

2ND APPLIED INFORMATICS INTERNATIONAL CONFERENCE

AiIC 2020

Programme Book

*Empowering Applied Informatics
Research for Contemporary
Technological Trends*

AUGUST 12 - 13, 2020
ONLINE CONFERENCE



FOREWORD BY THE DEAN



Assalamu alaikum warahmatullahi wabarakatuh, Salam Sejahtera and Selamat Datang. Alhamdulillah, all praise is to Allah for HIS blessings

It gives me great pleasure to welcome you to the 2nd Applied Informatics International Conference (AilC2020), organised by the Faculty of Computer Science and Information Technology, Universiti Putra Malaysia (UPM). Applied Informatics Research is an established area that promote and enhance research in information sciences. It is interdisciplinary, emphasising the areas of Information System (IS) and Information Technology (IT) applications that can benefit the community of practice and society. The capabilities of information technology (IT) have advanced tremendously in the last fifty years. Technology and informatics-related processes and activities continue to evolve with each passing year. As an example in Healthcare, top emerging technologies are Machine learning, artificial intelligence, wearable and portable biosensors, BYOD and IoT, to tailor medical treatment to the individual characteristics of each patient, that will contribute to personalized medicine and healthcare. An array of new technology advancements, including 3-D printing, robotics, nanotechnology, genetic coding, and therapeutic options can permit more personalized and accessible patient care. New abilities are emerging which show great potential in supporting personalized, value-based care. Technologies such as artificial intelligence (AI), predictive analytics and cognitive computing all show great promise in helping health professionals make valuable predictions of trends, diagnoses and outcomes. By using advanced algorithms, data processing capabilities and IT systems can produce data driven predictions within seconds – with little to no human intervention. Predictive analytics backed by real time and historic data processing can identify risky medical conditions ahead of time. Predictive analytics uses technology and statistical methods to search through massive amounts of information, analyzing it to predict outcomes for individual patients future wellness.

Now, we are facing the greatest challenge the world has faced in decades, the COVID-19 global pandemic. Our lives are transformed on an unprecedented scale, the pandemic impacted every industry, and altered the course of not only organization but a Nation's growth. The pandemic has not slowed innovation, but it's amplifying it to historic levels. The need for innovation is greater than ever, driven by new challenges that are more disruptive than most have ever faced. The question is, how fast can you act? In line with the conference theme, we are experiencing new technology trends and exploring how they will impact people and organization in the post-COVID world. Demand is high for a truly shared digital experiences and digital communities, a good example of the impact of this pandemic is digital conference for AilC2020. The need for digital platforms and experiences will continue to accelerate in the future, as we seek alternatives to in-person gatherings in a post-COVID world. The challenge is to start building personalized, interactive, and shared virtual communities. As social distancing becomes the new normal, robots are moving from controlled environments to uncontrolled environments in search for new, "contact-less" solutions. Robots, IoT devices, and 5G will need increased data transfer rates and decreased latency. While today's robotics are building the foundation of a more automated future. Smart devices are becoming tools in the fight against COVID-19. Smart health devices can help identify symptoms, can monitor patients, and have tonnes of valuable health data that can save lives. Many robotic devices have been rapidly updated or repurposed for COVID-19, enforcing safe distancing in public spaces, dispensing hand sanitizer, and more.

The theme of AilC2020 is "Empowering Applied Informatics Research for Contemporary Technological Trends". The pandemic has made our conference theme more relevant and urgent than before. Opportunities in researches are huge to meet these challenges, as researchers will need to innovate, and invent, as people are depending on technology more than ever. Organising a conference such as AilC2020 must have certainly required a high degree of dedication teamwork among the members of organising committee. I thank them all for their loyalty and diligence in ensuring that the various aspects of the conference come together as a pleasant whole. I would also like to thank the keynote speakers, paper presenters and participants for their interest to share their invaluable research in the various field of information system to guarantee the successful of this conference. Last but not least, I would like to thank all involved whose generous support has facilitated us greatly in carrying this conference become in reality. On behalf of Faculty of Computer Science and Information Technology, Universiti Putra Malaysia, I would like to thank you all, once again, for your heartening support and participation in this conference.

Last but not least, I would like to record my utmost appreciation and gratitude to everyone who has made this conference a reality. This include the committee members, presenters, reviewers, participants, our sponsors, many more who have given their best effort to ensure the success of this conference. I hope you will enjoy and get the benefits from the conference and I look forward to meet you all again in the next AilC series of conference. InshaAllah.

Thank you.

"WITH KNOWLEDGE WE SERVE"

PROF. DR. RUSLI BIN HJ ABDULLAH
DEAN
FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY

FOREWORD BY THE CONFERENCE CHAIR



Assalamualaikum wbt.

Greetings everyone!

The 2nd Applied Informatics International Conference or AiIC2020 marks a history of its own. A history that not only witnessed the continuity from its first edition, but also the courage and determination in taking this conference virtual due to COVID-19 pandemic. Surely, we consider this a great success despite the multifaceted challenges in making AiIC2020 a reality.

Applied Informatics is about performing analysis of big data, by applying data mining techniques and tools, designing, developing, and deploying data analytics solutions. It is also about formalizing, modelling, and simulating complex systems and business processes, designing, deploying, and maintaining adaptive and intellectual systems. Looking at this range of capabilities, we can easily admit to its significance and advantage especially in the current situation of an unprecedented pandemic that has changed the landscape of the world today.

China has set a remarkable example of a country deploying the latest technologies to combat COVID-19 effectively. From positioning technologies, satellite monitoring, health sensors and apps, drones, robotics to mobile/mass surveillance, they have done it all and they succeeded! Whether we realized it or not, COVID-19 becomes a catalyst for these great technologies. Globally, almost all sectors were affected by this pandemic especially hospitality and travel. It is our role as researchers, inventors, and technologists to seize these opportunities and start contributing!

Our theme “Empowering Applied Informatics Research for Contemporary Technological Trends” seems to be rightly positioned amid this global pandemic. We believe we have set up a platform for sharing of solutions and brilliant ideas in Applied Informatics research area through AiIC2020 and by doing so, signifies our utmost support towards making significant changes that will benefit all. On behalf of the organizing team, I would like to welcome and congratulate all participants to AiIC2020. To all committee members of AiIC2020, I could not be grateful enough for your dedication and teamwork spirit. It has truly been a privilege having all of you as a team. Together, let us make this a momentous conference.

Regards,

SALFARINA ABDULLAH, *PhD.*

CHAIR AiIC2020

PROGRAMME

12 August 2020 (Wednesday - Conference Day 1)		
0900 – 0910	Opening Remark	
0910 – 0925	Welcoming Speech Conference Chair of AiIC2020	
0925 – 0940	Opening Ceremony Dean of Faculty of Computer Science and Information Technology, UPM	
0940 – 0950	Multimedia Presentation	
0950 – 1000	Photography session (via online platform)	
1000 – 1200	Keynote Speaker 1: Assoc. Prof. Dr. Mohamad Hanif Md Saad Deputy Director for Institute of IR4.0 Universiti Kebangsaan Malaysia (UKM) Title: Cloud Based IOT Platform For Connected Intelligent Systems : Perspectives and Challenges	
1400 – 1545	Parallel sessions A	
	Session A1: Session A2:	Each presenter is allocated 15 minutes presentation time including question and answer.
1545 – 1700	Parallel sessions B	
	Session B1: Session B2:	Each presenter is allocated 15 minutes presentation time including question and answer.

PROGRAMME

13 August 2020 (Thursday - Conference Day 2)		
0900 – 1030	Keynote Speaker 2: Professor Dr. Rose Alinda Alias Universiti Teknologi Malaysia (UTM) Title: Towards Curricular Reforms from COVID19 Pandemic Challenges and Opportunities	
1030 – 1245	Parallel sessions C	
	Session C1: Session C2:	Each presenter is allocated 15 minutes presentation time including question and answer.
1400 – 1630	Parallel sessions D	
	Session D1: Session D2:	Each presenter is allocated 15 minutes presentation time including question and answer.
1630 – 1700	Best Paper Award Annoucement and Closing Ceremony	

KEYNOTE SPEAKER



KEYNOTE SPEAKER 1: Assoc. Prof. Dr. Mohamad Hanif Md Saad
Deputy Director for Institute of IR4.0
Universiti Kebangsaan Malaysia (UKM)

Assoc. Prof. Dr Mohamad Hanif Md Saad's passion is in R&D and Commercialization of Intelligent Systems. Dr. Mohamad Hanif and his team of dedicated engineers and system developers has successfully designed, developed and implemented more than 30 desktop and Cloud based Intelligent Systems for Government Agencies, MNCs and SMEs in Malaysia, Singapore, Thailand and United Arab Emirates. Dr Mohamad Hanif is currently an Associate Professor and Researcher in UKM where he leads the CAISER Complex Event Processing Platform development team, an industrial grade desktop and Cloud based platform that can be used to develop desktop and Cloud based Intelligent Systems for industrial applications.

He is also the current Deputy Director for Institute of IR4.0, UKM and the Technology Advisor to Enomatrix Solutions Sdn Bhd. Dr Mohamad Hanif is the winner of MOSTI's Emerging Innovator Entrepreneur Award for Malaysia's Commercialization Year 2016 (MCY2016), UKM's BITARA Pengkomersilan Award(2016) and UKM's Anugerah Khas Kualiti – Pengkomersilan (2014).

KEYNOTE SPEAKER

KEYNOTE SPEAKER 2: Professor Dr. Rose Alinda Alias
Universiti Teknologi Malaysia (UTM)



Rose Alinda Alias is a Professor of Information Systems Management at Universiti Teknologi Malaysia. She is currently Head of the Information and Service Systems Innovation (ISSI) Research Group at the UTM Azman Hashim International Business School (AHIBS), as well as Senior IT Associate Fellow at UTM Center for Information and Communications Technology (CICT). Prof Rose Alinda Alias is also the Founding President of the Persatuan Sistem Maklumat Malaysia (MyAIS) and President of Malaysia Chapter for the Association for Information Systems (AIS).

She was the Chairperson of the Malaysia Ministry of Higher Education (MOHE) Task Force for Academic Programme Transformation for 4th Industrial Revolution in 2017, which developed Malaysia's Future Ready Curriculum 4.0 Framework. She also headed the Data Analytics Project that developed the data warehouse and business intelligence dashboards for Ministry of Higher Education (MOHE) of Malaysia in 2018-2019.

PARALLEL SESSION PROGRAMME

DAY 1

12 August 2020 (SESSION A & SESSION B)

PARALLEL SESSION A/ Track 1: ALLM- Session A1

Session Chair: Assoc. Prof. Dr. Salmi Baharom

Time	Paper ID	Paper Title
1400 - 1415	PID-43	Towards Integrating Six Sigma Approach: Service Level Agreement Measurement and Monitoring (A Malaysian It Outsourcing Case Study) <i>Whee Yen Wong, Chan Wai Lee, Kim Yeow Tshai and Toong Hai Sam</i>
1415 - 1430	PID-69	The Use of Repeatable Components in Hybrid Models to Enhance Software Project Management Success <i>Mohanarajah Seenivasagam and Marzanah A Jabar</i>
1430 - 1445	PID-72	A Proposed Integration Architecture for University Research Data Repository to Support University and University Hospital on Medical Digital Image Management and Analytics Using Hadoop <i>Fatimah Sidi, Iskandar Ishak, Rusli Abdullah, Yusmadi Yah Jusoh, Azizi Sabron, Shahril Iskandar Amir, Saiful Ramadhan Hairani and Ahmad Sobri Muda</i>
1445 - 1500	PID-73	Fakeheader: Tool to Detect Deceptive Online News Based on Misleading News Headlines and Contents <i>Iskandar Ishak, Normala Che Eembi Jamil, Fatimah Sidi and Lilly Suriani Affendey</i>
1500 - 1515	PID-01	Librarians Skills and Competencies for Scholarly Communication and Repository Management in Nigeria <i>Usman Ahmed Adam and Kiran Kaur</i>
1515 - 1530	PID-10	Exploring The Trend of Spatial Crowd-Sourcing Assignment: A Systematic Literature Review <i>Masnida Hussin, Shirley Salimun, Rohaya Binti Latip and Shamala K. Subramaniam</i>

PARALLEL SESSION PROGRAMME

DAY 1		
12 August 2020 (SESSION A & SESSION B)		
PARALLEL SESSION A/ Track 2: ITSIS- Session A2		
Session Chair: Assoc. Prof. Dr Sa'adah Hassan		
Time	Paper ID	Paper Title
1400 - 1415	PID-16	Psychology Software Tool (PST) For Specific Language Impairment Person <i>Yan Huan Ch'Ng, Mohd Azam Osman and Hui Ying Jong</i>
1415 - 1430	PID-67	Investigation of Electrical Interference Towards Phosphene-Based Walking Support System <i>Manami Kanamaru, Tan Phan Xuan and Eiji Kamioka</i>
1430 - 1445	PID-02	Dr Miner: An Application of Auto Detecting Diabetic Retinopathy Using Auto Colour Correlogram and Bagging <i>Chew-Wai Yap, Kai-Jie Lim, Keng-Hoong Ng and Kok Chin Khor</i>
1445 - 1500	PID-04	Cultivating the ideal teamwork through real software development project experience <i>Salfarina Abdullah, Yusmadi Yah Jusoh, Sazly Anuar and Marzanah A Jabar</i>
1500 - 1515	PID-12	Test Suite Reduction and Prioritization Framework in Regression Testing <i>Samaila Musa and Abu Bakar Md Sultan</i>
1515 - 1530	PID-14	<i>IoTContact: A Strategy for Predicting Contagious IoT Nodes in Mitigating Ransomware Attacks</i> <i>Mohammed Ibrahim, Mohd Taufik Abdullah, Azizol Abdullah and Thinagaran Perumal</i>

PARALLEL SESSION PROGRAMME

DAY 1		
12 August 2020 (SESSION A & SESSION B)		
PARALLEL SESSION B/ Track 1: AIIM- Session B1		
Session Chair: Dr. Jamilah Din		
Time	Paper ID	Paper Title
1545-1600	PID-15	Identified Human Factors in Knowledge Management in the Context of Knowledge sharing <i>Julius Olusegun Oyelami and Azleena Mohd Kassim</i>
1600-1615	PID-28	On Understanding the Methodologies Adopted in KMS Studies Within the Context of Quality Strategy <i>Mohammad Fakhrulnizam Mohammad, Rusli Abdullah, Marzanah A Jabar and Rozi Nor Haizan Nor</i>
1615-1630	PID-37	Influencing Factors for Internet Banking Adoption Using Analytical Hierarchy Process (AHP) Approach <i>Khairi Azhar Aziz, Marzanah A. Jabar, Salfarina Abdullah, Rozi Nor Haizan Nor and Nur Ilyana Ismarau Tajuddin</i>
1630-1645	PID-42	Concept-based Recommendation System for Finding Serendipity <i>Kodai Tsukahara, Eiji Kamioka and Phan Xuan Tan</i>
1645-1700	PID-47	Design and Evaluation of User Interface Design of Mobile Heart Monitoring Application <i>Muhammad Sobri, Mohamad Taha Ijab and Norshita Mat Nayan</i>

PARALLEL SESSION PROGRAMME

DAY 1		
12 August 2020 (SESSION A & SESSION B)		
PARALLEL SESSION B/ Track 2: ITSIS- Session B2		
Session Chair: Dr. Azrina Kamaruddin		
Time	Paper ID	Paper Title
1545-1600	PID-24	Classifying Multilingual Text in Quality Assurance <i>Sze Pei Tan and Tien Ping Tan</i>
1600-1615	PID-29	Green Software Process Assessment: A Conceptual Model <i>Siti Rohana Ahmad Ibrahim, Jamaiah Yahaya and Hasimi Sallehudin</i>
1615-1630	PID-35	The Internet of Things Readiness in Public Organization: Descriptive Analysis <i>Nurazeen Maarop, Ganthan Narayana Samy and Norshaliza Kamaruddin</i>
1630-1645	PID-36	<i>Ambidetector</i> : An Ambiguous Software Requirements Specification Detection Tool <i>Mohd Hafeez Osman and Mohd Firdaus Zahrin</i>
1645-1700	PID-45	The Development of Mobile Augmented Reality Application to Facilitate High School Students with Various Learning Strategies in Learning History <i>Azrina Kamaruddin, Jin-Zhi Low and Muhammed Dzulkiflee Hamzah</i>

PARALLEL SESSION PROGRAMME

DAY 2

13 August 2020 (SESSION C & SESSION D)

PARALLEL SESSION C/Track 1: ALLM- Session C1

Session Chair: Dr. Khaironi Yatim Sharif

Time	Paper ID	Paper Title
1030 - 1045	PID-13	Evaluation of Student's Interest in Lectures using Facial Expression Recognition <i>Arshaad Mohiadeen, Mohd Azam Osman and Abdullah Zawawi Talib</i>
1045 - 1100	PID-53	Experts Review on Factors to Consider When Designing Virtual Environment for Stress Therapy <i>Farhah Amaliya Zaharuddin, Nazrita Ibrahim and Azmi Mohd Yusof</i>
1100 - 1115	PID-56	Project Scheduling Management in The Software Industry <i>Rozi Nor Haizan Nor, Yusmadi Yah Jusoh, Farihan Che Mohamed, Sawalrudin Abu Hassan and Mohd Fahmi Mohd Shari</i>
1115 - 1130	PID-64	Kelantan and Sarawak Malay Dialects: Parallel Dialect Text Collection and Alignment Using Hybrid Distance-Statistical-Based Phrase Alignment Algorithm <i>Jasmina Khaw Yen Min, Tien-Ping Tan and Bali Ranaivo-Malançon</i>
1130 - 1145	PID-71	Social Support in Massive Open Online Courses: A Literature Review <i>Veronica Clement Buyut, Salfarina Abdullah, Rusli Abdullah and Rodziah Atan</i>
1145 - 1200	PID-11	Translating Idioms Using Paraphrasing, Machine Translation and Rescoring <i>Tien Ping Tan and Jia Jun Dong</i>
1200 - 1215	PID-26	Paraphrasing Chinese Idioms: Paraphrase Acquisition, Rewording and Scoring <i>Jia Jun Dong and Tien-Ping Tan</i>

PARALLEL SESSION PROGRAMME

DAY 2

13 August 2020 (SESSION C & SESSION D)

PARALLEL SESSION C/Track 2: ITSIS- Session C2

Session Chair: Dr. Mohamad Sufri Muhammad

Time	Paper ID	Paper Title
1030-1045	PID-22	The Limitations of Cross-Site Scripting Vulnerabilities Detection and Removal Techniques <i>Isatou Hydara, Abu Bakar Md Sultan, Hazura Zulzalil and Novia Admodisastro</i>
1045-1100	PID-49	User Personas: Discovering Factors That Influence Genz's Sedentary Lifestyle for The Development of A Mobile Exergame Design Model <i>Hasdina Lynn Hashim, Azrina Kamaruddin, Azrul Hazri Jantan and Puteri Suhaiza Sulaiman</i>
1100-1115	PID-23	Selection of Trusted Organic Food Sellers on Instagram Using Fuzzy Analytic Hierarchy Process <i>Ramona Ramli, Ahmad Zulqarnain Mohamed Ibrahim, Asmidar Abu Bakar and Abdul Hadi Mohamed</i>
1115-1130	PID-54	Embedding Crowd-vote as Knowledge Source to Support Decision Making on University Program Selection <i>Sarerusaenye Ismail and Shahrinaz Ismail</i>
1130-1145	PID-59	Laboratory Instruments' Produced Scientific Data Standardization Through The Use Of Metadata <i>Nur Adila Azram and Rodziah Atan</i>
1145-1200	PID-62	Mobile Time Tracker in Transportation Service: A Survey <i>Chee Ling Thong, Lee Yen Chaw, Su Mon Chit and Chiu Yi Lee</i>
1200-1215	PID-75	Usability Testing of DisleksiaBelajar Mobile App for Assisting Dyslexia Junior School Students to Learn the Malay Language <i>Novia Admodisastro, Chan Kai Fung, Siti Suhaila Abdul Hamid, Azrina Kamaruddin, Sa'adah Hassan</i>
1215-1230	PID-76	An Experimental Evaluation of The Dynamic Service Adaptation Framework in Mobile Cloud Learning <i>Sufri Muhammad, Novia Admodisastro, Norhayati Mohd Ali, Hafeez Osman</i>
1230-1245	PID-77	Safety Features and Inventory Management for Vending Machine Using IoT <i>Sazly Anuar, Danial Mirza Madrawi and Farah Hana Mukhtar</i>

PARALLEL SESSION PROGRAMME

DAY 2

13 August 2020 (SESSION C & SESSION D)

PARALLEL SESSION D/ Track 1: AIIM- Session D1

Session Chair: Dr. Ng Keng Yap

Time	Paper ID	Paper Title
1400-1415	PID-38	Extended User Experience Model to Support Web Accessibility and Emotional Qualities Among Visually Impaired Users <i>Azrul Hazri Jantan, Mariam Azwa Yazid and Siti Azreena Mubin</i>
1415-1430	PID-46	Climate Change: Climate Literacy and Response Among USM Students <i>Wan Nur Syamilah Wan Ali and Nasuha Lee Abdullah</i>
1430-1445	PID-50	An Enhanced Model For E-Service Quality of Mobile Banking <i>Jude N. Owuamanam, Salfarina Abdullah, Yusmadi Yah Jusoh, Noraini Che Pa</i>
1445-1500	PID-70	Conceptual Framework of kXpert: Knowledge-based Information Retrieval for Expert Profiling <i>Shahrinaz Ismail and Afifah Aliah Ahmad Suhaimi</i>
1500-1515	PID-09	Fuzzy-Based Trust Model to Evaluate Customer Trust towards Online SNSs Sellers <i>Ramona Ramli, Asmidar Abu Bakar, Roslan Ismail and Abdul Hadi Mohamad</i>
1515-1530	PID-68	Classifying Social Commerce Features Toward Improving A Social Commerce Website <i>Norshaharizan Puteh, Jamilah Din and Salmi Baharom</i>
1530-1545	PID-39	Leveraging Enterprise Architecture for Digital Transformation Adaptation Challenges in Higher Education Institutions <i>Wan Faezah Abbas, Mohd Naz'ri Mahrin and Nurazeen Maarop</i>
1600-1615	PID-55	<i>Tina</i> : Empowerment Based Design for Domestic Violence Survivors Mobile Application <i>Emma Nuraihan Mior Ibrahim, Azurawati Abdul Halim and Fariza Hanis Abdul Razak</i>

PARALLEL SESSION PROGRAMME

DAY 2

13 August 2020 (SESSION C & SESSION D)

PARALLEL SESSION D/ Track 2: ITSIS- Session D2

Session Chair: Dr. Mohd Hafeez Osman

Time	Paper ID	Paper Title
1400-1415	PID-40	Enhancing The Transparency of Student Merit System Using QR Code Technology: A Smart Campus Initiative <i>Salfarina Abdullah, Muhammad Azhad Hilmi Muhammad Aiman Hilmi, Sazly Anuar and Masnida Hussin</i>
1415-1430	PID-48	An Approach for Selecting The Suitable Requirement Elicitation Technique <i>Jamilah Din, Ibrahim Hassan Hussein, Salmi Baharom and Muhammed Basheer Jasser</i>
1430-1445	PID-52	The Study of Digital Identity of Mobile Users Based on Android Dataset <i>Azizul Rahman Mohd Shariff</i>
1445-1500	PID-60	Towards Adopting Software Quality Assurance in Agile Development Methodology <i>Saadah Hassan and Rosnani Shuib</i>
1500-1515	PID-65	Code Analysis Tool to Detect Extract Class Refactoring Activity In VB.NET Classes <i>Khaironi Yatim Sharif, Mohd Hafeez Osman and Mustafa G H Muftah</i>
1515-1530	PID-74	Non-Functional Requirement Detection Using Machine Learning <i>Mar Yah Said and Hazlina Shariff</i>
1530-1545	PID-51	nCODET: A Tool for Novice Developer to Detect Untestable Code <i>Saiful Bahri Hisamudin, Salmi Baharom and Jamilah Din</i>
1615-1630	PID-25	Using Computer Game-Based Student Response Systems to Enhance Japanese Students' English Language Experience <i>Si Na Kew, Tieng Wei Koh and Tze Wei Liew</i>

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