IE Insight

FOREWORD

بِسْمِ اللَّهِ الرَّحْمَٰنِ الرَّحِيمِ

اَلسَّلَامُ عَلَيْكُمْ وَرَحْمَةُ اللهِ وَبَرَكَاتُهُ

Pg Dr Emeroylariffion Abas

The year 2019 has, thus far, been a productive period for the Office of Assistant Vice Chancellor Innovation and Enterprise (OAVCIE). Under the direction of our Assistant Vice Chancellor (Innovation & Enterprise), Professor Mohammad Ayub Sadiq, our office has been engaging more with industries, government agencies, as well as SMEs and NGOs; with the aim of socializing the different types of industry collaborations that Universiti Brunei Darussalam (UBD) is exploring. Thus far, our office has categorised UBD-industry collaborations into five (5) main areas: research and development, UBD's patent database access, teaching and learning, Corporate Social Responsibility (CSR) and other services that UBD provides. It is hoped that we will be able to increase our industry and community engagement, to enable us to further contribute to the social and economic growth of Brunei Darussalam.

On the process side, our office had recently completed the revision of UBD's Consultancy and Outside Work (except Teaching and Training) guideline to encourage our staff and faculties to be more proactive in engaging with industries for consultancy work, and to ease application and approval processes. At the moment, our office is also reviewing and updating our Intellectual Property (IP) policy, and establishing UBD's commercialisation framework for the university to facilitate technical innovation and commercialisation of our inventions.

From January until July, two patents have been granted and another five patents have been screened and processed for filing, making a total of 58 filed inventions for patent protection locally and internationally, with a total of 26 patents granted. The FPT-UBD Innovation Lab, which runs the software training program with collaboration with FPT Enterprise, had sixteen (16) participants undertaking four (4) industry-based projects in big data, web and mobile applications for local and international companies, during the January-May 2019 semester.

Towards the end of 2019, we are hoping to establish UBD's commercialisation framework for the university, to complete the initial phase of University and Industry (U&I) digital platform to allow effective communication between industries and the university's academics, and to see the establishment of UBD Technology and Innovation Support Centre (UBD-TISC) within the framework of World Intellectual Property Organisation (WIPO), for UBD staff and students, as well as the public.

With these efforts, we look forward to a fruitful year for UBD, in the hope of coming closer to the university's vision to become a university of innovation and enterprise.

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IN THIS ISSUE

Foreword 1
Work Trips 2
Talk Series 3
FPT Innovation Lab Closing 4
News from EV 5
Evidence-based Study 6
Industry Visits 7
Visits to OAVCIE 8
Filed Patent Applications 9
Granted Patent Applications 11
News from IE 12

OFFICE OF ASSISTANT VICE CHANCELLOR (INNOVATION AND ENTERPRISE)

The Office of Assistant Vice Chancellor (Innovation and Enterprise) was formed in 2017 to assist in UBD's transformation into a university of innovation and enterprise.

The office functions include Education on Intellectual Property (IP), Entrepreneurship, Patents Application, Marketing and Licensing, Business development and assistance with Start-ups and Industry Outreach. The office also oversees the Innovation Wharf and Prototype Development Unit, is responsible for consultancies and serves as the UBD focal point of contact with industries.

'WORLD INTELLECTUAL PROPERTY ORGANISATION (WIPO) REGIONAL MEETING ON DEVELOPING THE ASEAN REGIONAL TECHNOLOGY INNOVATION SUP-

World Intellectual Property Organisation (WIPO) regional meeting on developing the ASEAN Regional Technology Innovation Support Centre (TISC) Network was held on the 27-28th March 2019 in Hanoi, Vietnam. The meeting, which was jointly organized by WIPO and the National Office of Intellectual Property of Vietnam (NOIP) with support from the Japan Patent Office (JPO), was attended by representatives from WIPO, JPO, various ASEAN national Intellectual Property (IP) office, as well as TISCs around the ASEAN region. Representing Brunei in the meeting were Assistant Vice Chancellor (Innovation and Enterprise), Associate Professor Dr Mohammad Ayub Sadiq and Deputy Director (Innovation and Enterprise), Pg Dr Emeroylariffion Abas. The meeting provided a venue for the different countries to share the development of TISCs in their respective countries and to share challenges and discuss possible solutions as well as to explore further development and cooperation between the different TISCs. WIPO also shared results from their pilot ASEAN TISC Mentorship project, which allows new TISCs to receive training and mentorship for the professional development of their staff in various areas such as patent drafting, patent searching and patent examining. The participants also had a chance to visit Innovation Hub under Hanoi University of Science and Technology, that is working closely with NOIP and has produced many successful technological enterprises in Vietnam.

Group photo with participants from the WIPO regional meeting in developing ASEAN Regional TISC network

UBD has expressed its commitment to establish UBD-TISC with support from WIPO and Brunei Intellectual Property Office (BruIPO) in an effort to support UBD staff and students, as well as the local community. UBD Technology and Innovation Support Centre (UBD-TISC) shall provide different services such as advice on the different Intellectual Property Rights (IPRs) and commercialisation as well as awareness programmes. This is part of the effort by Office of Assistant Vice Chancellor Innovation and Enterprise (OAVCIE) to promote and support the development of innovation and entrepreneurship in Brunei, in general, and UBD, in particular. UBD-TISC is to start its operation, hopefully by the end of this year.

'ASEAN-INDIA WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS & TECHNOLGY TRANSFER'

A one week "ASEAN-India Workshop on Intellectual Property Rights & Technology Transfer" under the ASEAN-India Innovation Platform (AIIP) was held on the 1st-5th April 2019 in New Delhi, India. The workshop was organised by the National Research Development Corporation (NRDC), India (the government of India Enterprise under the Ministry of Science and Technology) who is tasked for the promotion, development and commercialisation of technologies and inventions emanating from various national research and development (R&D) institutions in India. During its six decades in existence, the Corporation has facilitated in the transfer of technologies to more than 5000 entrepreneurs in India and abroad, using different commercialisation vehicles, and has filed more than 1700 patents on behalf of various R&D institutes in India.

The workshop aims to impart knowledge on Intellectual Property Rights (IPRs) in ASEAN member states, in order to promote technological growth of the nation, to share different technology transfer processes and to facilitate networking between member states. More than 30 participants, from the various ASEAN member states, attended the workshop; composed of government officials from Science & Technology (S&T) departments, representatives from industries as well as Intellectual property rights & technology transfer professionals. From Brunei, Pg Dr Emeroylariffion Abas (Deputy Director, Innovation & Enterpirse, UBD), Dyg Hasnah Hassan (Patent Officer, UBD) and Dyg Rahimah Hj Md Yussof (Officer from Science, Technology and Innovation Division at the Ministry of Energy and Industry) attended the workshop. The workshop provided the platform for ASEAN MS to interact with each other, as well as with industry, researchers and policy makers of the different ASEAN member states.

Opening of the Workshop: with NRDC and participants from ASEAN member states

Key themes of the workshop were:-

- Different Intellectual Property Rights (IPRs) and their role in the development of ASEAN member states;
- process of technology transfer and commercialisation;
- presentations by IPR experts from various prestigious Indian organisations/ institutions under the umbrella of NRDC;

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TALK SERIES

13th February 2019

'FROM RESEARCH TO INNOVATION USING THE TECHNOLOGICAL READINESS LEVEL (TRL) APPROACH'

Dr Lim Ren Chong

In this talk, Dr Lim Ren Chong of the Centre of Advanced Material and Energy Sciences described and discussed innovation carried out at UBD using multidisciplinary research using technological readiness level (TRL) approach. TRL is a framework to guide product development testing by evaluating the maturity of a technology or an invention. One tangible manifestation of innovation is in the context of value creation which can be practically actualized in the form of product development. The technological readiness level (TRL) approach described in this talk is one such framework to guide product development. Dr Lim Ren Chong also described the product-prototypes that had been developed in UBD which had made use of the research and innovation ecosystem currently available at UBD. Towards the end of his talk, he described a possible pathway for the commercialisation of the developed product prototypes and the ecosystem that could be used to achieve this.

6th March 2019

VISION OF UBD INNOVATION AND ENTERPRISE & PATENT LAW FOR ACADEMIC RESEARCH SCIENTISTS

Dr Nagender Aneja

Assistant Vice Chancellor of Innovation and Enterprise, Associate Professor Dr Mohammad Ayub Sadiq, gave a speech on plans and future direction of the Innovation and Enterprise Office (IE). In his talk, he introduced IE office and explained its main primary functions which are Education on Intellectual Property, Entrepreneurship, Patents Application, Prototype Development, Industry Outreach, Marketing and Licensing, Business development, Consultancies, and as UBD's focal point of contact with Industry. Dr Ayub aspires IE to achieve UBD's vision of a University of Innovation and Enterprise.

The second part of the talk focused on patents rights for researchers delivered by Dr Nagender Aneja, Senior Patent Manager at Innovation and Enterprise Office. In his talk, he addressed the challenges in identifying patentable subject matter and identifying different ways to protect and commercialise technology for those who are seeking patent protection for their invention, especially those who have filed patent applications and are looking for ways to commercialise their technology. The objective of his talk was to raise awareness among academic researchers on the main issues related to patents and to promote best practice-sharing in patent protection and enforcement.

24th April 2019

'INNOVATION: A CASE OF LEAPING IN AND OUT OF THE BOX'

Dr Hajah Asmah Husaini is a Nurse Lecturer at the Pengiran Anak Puteri Rashidah Sa'adatul Bolkiah Institute of Health Sciences, Universiti Brunei Darussalam (PAPRSB IHS, UBD). One of her many research interests includes innovation in nursing practice. In this talk, Dr Hajah Asmah shared her experience when breaking the boundaries of the traditional approach to nursing education and integrating 'innovation' and 'entrepreneurship' practices into them.


Dr Hajah Asmah Husaini

In healthcare, there is reluctance in matters involving innovation and entrepreneurship, especially in nursing practice. Some healthcare practitioners may view these skills as less rewarding and not as significant as clinical practices, and would require immediate results and a more tangible outcome.

In her talks, she addressed her challenges in integrating 'innovation' and 'entrepreneurial' aspects in her research and teaching. According to her, to be innovative and entrepreneurial, being 'multidisciplinary' is inevitable. By involving experts from other disciplines, she was able to overcome the many challenges she encountered. From her perspective, embedding innovation and entrepreneurship into the curriculum and daily teachings would foster hope and propel the higher education environment to embrace leadership, critical thinking and change as a new status quo.

FPT-UBD INNOVATION LAB CERTIFICATE PRESENTATION CEREMONY 4TH COHORT

4TH MAY 2019

On 4th May 2019, the FPT-UBD Innovation Lab presented certificates to sixteen (16) participants who had successfully completed the programme under the FPT-UBD Innovation lab. The participants were from the fourth cohort of the software development training programme that was conducted from 14th January to 4th May 2019; comprising of students from Universiti Brunei Darussalam (UBD), the FPT University (Vietnam), officers from various government sectors and international students.

The ceremony started with a welcoming remark by Pg Dr Emeroylariffion Abas, Deputy Director of Innovation and Enterprise, UBD. Also present at the event was Mr Cuong Hoang Van, the Director of International Affairs of FPT University, Vietnam.

During the ceremony, the participants presented their projects which they had completed during their 16 weeks program. These projects were developed to create solutions for problems that were presented to the participants by clients from the university and industries . There were four projects that were presented: a timetabling web-based software as a solution to the problems faced by the room booking office at UBD, a web-based and mobile app solution for medical practitioners and patients with diabetes to manage the condition and lifestyle, a face recognition login system, and a recommender system using big data.

The ceremony concluded with the presentation of certificates to the participants from Associate Professor Dr Mohammad Ayub Sadiq, the Assistant Vice Chancellor (Innovation and Enterprise), UBD.

The FPT-UBD Innovation Lab is a 16-week intensive project-based software development training program, jointly conducted by UBD and FPT University. FPT is the largest IT enterprise in Vietnam, owning seven ICT companies as well as the FPT university. In September 2017, UBD signed a collaboration agreement with FPT University to set up the FPT-UBD Innovation Lab where training and research are based on an industrial model with hands-on experience that is relevant to Industrial Revolution 4.0. The program is in line with UBD's Vision 2020 to be a University of Innovation and Enterprise.

The program is offered at every academic semester of UBD and so far, four cohorts had fully completed the programme. The next cohort will take place in the next semester; with the program starting on 12 August and ends on 30 November 2019. Application to participate in the upcoming cohort is now open. Application procedure and further information about the program can be found at the FPT-UBD website at https://innovation.ubd.edu.bn/fptubd. The lab also maintains an Instagram profile @fptubdinnolab that share some of the happenings in the lab.

FPT-UBD program participants with their certificates

ENTREPRENEURSHIP VILLAGE (EV) @ BETT ASIA 2019 IN KUALA LUMPUR

Adna Rahman, speaker for "Creating the Mindset of the Future"

On 12th and 13th March 2019, Mr Adna Shatriremie Hj Abd Rahman, Head of Entrepreneurship Village, was sent by Microsoft(Brunei) to deliver a talk at Bett Asia 2019 in Kuala Lumpur, Malaysia. The topic he delivered was "Creating the Mindset of The Future" and was shared with the 1,950 attendees present at the event.

Entrepreneurship Village's participation in the event was due to its commitment and focus in creating a generation of students with entrepreneurial mindset towards the aim of employment, especially in the Industrial Revolution 4.0. The methodologies and techniques used by EV have proven their effectiveness especially embedding entrepreneurship across all of its disciplines at the university. The event commenced with opening keynote speeches by Yang Berhormat Dr Mazlee Malik, Minister at the Ministry of Education, Malaysia and Yang Berhormat Dato Seri Setia Awang Haji Hamzah bin Haji Sulaiman, Minister at the Ministry of Education, Brunei Darussalam. Bett Asia's key theme this year is 'Building a change culture to deliver 21st century learning.'

Bett Asia is one of the important yearly education gathering covering the breadth of lifelong learning which brings together industry leaders, practitioners, professionals and inspirational figures to share ideas on how to support learning through technology. The event aimed to initiate discussions on the transformation of education and discover innovations that could inspire changes across the Asia Pacific region. EV's participation in this event aims to assist higher learning students to be more prepared for the industrial revolution 4.0, surrounding the area of skills, expertise and employability.

HEAD EV OFFICIALLY APPOINTED AS "BRUNEI MENTOR" FOR ENTREPRENEURS NETWORK (BMEN)

UBD Head of Entrepreneurship Village (EV), Adna Shatriremie Hj Abd Rahman, has been officially appointed as one of the Brunei Mentors for Entrepreneurs Network commencing in 2019. Due to his pragmatic involvement in the growth of startups and SMEs in the entrepreneurship ecosystem, Adna will be representing the academic higher learning institutions as an entrepreneurship educator. Through the platform of EV, Adna has raised and developed more than 200+ startups in the higher learning institution level in the country.

BMEN (Brunei Mentors for Entrepreneurs Network) is a platform where MSMEs and startups in Brunei Darussalam can connect with business mentors across the nation to give assistance in specific areas, expertise and knowledge in the running, managing and expanding of a business.

Adna joins the list of BMEN mentors who are CEOs and co-founders of prominent businesses and organizations such as Nicky Wong (GongCha, Bake Culture), Neeraj Gala (Innovation, Telbru), Javed Ahmad (CEO DARe), Aimi Ramlee (CEO Tyne Solutions), Dr Mona Kassim (Mubn Learning and Growth of Companies) and YB Hafimi Abdul Haadii (LVK Group of Companies) amongst many others. For more information, refer to: www.bruneimentors.com

UBD, through its commitment in entrepreneurship education and ecosystem, has set up the Entrepreneurship Village platform since 2014 in which its goal is to nurture and embed entrepreneurship elements across multidisciplinary disciplines as well as developing and creating startups, MSMEs and SMEs that would help the country veer towards a generation with a much stronger entrepreneurial mindset. For more updated news and events, follow EV at Instagram: EV.UBD

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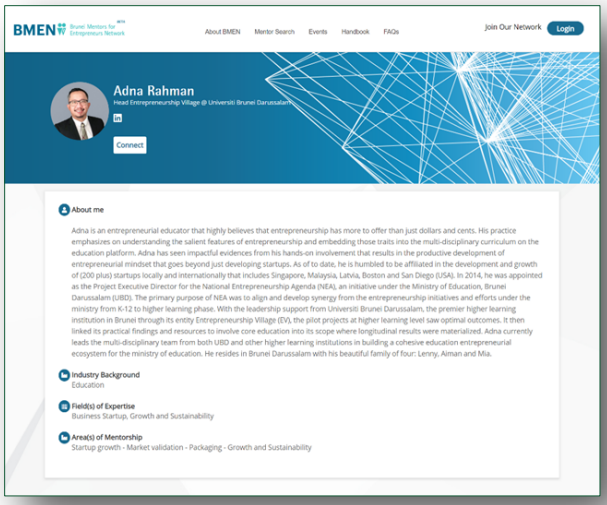

BMEN Mentor page of Adna Rahman

EVIDENCE-BASED CO-DESIGN STUDY

A COLLABORATION BETWEEN OAVCIE AND PAPRSB IHS

ARTICLE BY: AK MOHD ZULFIKRI AND DR HJH ASMAH HUSAINI

Ak Mohd Zulfikri , leading the discussion on the EBCD study.

Evidence-based Co-Design (EBCD) is a study approach that is used to holistically understand a certain product or service that is being provided. It allows the assessment of different aspects of safety, functionality, aesthetic and needs of a particular product and service. It involves gathering experiences from patients and professionals through activities such as interviews, observations and group discussions, to identify key points of a particular issue. This approach was developed for the National Health Services of the United Kingdom to develop simple solutions that offer better experience of treatment and care. However, it has also been widely used in many other contexts.

The maintenance of personal hygiene is an important aspect of a person's daily life. Water, as the main agent of hygiene, is used to cleanse ones self after using the washroom. However, from a nursing's perspective, some patients with limited mobility may have problems when accessing the washroom and using water. Some patients need to use adult diapers and 'bed pan' as a replacement in place of going to the washroom . Often, they would resort to the use of 'wet wipes' or 'water-soaked cotton balls' to clean themselves in bed.

Ak Mohd Zulfikri bin Pg Hj Zulkifli, a master's student in Nursing by research, under the supervision of Dr Hajah Asmah Haji Husaini, from the PAPRSB Institute of Health Science has designed a hygiene equipment that would innovate the current bed pan that have been used in the clinical and rehabilitation settings. The innovation is a 'toilet-functioning equipment' that is able to discreetly and tidily drain away bodily waste products by connecting the equipment to flowing water which enables users to clean themselves effectively. As part of his Masters project, Ak Mohd Zulfikri adapted the EBCD approach to verify the 'proof of concept' of the product design.

The EBCD activity was carried out at the PAPRSB IHS and Innovation and Enterprise Office on the 24th April 2019 and 2nd may 2019 where different groups of experts and service users (patients and nurses) were gathered for discussions and exchange ideas on the proposed product design. Some of the participants also included the elderly public, engineering students from the Faculty of Integrated Technologies (FIT), architects and designers from private establishments and Universiti Teknologi Brunei (UTB). Comments and suggestions were given based on individuals' expertise and experiences to ensure that the proposed product meets the required functionality, criteria and design. Students from the UBD's Entrepreneur Village were also invited to comment on the business aspects of the product. The multidisciplinary discussions led to ideas that could ensure the product's comfortability and functionality criteria are met from the perspectives of engineering, healthcare, safety and aesthetics.

The office of Innovation will continue to support these types of activities by providing platforms for innovative ideas to be discussed and brought forward.

Participants involved in the EBCD study. Participants involved come from multidisciplinary backgrounds.

INDUSTRY VISITS

9th January

SMARTER Brunei

17th January

CARe UBD

19th January

Daikyo Industrial Gas Sdn. Bhd.

20th February

BIBD Brunei

13th March

Progresif Cellular

14th March

Petroleum Brunei

19th March

TelBru

INDUSTRY VISITS

27th March

Mitsubishi Corporation Japan

1st May

Royal Brunei

30th April

DST Communications

VISITS TO OAVCIE

28th January

Panasonic Singapore to UBD

18th February

Brunei Shell Petroleum to UBD

5th May

BruIPO

JAN-JUNE 2019 FILED PATENT APPLICATIONS

18th March

U51: Membraneless Plant Microbial Fuel Cell for Generating Electricity

Applications: The invention generates electricity from plants.

The invention particularly relates to a membrane-less microbial fuel cell for generating electricity from plants. The microbial fuel cell comprising: a plurality of a pair of electrodes, wherein the pair of electrodes comprises one anode and one cathode; a liquid having a plant into which the pair of electrodes is configured to be positioned; and a component which utilizes the electricity produced. Further, the multiple pair of electrodes can be connected with each other to generate electricity as per the requirements. These pairs of electrodes are connected in parallel and/or in series. In the present invention, the effect of the distance between the electrodes, the surface area of the electrodes, the number of pair of electrodes, and the addition of the rooting powder is also evaluated.

Inventors: Malai Haniti Sheikh Abdul Hamid; Piyasiri Ekanayake; Chai Jia Rong; Lee Sek Khai; Chong Kim Onn; Hussein Taha

U64: Electrochemiluminescene Immunosensor for detecting Haptoglobin (Hp) and a method for detecting thereof

Applications: The invention detects Haptoglobin in biological samples with electrochemiluminescene immunosensor .

The present invention discloses an electrochemical immunosensor (ECL). The ECL is configured for detecting Haptoglobin in biological samples. The immunosensor includes nanocomposite of gold nanoparticles, single-walled carbon nanotubes, quantum dots, and chitosan. This nanocomposite modified CNFs-SPE-interface could also be used for the ECL based detection of other biomarkers and biomolecules, such as Immunoglobulin A and dopamine.

Inventors: Minhaz Uddin Ahmed; Mohammad Rizwan

JAN-JUNE 2019 FILED PATENT APPLICATIONS

18th March

U66: Synthesis of Zinc Oxide (ZnO) Nanoparticles using Costus woodsonii

Applications: The invention provides green synthesis of zinc oxide (ZnO) nanoparticles with significantly reduced band gap using extracts of Costus woodsonii for visible light harvesting.

The present invention refers to a green and biological method used to synthesize ZnO nanoparticles (NPs) with low band gap energy using zinc nitrate as a precursor and the aqueous leaf and bulb extracts of Costus woodsonii. In particular, zinc oxide nanoparticles with narrow bandgap energy were synthesized by first preparing an aqueous plant extract solution, wherein the plant extract was obtained from Costus woodsonii, then combining the extract with zinc nitrate hexahydrate ($Zn(NO_3)_2 \cdot 6H_2O$), followed by heating and stirring of the extract to form a paste, and finally calcination of the paste to form the zinc oxide nanoparticles.

Inventors: Mohammad Mansoob Khan; Tan Ai Ling; Mohammad Hilni Bin Harun Sani; Nurin Hayatus Saadah Binti Awg Hj Damit

U67: One-arm Wheelchair attachment

Applications: The invention discloses an attachment for mounting on a wheel chair to enhance personal mobility of individuals with constrained physical movements.

The present invention discloses an attachment for mounting on a wheelchair that can be tailored to the needs of patients with only one-functional arm and which is affordable, portable, flexible, adaptable and require manual operation

Inventors: Pg Emeroylariffion Pg Abas; Hirdy bin Othman

U68: A Method of Making Modified Charcoal for Selective Absorption

Applications: The invention discloses metal coated activated bamboo charcoal to remove heavy metals from wastewater or effluents produced in chemical processing or experimental laboratories

The present invention generally relates to a method of making modified bamboo charcoal for selective adsorption of heavy metals. It particularly relates to a method of preparing activated bamboo charcoal for the removal of heavy metals from wastewater or effluents produced in chemical processing.

Inventors: Masanizan Binti Abu; Narayana Thotagamuge Roshan Nilantha Kumara; Lim Chee Ming @Jimmy Lim; Abdul Hanif Mahadi; Lim Ren Chong; Suthee Wattanasiriwech; Natasha Ann Keasberry

JAN-JUNE 2019 GRANTED PATENT APPLICATIONS

U54: Method and System for Ad-Hoc Social Networking and Profile Matching

|Granted| 16th April

|Filed| 28th Dec '15

Applications: Mobile application to connect nearby users even in Airplane Mode (Prototype OffAT-Chat in Airplane Mode available at Google Play Store) .

The invention discloses a method to create a social network based on dynamic interests of users for ad-hoc social networking. A user of a mobile device can identify another user who is close by and has similar interests. Dynamic interests of the users can be extracted or identified based on mobile usage, browsing history, places traveled, and other user actions. Users are notified if another user who is similarly more than a threshold is present nearby. The system also facilitates communication between users by way of chatting, file sharing, image sharing, etc.

Inventors: Nagender Aneja and Sapna Gambhir

U19: Automating Weather Model Configurations

|Granted| 11th June

|Filed| 16th Nov '12

The invention is related to configuring weather model configurations based on characteristics of a target area. A weather model is run for different configurations to select weather model configuration for the target area.

Inventors: James Peter Cipriani (IBM), Thomas George (IBM), Saiful A. Husain, Brunei (UBD), Rashmi Mittal (IBM), Anthony P. Praino (IBM), Yogish Sabharwal (IBM), Vaibhav Saxena (IBM), Lloyd Alan Treinish (IBM)

FULL PROFESSORSHIP

Recently, our Assistant Vice Chancellor (Innovation and Enterprise), Professor Dr Mohammad Ayub Sadiq has been given full-professorship by Universiti Brunei Darussalam (UBD). Our heartiest congratulations to him.

Professor Mohammad Ayub Sadiq

'MANAGEMENT CHANGE'

In 2019, we welcome a new set of fresh faces and also said goodbye to a few of our colleagues. Pg Dr Emeroylariffion Abas joined our office in January 2019 and filled in the role of Deputy Director (Innovation and Enterprise). Dyg Hasnah binti Awg Haji Hassan and Mr Lim Kok Shien joined our office in August as Patent Officer and Innovation Officer, respectively. We also said our farewells to Nurul Ain binti Jaafar, who had been with our office for over three years and, Frankie Ong, who has been transferred to UBD School of Business and Economics (UBDSBE), as of August 2019.

We wish everyone the best of luck in their endeavours.

Hasnah Hassan

Mr Lim Kok Shien

INDUSTRY COLLABORATION INITIATIVES

One of the functions and initiatives of our office is to venture more into research collaborations with industries, governmental bodies as well as other universities. We have identified five (5) areas:

1) Research collaborations with mutual interests where the research can be beneficial to the participating parties;

2) Access to our patents; either from joint development or commercialisation;

3) Teaching and learning,

4) Joint Corporate Social Responsibility (CSR);

5) Other services that UBD may provide

For further information, please visit: https://innovation.ubd.edu.bn/industry

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