. The speakers also shared their thoughts about working life, job opportunities and the challenges that students would face after graduating. Furthermore, the companies received many resume submissions from the students seeking for employment opportunities.

MASTER EXECUTIVE TECHNOLOGY CYBER SECURITY STARTS IN JUNE 2019

January 2019 - Master Executive of Technology in Cyber Security has been approved by Jawatankuasa Pembelajaran Sepanjang Hayat (JKPSH) and Majlis Pembelajaran Sepanjang Hayat (MPSH), UMP. This master executive is initiated and developed to offer theoretical and practical knowledge to students. It contains 12 modules, and students will be awarded a Master certificate after completing all the modules. Furthermore, the syllabus is arranged to let students sit for a professional certificate exam after every 4 respected modules are completed. This professional certificates are recognized globally, thus it is recommended for the students to have them as added values to themselves. FSKKP aims that the registered students would get a master executive and 3 certificates after completing this one-year program.

The professional certificates are as follows;

- i. Certificate Incident Handling Engineer (CIHE)
- ii. Certificate Security Web Application Engineer (CSWAE)
- iii. Information Security Management Support – Lead Editor (ISMS- LA)

*Pictures: Infrastructure at IoT Academy



INTERNATIONAL ENGAGEMENT



The MoA Signing Ceremony between UMP and NUB



The MoA Signing Ceremony between UMP & MIU

The **Signing Ceremony of Memorandum of Agreement (MoA)** between **University Malaysia Pahang (UMP)** and two prominent universities in Bangladesh, which are **Northern University Bangladesh (NUB)** and **Manarat International University (MIU)**, were held in Dhaka, Bangladesh, 3rd October and 4th October 2018, respectively.

The honorable Vice-chancellor of UMP, Professor Dato' Sri Ts. Dr. Daing Mohd Nasir Bin Ibrahim and the vice-chancellors of two Bangladesh universities (NUB & MIU) signed the agreement on behalf of their respective institutions.

The primary objective of this MoA is to create a means of cooperative efforts to affect the academic, research and cultural interchange between the respective academies. This MoA refers to exchanging students, or faculty members between the collaborated institutions for the purposes of study, learning, teaching and/or research. By this agreement, the institutions would have been benefited from the strategic collaboration especially in terms of student development, students' maturity and competitiveness; with the opportunity for students from the institutions to experience extended mobility program and yet awarded degree from our institution. For sure, students will have fruitful experience learning from different cultures as well.

Finally, this MoA is the instrument that would bring UMP to greater edge, and at the same time benefiting NUB & MIU for their willingness to co-operate with us, thus contributing towards a closer academic tie between Malaysia and Bangladesh.

In this regard, we truly proud and delighted that NUB & MIU have shown great interest to initiate strategic collaboration with UMP that would contribute significantly to academic excellence and research partnership.

INTERNATIONAL ENGAGEMENT

MUSCAT College, Oman Delegation Visit

26 Feb 2019 – The faculty has received a delegation from Muscat College of Oman, leading by the Dean of Muscat College, Dr. Yasmin Al-Bulushi and the Assistant Dean of Academic Affairs, Dr. Mathew Philip. They were welcomed by the faculty management including the Dean of FSKKP, Prof. Ts. Dr. Kamal Zuhairi, the Deputy Dean of Academic, Assoc. Prof. Ts. Dr. Mohamad Fadli, the Deputy Dean of Research and Postgraduate Studies, Assoc. Prof. Dr. Mohd Nizam, and the Head of Programs. The purposes of the visit was to hold further discussion on the current academic alliance between FSKKP and Muscat College and to experience the teaching & learning environment and the available facilities in FSKKP. The visit is a part of the Memorandum of Agreement (MoA) between UMP and Muscat College, signed in 2014. The academic alliance allows Muscat College to offer three UMP academic programs from two faculties, FSKKP and FIM, at their campus. The academic programs from FSKKP are Bachelor of Computer Science (Computer Systems & Networking) and Bachelor of Computer Science (Software Engineering).



The delegation was given a tour by the faculty around the facilities like lecture and laboratory rooms in Block X, Y and Z. During the tour, they were able to visit several laboratory sessions held at Block Y.

Lecturer briefed them on lab equipment such as Lego Mainstorm EV3 robots and showed available software installed in the lab. In addition, they were brought to the multimedia lab to experience the augmented reality environment. The visit ended with a photo session of the delegation, the faculty management and lecturers.



CORPORATE SERVICE RESPONSIBILITY

CSR Program: Fun with Lego Mindstorms EV3 Robot

6 October 2018, FSKKP has organized a CSR program entitled “Fun with Lego Mindstorms EV3” at FSKKP computer labs. Two teachers and 60 students from three schools around Kuantan, **Sekolah Menengah Kebangsaan Sultanah Hajjah Kalsom**, **Sekolah Kebangsaan Tunku Azizah** and **Sekolah Menengah Teknik Kuantan**, participated in this program with eight FSKKP lecturers, acting as facilitators.

The objective of this activity is to expose them to the FSKKP programs especially Diploma in Computer Science program. At the same time, the activity could promote UMP among secondary school students in Kuantan.



Student setup the Lego Mindstorms

During the program, the students learned about programming using the Lego Mindstorms EV3 software and robots. We could see they were excited when interacting with robots and completing some of the exercises provided by the facilitators. The program ended with a photography session by all participants and a prize giving ceremony.



Student from Sekolah Menengah Kebangsaan Sultanah Hajjah Kalsom



Competition begin!



Student from Sekolah Kebangsaan Tun Azizah



14-15 January 2019

GET-IT FSKKP



MUSCAT College Visit

26 Feb 2019



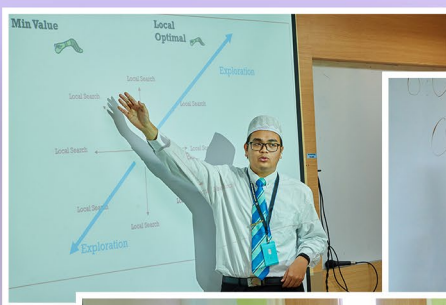
Fun with Lego Mindstorms EV3 Robot

6 October 2018





"Capture the Nature"
26 Feb 2019



28 December 2018
Monsoon Symposium



26-27 December 2018
Meta-heuristic Workshop



Gala Dinner
28 December 2018



TIPS AND TRICKS SECURING A GRANT

A SHARING MOMENT FROM DR. MOHAMED ARIFF AMEEDEN (DIRECTOR OF UMP IBM-COE)

First of all, thank you Dr Syifak for honouring me with an invitation to share information with the rest of our colleagues.

I am humbled and surprised by the invite, but I will try my best to provide answers to your questions. However, before we go further, please let me clarify that this TRGS consist of three subprojects and I am just leading one of the said subprojects.

TRGS project title:

Supervised Neural Network based Predictive Algorithm for Photoreforming Parameters in Petrochemical Wastewater Treatment

Can you share briefly about the project? What is the expected output(s) and the impact to the society?

This project is actually an extension of Dr Chin Sim Yee's (FKKSA) project of performing Photoreforming in Petrochemical Wastewater treatment. What my subproject proposes is using Artificial Intelligence to predict the best cause of treatment for the wastewater by studying the pattern of previous historical data obtained from the industries. The impact of this project would be a more systematic and efficient effort in recycling Petrochemical Wastewater which should in turn help create a better environment as well as reduce the cost of wastewater treatment.

Any useful tips that might help other applicants?

I am not sure that I am the best one to give tips about this, but I will try. Applying for TRGS is a team effort, consisting of three related subprojects that should relate to one another, but at the same time able to stand on its own. Each subproject must have a significant contribution to the overall cause of the project. To achieve this, each subproject leader would need to coordinate their effort together with the other two subproject leaders and the overall project leader must play their part in providing their overall vision of the project clearly to the rest of the team. In our case, we were blessed by having a few really strong researchers within the overall project, and a good vision provided by Dr Chin who defined the scopes of all three projects very clearly.

Any unforgettable experience during the applying process?

It was all a brand new learning experience for us, since it was a multi-disciplined projects. It was an eye-opener for us to see how collaboration between the expertise of different faculties could lead to a research project that could potentially benefit the petrochemical industries in Malaysia. It was also interesting for us to mingle with the senior Professors in the team who are able to share their knowledge and vision with us younger researchers. Clearly we can always benefit by talking to people with much more experience than us.

What is the main part to focus when writing the proposal?

In general, for every proposal that I write, I start with the problem and then elaborate on the potential solution that I would be able to offer. Therefore, that is the part I put the most focus on. The financial implications, timeline, and deliverables comes after that. It is also good to have a strong team with you while you write the proposal, at least to bounce ideas and to provide some critical analysis.

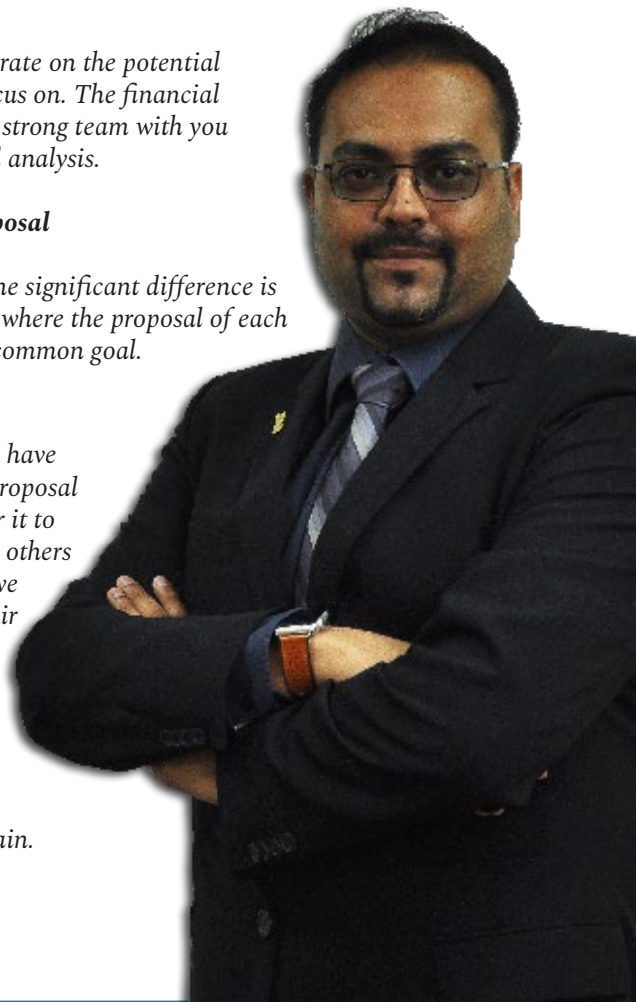
What is the difference, if there is any, between FRGS proposal and TRGS proposal

Writing an FRGS proposal or a TRGS proposal, they are very similar. However, the significant difference is that while FRGS is a standalone project, a TRGS needs to be a wider team effort where the proposal of each subproject is related to the other two subprojects; all working together towards a common goal.

Any last word?

*Thank you for providing me with this opportunity, although I personally feel that I have not done enough to justify this invitation. In general, I believe writing a research proposal and a grant proposal is extremely similar and has to go through a few iterations for it to become better. Researchers need to keep an open mind and value suggestions from others especially within their own team to make the proposal the best it could be. While we are talking about teams, I would like to personally thank my team members for their contribution towards obtaining this grant especially **Abbas Saliimi Lokman** for helping out with most of the proposal and **Dr Kohbalan Moorthy** for helping out during the grant defence at KPM. But let's not forget, it's much too early to celebrate anything since we have just secured the grant - the hard work starts after this to ensure that we deliver our promise.*

Above all, if you don't succeed the first time, don't let that stop you from trying again. Good luck to everyone.



LIST OF FRGS RECEPIENTS

RESEARCH TITLE	NAME	AMOUNT APPROVED (RM)
<i>A Novel Hybrid Kidney-Inspired Algorithm for Global Optimization</i>	<i>Dr. Abdulrahman Ahmed Mohamed Al-Sewari</i>	<i>65,180.00</i>
<i>A Dynamic Step-Counting Hill Climbing Algorithm for Optimal Routing System</i>	<i>Assoc. Prof. Dr. Mohd Nizam Bin Mohmad Kahar</i>	<i>59,200.00</i>
<i>A Novel Model of Domain Ontology Construction Knowledge Sharing in Structured Knowledge Management</i>	<i>Dr. Rahmah Binti Mokhtar</i>	<i>68,200.00</i>
<i>Optimizing The Production of Biochemical Systems using An Improved Newton Cooperative Coevolutionary Algorithm</i>	<i>Dr. Mohd Arfian Bin Ismail</i>	<i>58,700.00</i>
<i>A Conceptual Framework Developing Eco-Design Ontology Based on Life Cycle Assessment Within Product Sustainability</i>	<i>Ts. Dr. Awanis Binti Romli</i>	<i>55,100.00</i>
<i>A New Embedding Technique Based on Psychovisual Threshold Robust and Secure Compressed Video Steganography</i>	<i>Ts. Dr. Ferda Ernawan</i>	<i>59,950.00</i>
<i>Compound Machine Learning Based Decision Making Model in Autonomous Vehicle Control System Cooperation and Mitigation of Collision Among Multiple Vehicles</i>	<i>Dr. Syafiq Fauzi Bin Kamarulzaman</i>	<i>54,000.00</i>
<i>A New Model Automated Stakeholder Quantification and Prioritization Based on User Needs Software Systems Development</i>	<i>Assoc. Prof. Dr. Rohani Binti Abu</i>	<i>62,200.00</i>
<i>A Novel Software Defined Multidimensionally Optimized Routing Framework and Algorithm Towards Next Generation Wireless Communications</i>	<i>Dr. Md. Arafatur Rahman</i>	<i>60,400.00</i>
<i>A Green Campus Paradigms Model Based on Analytic Hierarchy Process and Knowledge Mapping Towards Sustainable Development In Institutions of Higher Learning</i>	<i>Assoc. Prof. Ts. Dr. Mazlina Binti Abdul Majid</i>	<i>66,700.00</i>
<i>A New Hexagonal Lattice Structure in Kohonen's Supervised Neural Network Learning Algorithm Dataset Classification Problem</i>	<i>Dr. Bariah Binti Yusob</i>	<i>59,200.00</i>
<i>A New mulation of Deep Learning Models Fast And Accurate Early-Stage Alzheimer's Detection System</i>	<i>Dr. Taha Hussein Alaaldeen Rassem</i>	<i>61,500.00</i>
<i>An Adaptive Modeling of Dengue Disease From Multiple Sources of Data using Ensemble of Neural Network and Seasonal Autoregressive Moving Average</i>	<i>Dr. Junaida Binti Sulaiman</i>	<i>67,200.00</i>
<i>Formulation of An Enhanced Particle Swarm Optimisation Large Scale Metabolic Network (EMPSO)</i>	<i>Dr. Noorlin Binti Mohd Ali</i>	<i>60,200.00</i>
<i>A New Neural Network Model Small Datasets Chatbot Framework Based on Thought Vector Keywords Matching</i>	<i>Dr. Mohamed Ariff Bin Ameen</i>	<i>80,200.00</i>
<i>Bipartite Fuzzy Granular Model An Intelligent System: New Concepts of Pseudo-Dynamic Constraint and Context Mapping</i>	<i>Dr. Md. Manjur Ahmed</i>	<i>59,700.00</i>
<i>A New Binary Vote Assignment Data Grid Mining with Fault Tolerance (Bvadgm-Ft) Algorithm Fragmented Distributed Databases Replication in Big Data</i>	<i>Assoc. Prof. Dr. Noraziah Binti Ahmad</i>	<i>85,300.00</i>
<i>A New Domain Knowledge Model in Heart Disease Diagnosis Using Fuzzy Logic</i>	<i>Ms. Azma Binti Abdullah</i>	<i>56,300.00</i>
<i>Hybrid Self-Organized Swarm Intelligence forensic Algorithm And Neural Network Model In Estimating Age Multiple Populations</i>	<i>Dr. Mohd Faaizie Bin Darmawan</i>	<i>51,000.00</i>

13TH UMP CONVOCATION AWARDEES AND GRADUATE EMPLOYABILITY ACHIEVEMENT



GRADUATE EMPLOYABILITY (GE) PERCENTAGE

UMP ► **96%**

FSKKP ► **93.21%**

TOTAL EMPLOYED GRADUATES: 261/280

*As in January 2019

KOREAN LANGUAGE

한국 단어를 배웁시다!

Han-guk dan-eo-rel bae-ub-shi-da!

Let's Learn Korean Words!

KOREAN VOCABULARIES IN HANGEUL	KOREAN WORD TRANSLITERATION	MEANING
우리	u-ri	we/our
저	jeo	I
배우다	bae-u-da	learn
교수 (님)	gyo-su (nim)	lecturer (Gyosunim is used when student calls a lecturer)
학생	hak-seng	student
학과	hak-gwa	department
전공	jeon-gong	major
대학교	dae-hak-gyo	university
수업	su-ob	class
예쁘다	yei-pe-da	beautiful
맛있다	mas(h)-it-ta	delicious
재미있다	jei-mi-it-ta	interesting

안녕하세요! 만나서 반갑습니다.
An-nyong-ha-sei-yo! Man-na-so
ban-kab-sem-ni-da.
Hello! Nice to meet you.

우리 대학교에 환영합니다.
U-ri dae-hak-gyo-ei hwan-
yong-ham-ni-da.
Welcome to our university.

우리는 UMP를 사랑해요!
U-ri-nen UMP-rel sa-rang-hei-
yo!
We love UMP!

저는 시팩입니다. 저는 컴퓨터학과의 교수인데 컴퓨터 구조와 조직의 과목을 가르칩니다.
Jeo-nen Syifak-im-ni-da. Jeo-nen keom-pyu-teo-hak-gwa-ei gyo-su-in-dei keom-pyu-teo gu-jo-wa jo-
jik-ei gwa-mog-el ga-re-cim-ni-da.

I am Syifak. I am a lecturer of Computer Department, which I teach Computer Architecture and Organi-
zation subject.

제 이름은 사라입니다. 저는 컴퓨터과 학생입니다. 제 전공은 시스템과 네트워킹인데요.
Jei i-rem-en Sa-ra-im-ni-da. Jeo-nen keom-pyu-teo-gwa hak-seng-im-ni-da. Jei jeon-gong-en Si-se-tem-
gwa Ne-te-weo-king-in-dei-yo.

My name is Sara. I am a Computer Department student, while my major is System and Networking.

지금은 쿠안탄에서 살고 있어요. 쿠안탄은 많이 예쁜 곳이 있고 다양한 맛있는 음식이 있으나
까 재미있는 도시인데요.

Ji-gem-en Ku-an-tan-ei-seo sal-go iss-eo-yo. Ku-an-tan-en man-i yei-ppen gos(h)-i it-go da-yang-han
mas(h)-it-nen em-s(h)ig-i iss-e-ni-kka jei-mi-it-nen do-s(h)i-in-dei-yo.

Now I am living at Kuantan. Kuantan is an interesting city as it has a lot of beautiful places and various
delicious food.

Selamat Hari Raya Aidilfitri 2019



Jambangan indah lagi berseri,
Menjadi hiasan di Aidilfitri,
WhatsApp dikirim pengganti diri,
Tanda ingatan tak lupa dihati

Ramadhan bakal beransur pergi,
Syawal menjelma di Aidilfitri,
Seikhlas hati menyusun jari,
Memohon dimaaf kekhilafan diri,



UPCOMING EVENTS

2ND INTERNATIONAL COMPETITION & EXHIBITION ON COMPUTING INNOVATION (ICE-CINNO 2019)

22 - 24 SEPTEMBER 2019
SPORTS COMPLEX, UMP GAMBANG CAMPUS



2019 iCE-Cinno

INTERNATIONAL COMPETITION AND EXHIBITION ON COMPUTING INNOVATION 2019 | "Eyeing The Future"

2019 marks the 2nd installation of The International Competition and Exhibition on Computing Innovation (iCE-Cinno) with the theme "Eyeing The Future". iCE-Cinno is an international competition which is mainly aimed for computer-based innovation. The competition is organised by Universiti Malaysia Pahang. The first iCE-Cinno had been held on 2016 and successfully involved 120 participants from local and international institutions with the theme "Communitising Innovative Computing". The exhibition reflects upon digital inventions having been the basis for changes, with the convergence of academia, e-learning and industrial practices. iCE-Cinno covers digital technologies that emphasized Autonomous Robots, Big Data Analytics, Cloud Computing, Internet of Things, Additive Manufacturing (3D Printing), System Integration, Cybersecurity and Augmented Reality supporting industry 4.0 (IR4.0).

Category	One Participant	More Than One Participant*
Primary School	RM 250.00	RM 225.00
Secondary School	RM 300.00	RM 285.00
Skills Training Center	RM 350.00	RM 332.50
Undergraduate	RM 350.00	RM 332.50
Postgraduate	RM 350.00	RM 332.50
Open Category	RM 400.00	RM 380.00

*Note: 10% discount for more than 1 participant in a single registration

Awards Categories:

Gold Silver Bronze

Special Awards Categories:

Primary School Secondary School
Undergraduate Postgraduate
Skills Training Center
Open Category

Important Date

Call For Participants:
January 2019

Contact us:
Secretariat
icecinno@ump.edu.my

Registration:
February - June 2019

Organised by:
 Faculty of Computer Systems & Software Engineering
Universiti Malaysia Pahang,
Lebuhraya Tun Razak, 26300 Gambang,
Kuantan, Pahang Darul Makmur, MALAYSIA
www.ump.edu.my

Payment Due:
31st August 2019

Scan To Register:



website: icecinno.ump.edu.my

6TH INTERNATIONAL CONFERENCE ON SOFTWARE ENGINEERING & COMPUTER SYSTEMS (ICSECS 2019)

25 - 27 SEPTEMBER 2019

VISTANA HOTEL, KUANTAN, PAHANG




A jointly workshop with International Conference of Software Engineering & Computer Systems (ICSECS'2019)

WORKSHOP

24 SEPTEMBER 2019

VISTANA HOTEL, KUANTAN

FREE 20 SEATS FOR EARLY ICSECS'2019 PARTICIPANTS

Speaker
Professor Ts. Dr. Kamal Zuhairi Zamli

Constructing hybrid-meta-heuristics and hyper-heuristics for general optimization

PRE-CONFERENCE WORKSHOP
24 SEPTEMBER 2019




icsecs.ump.edu.my

2019 CALL for PAPERS

6th International Conference on Software Engineering & Computer Systems

IR 4.0: Eyeing the Future

The 6th International Conference on Software Engineering and Computer Systems (ICSECS'19) serves as a platform to address the challenges in the areas of Software Engineering and Computer Systems particularly on the specific issues of Industrial Revolution 4.0 (IR 4.0). With the theme "IR 4.0: Eyeing the Future", thereby presenting a consolidated view to the interested researchers in the aforementioned fields. The conference looks for significant contributions towards theoretical and practical aspects on the future applications.

Conference Tracks

Track 1: Internet of Things, Big Data and Autonomous Robots
Track 2: Simulation and Virtual/ Augmented Reality
Track 3: Additive Manufacturing and System Integration
Track 4: Cyber-Security and Cloud Computing

Conference Workshop

In Conjunction with the conference, **A Hands on WORKSHOP on Constructing hybrid-meta-heuristics and hyper-heuristics** is organised a day before the conference. The first 20 registered participants (early bird) will be given **FREE SEAT for workshop**. Thus, hurry up to secure your seat in the workshop!

Important Dates

Full paper submission	25 May 2019
Notification of acceptance	25 June 2019
Final camera ready	25 August 2019
Early bird registration	25 August 2019
Final registration & payment	5 September 2019
Workshop	24 September 2019

***Accepted paper will be published in scopus indexed journal/ proceeding**

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Universiti Malaysia Pahang
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Fax : +609- 549 2144
Email : icsecs@ump.edu.my

Call for submission in bit@FSKKP

Are you an expert in your field? Do you like to express your view in writing?

The Bulletin team is inviting all readers to submit articles and news on the following topics to be featured in our incoming issues. The topics are :

- a. Technology in Trends - Green Computing, Big Data, IR 4.0, Blockchain
- b. Perkongsian Rohani - Tazkirah
- c. Food for thought - light reading and infotainment

Please send all submissions to buletinfskkp@ump.edu.my

Please include : Full name, pen name, copy of your article in Microsoft Word Format. You can also submit a photo if you like.

Rules:

- + Maximum - 1 page
- + Minimum - 1/2 Page
- + Font : Times New Roman
- + Size : 12
- + Normal Margin



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