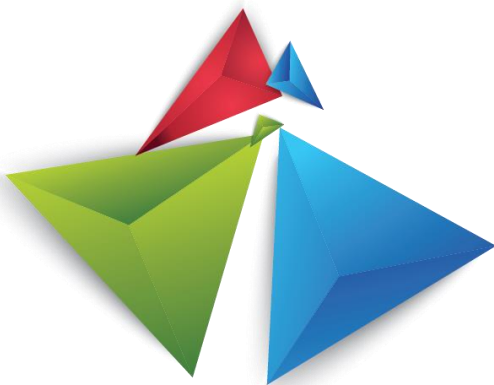




International Conference
on Intelligent and Interactive Computing

2018



08 & 09 August 2018
Melaka, Malaysia

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Foreword

Assalamualaikum wrt.wbt. and Salam Sejahtera.

Alhamdulillah, praise be to Allah SWT the Almighty for his grace, has enabled all of us to be gathered for important event of The We are deeply honored to be given the opportunity to organize this conference for the second time after the success of the first which was held in 2015. Thank you for the continuous trust and support towards Universiti Teknikal Malaysia Melaka (UTeM).

On behalf of UTeM and the organizing committee, I would like to extend my special welcome to all the delegates and participants to the IIC 2018 and welcome to the Historical City of Melaka, a city proclaimed as UNESCO's world heritage site where much of its 756 years of glorious history bearing the imprints of the Portuguese, Dutch and British which are still visible through the architecture, heritage buildings and colonial structures.

Understandably, we stand on the brink of a technological revolution, the Industrial Revolution 4.0. This conference serves as a platform for academia and industry practitioners to gain knowledge and share their experiences in tackling the waves of Revolution 4.0. Presenting the theme, "Intelligent and Immersive Computing towards Industrial Revolution 4.0" which is indeed timely, considering that such collaboration serves as a platform to produce highly creative and innovative human capital for the country to be part of the Revolution 4.0. While the enthusiasm to innovation is continuously encouraged, the effects and changes from innovation to economy and humanities should not be disregarded.

With the enthusiasm and support from all the presenters, participants, and the commendable effort from the organizing committee, I am fully confident that this conference will culminate into another fruitful venture. I take this opportunity to wish all participants a successful presentation, discussion and a pleasant meeting of minds. Last but not least, I bid you a pleasant stay and a meaningful experience in Melaka.

Thank you.

Y. Bhg. Prof. Datuk Ts. Dr. Shahrin Bin Sahib @ Sahibuddin
Vice Chancellor,
Universiti Teknikal Malaysia Melaka (UTeM).

Foreword

Assalamualaikum wrt.wbt. and Salam Sejahtera.

Welcome to International Conference on Intelligent and Interactive Computing (IIC 2018) in Historical City of Malacca, Malaysia on August 08-09. IIC2018 is jointly organized by the Department of Intelligent Computing and Analytics (ICA) and the Department of Interactive Media (MI), Faculty of Information and Communication Technology (FTMK), Universiti Teknikal Malaysia Melaka (UTeM). It is an academic based conference with themed "Intelligent and Immersive Computing Towards Industrial Revolution 4.0". This conference brings together researchers, engineer, developers and practitioners from academia and industry working in all interdisciplinary areas of intelligent and interactive computing to share their experiences, and to exchange and cross-fertilize their ideas. The aim of IIC 2018 is to serve as a forum for the dissemination of state-of-art research and development of intelligent and interactive computing technology, robotics, automation and its applications.

We received 98 papers from many countries, of which 60 have been accepted. This means our acceptance rate is 61%. All accepted papers will be published in Springer LNNS. All papers presented during the conference will have the opportunity to be considered for publication in Scopus-indexed journal. All submissions were reviewed at least by three reviewers. We are convinced that the quality and diversity of the topics covered will satisfy both the attendees and readers. We are pleased to announce these outstanding and experience three keynote speakers and one special speaker:

- Prof. Dr. Witold Pedrycz (University of Alberta, Canada)
- Prof. Dr. Hiroyuki Iida (Japan Advanced Institute of Science and Technology, JAIST)

We express our sincere thanks to our Patron: Prof. Datuk Dr. Shahrin bin Sahib@Sahibuddin, Vice Chancellor, Universiti Teknikal Malaysia Melaka, advisors, technical program committee and local organizing committee members who reviewed the papers and made IIC 2018 a very successful conference. We will be welcoming you in Melaka and hope that you will enjoy the conference programme.

General Chairs

Associate Professor Dr. Sharifah Sakinah binti Syed Ahmad
Department of Intelligent Computing and Analytics (ICA)
Dr. Zulisman bin Maksom,
Department of Interactive Media (MI)
Fakulti Teknologi Maklumat dan Komunikasi (FTMK)
Universiti Teknikal Malaysia Melaka (UTeM)

About IIC2018

IIC2018 is co-organized by the Department of Interactive Media and Department of Intelligent Computing and Analytics, Faculty of Information and Communication Technology (FTMK), Universiti Teknikal Malaysia Melaka (UTeM). The theme for this conference is "Intelligent and Immersive Computing Towards Industrial Revolution 4.0".

Since the previous IIC 2015 was such a success conference, the organizers would like to promote IIC 2018 to the world especially in the Southeast Asian community. Hence, the IIC 2018 aims to gather academics such as postgraduate students as well as prominent scholars to share valuable knowledge and expertise in related disciplines. Moreover, this conference opens up opportunities for the Industry to share their willingness to tackle the waves of Revolution 4.0. The Industrial 4.0 covers the discovery of a number of new technologies that will spur progress and shape the modern world landscape and its cumulative effect on the world.

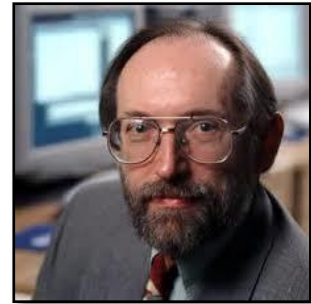
All accepted papers will be published in Springer LNNS Series and will be indexed in ISI Proceedings, EI-Compendex, DBLB, SCOPUS, Google Scholar and Springerlink. All papers presented during the conference will have the opportunity to be considered for publication in the following journals. Those that are considered to be appropriate for publication after peer review will be published for free of charge.

1. Journal of Telecommunication, Electronic and Computer Engineering (JTEC)-scopus index
2. Journal of Advanced Manufacturing Technology (JAMT)- scopus index
3. International Journal of Synthetic Emotions (IJSE) - DBLP and ACM-DL
4. Journal of Universal Computer Science (J.UCS) - scopus index

Keynote Speaker1

Prof Dr. Witold Pedrycz

Department of Electrical and Computer Engineering, University of Alberta, Canada



Witold Pedrycz (IEEE Fellow, 1998) is Professor and Canada Research Chair (CRC) in Computational Intelligence in the Department of Electrical and Computer Engineering, University of Alberta, Edmonton, Canada. He is also with the Systems Research Institute of the Polish Academy of Sciences, Warsaw, Poland. In 2009 Dr. Pedrycz was elected a foreign member of the Polish Academy of Sciences. In 2012 he was elected a Fellow of the Royal Society of Canada. Witold Pedrycz has been a member of numerous program committees of IEEE conferences in the area of fuzzy sets and neurocomputing. In 2007 he received a prestigious Norbert Wiener award from the IEEE Systems, Man, and Cybernetics Society. He is a recipient of the IEEE Canada Computer Engineering Medal, a Cajastur Prize for Soft Computing from the European Centre for Soft Computing, a Killam Prize, and a Fuzzy Pioneer Award from the IEEE Computational Intelligence Society.

His main research directions involve Computational Intelligence, fuzzy modeling and Granular Computing, knowledge discovery and data mining, fuzzy control, pattern recognition, knowledge-based neural networks, relational computing, and Software Engineering. He has published numerous papers in this area. He is also an author of 15 research monographs covering various aspects of Computational Intelligence, data mining, and Software Engineering.

Dr. Pedrycz is intensively involved in editorial activities. He is an Editor-in-Chief of Information Sciences, Editor-in-Chief of WIREs Data Mining and Knowledge Discovery (Wiley), and Int. J. of Granular Computing (Springer). He currently serves on the Advisory Board of IEEE Transactions on Fuzzy Systems and is a member of a number of editorial boards of other international journals.

Keynote Speaker 2

Prof. Dr. Hiroyuki Iida

Professor, School of Information Science, Japan Advanced Institute of Science and Technology (JAIST)



Professor Dr. Hiroyuki Iida is a Japanese computer scientist and computer games researcher with focus on Game-refinement theory, Opponent Model Search and Computer Shogi. Hiroyuki Iida is Professor at Japan Advanced Institute of Science and Technology (JAIST) and head of the games laboratory. Before, he was affiliated with the Shizuoka University, Hamamatsu and was postdoctoral researcher at Maastricht University. He received his Ph.D on Heuristic Theories on Game-Tree Search from Tokyo University of Agriculture and Technology, Tokyo.

Hiroyuki Iida is a professional 6-dan Shogi player, and co-author of the Shogi program Tacos, the four-times Gold medal winner at Computer Olympiads. Dr. Hiroyuki Iida has been an enthusiasm researcher in the domains such as computer games and entertainment computing, while acting as important roles of international activities such as conference chair, program chair and journal editor. He has also organized Mind Sports Computer Olympiad as the secretary/treasurer of ICGA (International Computer Games Association) for each year since early 2000.

He supervised many master and PhD students until now, while acting as PhD committee member (external assessment) for PhD candidates in western countries such as Maastricht University and Tilburg University in the Netherlands. He also served as an external assessment for international research funding in western countries such as Canada and the Netherlands.

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Dr. Hamzah bin Asyrani
Dr. Ibrahim bin Ahmad
Dr. Zeratul Izzah binti Mohd Yusof

Showcase

Mr. Nazreen bin Abdullasim
Mr. Ahmad Fadzli Nizam bin Abdul Rahman

IIC2018 Conference Program

Day 1 WEDNESDAY 8 AUGUST 2018		
Time	Program	Place
7.30 am - 8.30 am	Registration	Secretariat
8.30 am - 8.50 am	Welcome Message	Ballroom A
9.00 am - 9.50 am	Keynote Speaker 1	Ballroom A
10.00 am - 10.45 am	Opening by Vice Chancellor	Ballroom A
10.45 am - 11.00 am	Tea Break	Hallway
11.00 am - 1.30 pm	Parallel Session 1	Ballroom A & Straits 4
1.30 pm - 2.30 pm	Lunch	Makan Kitchen Level 12
2.30 pm - 5.00 pm	Parallel Session 2	Ballroom A & Straits 4
5.00 pm - 5.30 pm	Tea Break	Hallway
5.30 pm	Free and easy activities	

Day 2 THURSDAY 9 AUGUST 2018		
Time	Program	Place
7.30 am - 8.15 am	Registration	Secretariat
8.30 am - 9.30 am	Keynote Speaker 2	Ballroom A
9.30 am - 9.45 am	Tea Break	Hallway
9.50 am - 10.30 am	Special Talk	Ballroom A
10.30 am - 1:30 pm	Parallel Session 3	Ballroom A & Straits 4
1.30 pm - 2.30 pm	Lunch	Makan Kitchen Level 12
2.30 pm - 5.00 pm	Parallel Session 4	Ballroom A & Straits 4
5.00 pm - 6.00 pm	Tea Break & Closing Ceremony	Hallway

IIC2018 Parallel Session Schedule

8th August, Wednesday – Parallel Session 1 Ballroom A	
Chair: Dr. Zeratul Izzah Binti Mohd Yusoh	
Track: Artificial Intelligence	
11.00am-11.20am	#5: Dynamic Solution Probability Acceptance within the Flower Pollination Algorithm for t-way Test Suite Generation. Kamal Z Zamli, Abdullah B Nasser and Bestoun S. Ahmed.
11.20am-11.40am	#10: Building Knowledge-Based Dashboard: An E-Government Concept in the Demand Side Perspective towards the Advancement of the Community in Manila. Angelique Lacasandile and Jasmin Niguidula.
11.40.am-12.00pm	#58: Aggregating Multiple Decision Makers' Judgement. Jeremy Yap, Chiung Ching Ho and Choo Yee Ting.
12.00pm-12.20pm	#65: A Novel Kohonen Self-Organizing Maps using Exponential Decay Average Rate of Change for Color Clustering. Edwin Galutira, Arnel Fajardo and Ruji Medina.
12.20pm-12.40pm	#68: Affinity Propagation based on Intuitionistic Fuzzy Similarity Measure. Omar Al-Akash, S. Sakinah S. Ahmad and Mohd Sanusi Azmi.
12.40pm--01.00pm	#70: Weight-Adjustable Ranking for Keyword Search in Relational Databases. Chichang Jou and Sian Lun Lau.
01.00pm-01.20pm	#72: Enhanced Hash Algorithm Using a Two-Dimensional Vector to Improve Data Search Performance. Bobby Eclarin, Arnel Fajardo and Ruji Medina.
01.20pm-01.40pm	#84: Truth Discovery Using the Trustchecker Algorithm On Online Quran Tafseer. Zaid Alaaraji and Sharifah Sakinah Syad Ahmad.

8 th August, Wednesday – Parallel Session 1 Straits 4	
Chair: Pn Fauziah Binti Kasmin	
Track: Image Processing	
11.00am-11.20am	#29: A Simple Edges Extraction Method from Complex Digital Images (EEMI). Abbas Al-Ghaili, Hairoladenan Kasim, Marini Othman and Zainuddin Hassan.
11.20am-11.40am	#67: Face Recognition using Texture Features and Multi-Layer Perceptron. Nanik Suciati, Chastine Fatichah, Wijayanti Nurul Khotimah, Radityo Anggoro and Henning Titi Ciptaningtyas
11.40.am-12.00pm	#82: Detection of Eye Movements based on EEG Signals and the SAX algorithm. Shanmuga Pillai Murutha Muthu, Sian Lun Lau and Chichang Jou.
12.00pm-12.20pm	#92: The Effect of Supervised Region of Interest against Edge Detection Method for Iris Localisation. Zuraini Othman.
12.20pm-12.40pm	#21: Tracking Coastal Change over Kuala Terengganu Using Landsat. Dr Abd Rahman Mat Amin, Fathinul Najib Ahmad Sa'Ad, Adida Muhammad, Wan Farahiyah Wan Kamaruddin, Associate Professor Dr Asmala Ahmad, Nor Haniza Bakhtiar Jemily and Dr Mohd Rivaie Mohd Ali.
12.40pm-01.00pm	#98: Classification of Landsat 8 Satellite Data Using Unsupervised Methods. Afirah Taufik and S. Sakinah S. Ahmad.
01.00pm-01.20pm	#84: Truth Discovery Using the Trustchecker Algorithm On Online Quran Tafseer. Zaid Alaaraji and Sharifah Sakinah Syad Ahmad.

8th August, Wednesday – Parallel Session 2 Ballroom A	
Chair: Dr. Ngo Hea Choon	
Track: Artificial Intelligence	
2.30pm-2.50pm	#86: Volunteer Ranking and Selection using Fuzzy Delphi Method. Nurulhasanah Mazlan, Sharifah Sakinah Syed Ahmad and Massila Kamalrudin.
2.50pm-3.10pm	#35: A Divide and Conquer Strategy for Adaptive Neuro-Fuzzy Inference System Learning using Metaheuristic Algorithms. Mohd Najib Mohd Salleh, Kashif Hussain and Noureen Talpur
3.10pm-3.30pm	#37: The Effect of Two Term Parameters on the Performance of Third Order Neural Network on Medical Classification problems. Nazri Naw, Khairina Mohamad Roslan and Shahrul Bariah Mustaffa.
3.30pm-3.50pm	#50: Stock market forecasting model based on AR(1) with Adjusted Triangular Fuzzy Number using Standard Deviation approach for Asean Countries. Muhammad Shukri Che Lah, Nureize Arbaiy and Riswan Efendi.
3.50pm-4.10pm	#56: An Offshore Equipment Data Forecasting System. Ahmad Syazwan Sahdom, Alan Cheah Kah Hoe and Jaspaljeet Singh Ranjit Singh.
4.10pm-4.20pm	#3: Publication Model for Academic Talent Based On Apriori Technique. Zulaiha Ali Othman, Noraini Ismail, Roliana Ibrahim and Hamidah Jantan.
4.20pm-4.40pm	#74: Electricity Price Forecasting Using Neural Network with Parameter Selection. Nik Nur Atira Nik Ibrahim, Intan Azmira Wan Abdul Razak, Siti Syakirah Mohd Sidin and Zul Hasrizal Bohari.

8 th August, Wednesday – Parallel Session 2 Straits 4	
Chair: Dr. Abdul Syukor Bin Mohamad Jaya	
Track: Machine Learning & Optimization	
2.30pm-2.50pm	#14: Improved Ozone Pollution Prediction using Extreme Learning Machine with Tribas Regularization Activation Function. Noraini Ismail and Zulaiha Ali Othman.
2.50pm-3.10pm	#1: EMG features evaluation for gait event detection using machine learning approach. Nurhazimah Nazmi, Mohd Azizi Abdul Rahman, Yamamoto Shin-Ichiroh and Siti Anom Ahmad.
3.10pm-3.30pm	#19: Design of Automated Computer Aided Classification of Brain Tumor using Deep Learning. Nur Ali and Syafeeza A. Radzi.
3.30pm-3.50pm	#4: Software Module Clustering based on the Fuzzy Adaptive Teaching Learning based Optimization Algorithm. Kamal Z Zamli, Fakhruddin, Nazirah Ramli and Bestoun S. Ahmed.
3.50pm-4.10pm	#24: Application of Bat Algorithm in Carbon Nanotubes Growing Process Parameters Optimization. Muath Ibrahim Mohammad Jarrah, Abdul Syukor Mohamad Jaya, Mohd Asyadi Azam, Zakaria N. Alqattan, Mohd Razali Muhamad and Rosni Abdullah.
4.10pm-4.20pm	#30: A New Variable Strength Interaction Strategy based on the Cuckoo Search Algorithm. Kamal Z Zamli and Abdullah B. Nasser.

9^h August, Thursday– Parallel Session 3 Ballroom A	
Chair: Mr. Nazreen Bin Abdullasim	
Track: Multimedia	
10.30am-10.50am	#33: Rise of Social Media Marketing: A Perspective on Health Insurance. K. Thevasenapathy, Abeer Alsadoon, P.W.C. Prasad, Lau Siong Hoe and Amr Elchouemi.
10.50am-11.10am	#93: Evaluation of Production Model for Digital Storytelling via Educational Comics. Farah Nadia Azman, Syamsul Bahrin Zaibon, Norshuhada Shiratuddin and Mohamad Lutfi Dolhalit
11.10am-11.30pm	#85: Comparing DBpedia, Wikidata and YAGO for Web Information Retrieval. Sini Govinda Pillai, Lay-Ki Soon and Haw Su-Cheng.
11.30pm -11.50pm	#79: Snake-based Boundary Search for Segmentation of 3D Polygonal Model. Kok-Why Ng, Junaidi Abdullah, Sew-Lai Ng and Hau-Lee Tong.
11.50pm-12.10pm	#12: An Investigation of Learner Characteristics That Use Massive Open Online Courses (MOOC) in Learning Second Language. Hasmaini Hashim, Sazilah Salam and Siti Nurul Mahfuzah Mohamad.
12.10pm-12.30pm	#17: Cultural Metadata Enhancement by Using Community-driven Approach to Create Digital Holistic Culture Conservation System. Djoni Setiawan, Naim Che Pee and Mohd. Hafiz Zakaria.

9 th August, Thursday – Parallel Session 3 Straits 4	
Chair: Dr. Siti Azirah Binti Asmai	
Track: Security	
10.30am-10.50am	#36: Image Spam Detection on Instagram using Convolutional Neural Network. Chastine Fatichah, Wildan Fajria Lazuardi, Dini Adni Navastara, Nanik Suciati and Abdul Munif.
10.50am-11.10am	#46: A Review of Botnet Detection Approaches Based on DNS Traffic Analysis. Saif Al-Mashhadi, Mohammed Anbar, Shankar Karuppayah and Ahmed K. Al-Ani.
11.10am-11.30pm	#52: Features Selection for Intrusion Detection System Based on DNA Encoding. Fitian Rashid, Zulaiha Ali Othman and Suhaila Zainudin.
11.30pm -11.50pm	#76: Detection Techniques For DDoS Attacks In Cloud Environment: A Review Paper. Sultan Alanazi, Mohammed Anbar, Ahmed Al-Ani, Yousef Sanjalawe and Shankar Karuppayah.
11.50pm-12.10pm	#81: Network traffics classification for attack detection using big data tools: A review. Zaid Alaaraji and Sharifah Sakinah Syad Ahmed.
12.10pm-12.30pm	#88: Propose a New Approach for Securing DHCPv6 Server in IPv6 Link-Local Network. Ayman Khallel, Mohammed Anbar, Rosni Abdullah and Ahmed K. Al-Ani.

9 th August, Thursday – Parallel Session 4 Ballroom A	
Chair: Dr. Yogan a/l Jayakumar	
Track: System	
2.30pm-2.50pm	#2: A Proposed Framework: Enhanced Automated Duplication Algorithm for Flash Application. Aqilah Paskhal Rostam and Rosni Abdullah.
2.50pm-3.10pm	#25: A Design of Automated Surgical Illumination System. Syafeeza Ahmad Radzi.
3.10pm-3.30pm	#42: Alert System for Deaf People using Context-Aware Computing and Image Processing. Maythem Abbas, Bie Tong and Raed Abdulla.
3.30pm-3.50pm	#53: A Cloud Computing Framework for Higher Education Institutes in Developing Countries (CCF_HEI_DC). Ban Salman Shukur, Mohd Khanapi Abd Ghani and M.A Burhanuddin.
3.50pm -4.10pm	#62: Wireless Wearable for Sign Language Translator Device with Android-based App. Tan Ching Phing, Radzi Ambar, Chew Chang Choon and Mohd Helmy Abd Wahab

9th August, Thursday – Parallel Session 4 Straits 4	
Chair: Mr. Mohamad Lutfi Bin Dolhalit	
Track: Augmented Reality & Gaming	
2.30pm-2.50pm	<p>#9: ARMyPat: Mobile Application in Learning Malay Historical Patriots Using Augmented Reality. Mudiana Mokhsin, Amer Shakir Zainol, Emma Nuraihan Mior Ibrahim, Mohd Husni Mohd Som, Amir Afwan Azman and Kamarul Ariffin Abdul Basit.</p>
2.50pm-3.10pm	<p>#20: Augmented Reality Model to Aid Al-Quran Memorization for Hearing Impaired Students. Hayatunnufus Ahmad, Norziha Megat Mohd. Zainuddin, Rasimah Che Mohd Yusoff, Nurulhuda Firdaus Mohd. Azmi and Wan Azlan Wan Hassan.</p>
3.10pm-3.30pm	<p>#80: Augmented Reality: A Systematic Literature Review and Prospects for Future Research in Marketing and Advertising Communication. Fatrisha Mohamed Yussof, Sabariah Mohamed Salleh and Abdul Latiff Ahmad.</p>
3.30pm-3.50pm	<p>#71: Massively Multiplayer Online Game Addiction assessment components: The case study of Malaysian Adolescents. Muhammad Muhaimin and Norshakirah Aziz.</p>
3.50pm-4.10pm	<p>#91: Mobile Game for Children with Autism Spectrum Disorder to Support Positive Behavioral Skills. Tan Shin Wey, Muhammad Haziq Lim Abdullah and Nor Farah Naquiah Mohd Daud.</p>
4.10pm-4.30pm	<p>#6: A Study On Gamification for Higher Education Students' Engagement Towards Education 4.0. Rafidah Ab. Rahman, Sabrina Ahmad and Umami Rabaah Hashim.</p>
4.30pm-4.50pm	<p>#13: Learning Style on mobile Game-Based Learning Design: How to Measure? Hanif Al Fatta, Zulisman Maksom and Mohd Hafiz Zakaria.</p>

Acknowledgement