The 3rd International Conference on

Soft Computing 2018
and Data Mining

/// Concise and Informative

6th-7th February 2018

Le Grandeur Palm Resort

Johor Bahru, Malaysia

UTHM
Universiti Tun Hussein Onn Malaysia

SAMBUTAN ULANG TAHUN KE-25 UTHM 1993-2018

FSKTM
Fakulti Sains Komputer & Teknologi Maklumat

SPECIAL ISSUES JOUNALS

International Journal of Advances in Soft Computing (IJASCA)

International Journal on Advanced Science, Engineering and Information Technology (IJASEIT)

International Journal of Data Warehousing and Mining (IJDWM)

KEYNOTE SPEAKERS

Prof. Dr. Junzo Watada
Universiti Teknologi Petronas, Malaysia

Assoc. Prof. Dr David Taniar
Monash University

Dr. Dzaharudin Mansor
National Technology Officer, Microsoft Malaysia

Prof. Dr. Mustafa Mat Deris
Universiti Tun Hussein Onn, Malaysia

SPECIAL SESSIONS

Special Session 1:
Web Mining, Services and Security

Special Session 2:
Intelligent Human-Centred Computing

Special Session 3:
Web Mining and Content Analytics

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THEME

Concise and Informative

OBJECTIVES

i.   As a guideline in determining the direction of the faculty and also the university in selecting niche areas, the future research focuses in the field of Soft Computing and Data Mining.

ii.   Building up reputable and talented group of researchers in leading edge research activities.

iii.   Creating a network of national and international researchers.

iv.   Promoting University-Industry relations in research and innovation initiatives.

Message From
The Honourable Prof. Dr. Wahid
Razzaly
Vice-Chancellor,
Universiti Tun Hussein Onn Malaysia

Salam Sejahtera and Salam 1 Malaysia

On behalf of Universiti Tun Hussein Onn Malaysia, I would like to welcome all participants and invited speakers to the Third International Conference on Soft Computing and Data Mining (SCDM-2018). Indeed, this is a very special event for us, since we are getting more papers, commitment, contributions and partners from various countries which indicate continuous support from everyone throughout the globe following the success of our first and second workshop events in 2014 and 2016.

First and foremost, my deepest gratitude goes to the Soft Computing and Data Mining Research Group and Faculty of Computer Science and Information Technology, Universiti Tun Hussein Onn Malaysia for their significant involvement and support in organizing this event. My special thanks is also dedicated to Software and Multimedia Center, Universiti Tun Hussein Onn Malaysia for their supports and resources.

With the theme 'Concise and Informative ', this international conference opens the opportunity for researchers to propose their innovative ideas, concepts, models as well as practical solutions, products and services in soft computing and data mining for the benefits of all. Thus, this event will serve as the meeting place for innovative and talented researchers, academicians and students to build networks and gain collaborations for the advancement and applications of soft computing and data mining. We are very sure that the networking established at this conference will be harnessed for future research or academic undertakings to benefit the university and country.

Lastly, I would like to take this opportunity to thank the organizing committee for their utmost dedication and commitment to make SCDM 2018 a success. I wish this conference will attain another success story based on the quality of research paper produced.

"WITH WISDOM WE EXPLORE"

Thank you.

Message From
Assoc. Prof. Dr. Hairulnizam Mahdin
SCDM Chair 2018,
Universiti Tun Hussein Onn
Malaysia

Assalamualaikum wbt.

As the conference chair, I would like to extend my personal welcome to all international and local delegates, keynote speakers and presenters to the Third International Conference on Soft Computing and Data Mining (SCDM-2018).

After the success of our first and second previous conference events in 2014 and 2016, we hope to continuously moving on this journey of success through this Third International Conference. Indeed, we are very honoured to host this event and the fact that we are getting more papers, commitments, contributions and partnerships from various countries indicates a continuous support from researchers throughout the globe. I am also very honoured to be an integral part of this conference with the theme "Concise and Informative".

Today, the role of soft computing and data mining has become significantly crucial in our everyday tasks. Soft Computing and Data Mining is expected to facilitate and drive innovative ideas for attaining better life quality as well as solving real-world problems.

We hope that this conference will help us take a step towards that direction. This is done by having a collective talent of leading and innovative researchers, developers and practitioners to discuss on how soft computing and data mining researches can generate innovative and strategic methodologies, concepts, models, frameworks as well as practical solutions in the forms of products and services for the good of mankind.

Therefore, the main objective of organizing this event is to offer a platform for researchers, academics and students to present and share their innovative research findings and development, particularly in topical issues in the field of soft computing and data mining and other related fields.

The conference theme has attracted many local and international participants. We have received more than 70 paper submissions but due to the very rigorous peer-reviewing process, we had only been able to accept 53 papers for publication and oral presentation. All the accepted papers will be published in "Advances in Intelligent and Soft Computing" (AISC) Series of Springer.

Finally, I would like to express my sincere gratitude to the Soft Computing and Data Mining Research Group, Universiti Tun Hussein Onn Malaysia and all research

members for being a dedicated and committed team and to all sponsors for their invaluable support in realizing this event. My special thanks go to all members of the organizing committee from UTHM and especially the Vice Chancellor of Universiti Tun Hussein Onn Malaysia for their full and kind support in organizing our Third International Conference.

Lastly but not least, I would like to thank you all again for being here. I hope your experience at this event would be both beneficial and memorable.

BIOGRAPHY OF KEYNOTE SPEAKER 1

Prof. Dr Junzo Watada
Universiti Teknologi PETRONAS

Prof. Junzo Watada received his B.Sc. and M.Sc. degrees in electrical engineering from Osaka City University, Japan, and his Ph.D degree from Osaka Prefecture University, Japan. Currently, he is a professor, the Department of Computer and Information Sciences, Universiti Teknologi PETRONAS, and a Professor Emeritus at Waseda University. He received the Henri Coanda Medal Award from Inventico in Romania in 2002. He is a Life Fellow of the Japan Society for Fuzzy Theory and intelligent informatics (SOFT). Prof Watada is an IEEE senior member, Executive Chair of ISME, WCICME, a vice-president and life member, Forum of Interdisciplinary Mathematics. He commits himself in editing various international journals as a principal editor, an editorial board member and an associate editor, including Information Sciences, IDT journal, IJICIC, ICIC Express Letters, International Journal of Systems and Control Engineering, and Fuzzy Optimization & Decision Making. His professional interests include human centric data mining, soft computing, tracking systems, knowledge engineering, financial engineering and management engineering Chair, MSO-Geo&PE17 (UTP, Malaysia), MSO-Geo &18 (Matsue, Japan), ISME2018 (Kitakyushu, Japan).

BIOGRAPHY OF KEYNOTE SPEAKER 2

Dr Dzaharudin Mansor

National Technology Officer, Microsoft Malaysia

Dr. Dzaharudin received a First Class Honors Degree in Computer Systems Engineering from Monash University, Australia in 1985, and completed his PhD in Computer Science at La Trobe University, Australia in 1988. Dr. Dzaharudin joined Microsoft in 2005 and has more than 30 years of professional experience in ICT and telecommunications in senior leadership, engineering, research as well as academic roles.

In 2010, he had the honor of leading the Business Services Economic Transformation Program (ETP) Labs. He also presently is an Adjunct Professor at International Islamic University Malaysia (IIUM) and member of Industrial Advisory Panels at several other universities where he works closely with academia and research on topics such as Big Data and Machine Learning. He also holds several associate positions at, PIKOM, MIGHT and others.

Dr. Dzaharudin is passionate about technology and aspires to contribute towards the nation's Knowledge Economy initiative.

BIOGRAPHY OF KEYNOTE SPEAKER 3

Assoc. Prof. Dr David Taniar

Monash University

Assoc. Prof. David Taniar holds Bachelor, Master, and PhD degrees - all in Computer Science, with a particular specialty in Databases. His research is in the area of data management, particularly big data processing, parallel database processing, spatial and Geographical Information Systems, data warehousing and mining. Every year he publishes extensively, including his recent co-authored book: High Performance Parallel Database Processing and Grid Databases (John Wiley & Sons, 2008). Assoc. Prof. David Taniar has published more than300 papers in journals and conference proceedings with h-index = 31 (Scopus) and 37 (Google Scholar).

He is a founding editor-in-chief of a number of international journals, including Intl. J. of Data Warehousing and Mining, Mobile Information Systems, Intl. J. of Web Information Systems, and Intl. J. of Web and Grid Services. He is currently an Associate Professor at the Faculty of Information Technology, Monash University, Australia.

Besides doing research, he enjoys classical music. He received his piano training from the Conservatorium of Music - Jakarta Institute of the Arts (IKJ), where he majored in piano, and minored in viola. He used to play viola with a number of orchestras, including Jakarta Erasmus Symphony Orchestra (while studying at IKJ), Braddel Heights Symphony Orchestra (while he was a Visiting Professor at the National University of Singapore in 2006), New Monash Orchestra, Whitehorse Orchestra, and Zelman Memorial Symphony Orchestra. Now, he enjoys orchestral and recital music as an audience.

BIOGRAPHY OF KEYNOTE SPEAKER 4

Prof. Dr. Mustafa Mat Deris

Universiti Tun Hussein Onn Malaysia

Prof. Dr Mustafa Mat Deris received PhD from University Putra Malaysia in 2002. He is a professor of computer science in the Faculty of Computer Science and Information Technology, UTHM, Malaysia. He has published more than190 papers in journals and conference proceedings with h-index = 17 (Scopus) and 20 (Google Scholar). He has appointed as editorial board member for Journal of Next Generation Information Technology, JNIT, Korea, and Encyclopedia on Mobile Computing and Commerce, Idea Group, USA, Guest editor of International Journal of BioMedical Soft Computing and Human Science for Special Issue on "Soft Computing Methodologies and Its Applications" a reviewer of several international journals such as IEEE Transaction on Parallel and Distributed Computing, Journal of Parallel and Distributed Databases, Journal of Future Generation on Computer Systems, Journal of Knowledge-Based Systems, Elsevier, Journal of Cluster Computing, Kluwer, and Journal of Computer Mathematics, Taylor & Francis, UK.

He has served as a program committee member and co-organizer for numerous international conferences/workshops including Grid and Peer-to-Peer Computing, (GP2P 2005, 2006), Autonomic Distributed Data and Storage Systems Management (ADSM 2005, 2006, 2007), and Grid Pervasive Computing Security, organizer for workshops on Rough and Soft Sets Theories and Applications (RSAA 2010), Fukuoka, Japan, and Soft Computing and Data Engineering (SCDE 2010, 2011, Korea, SCDE 2012, Brazil). He is the recipient of "ICT Excellent Teacher" award 2006, from Malaysian National Computing Confederation (MNCC). His research interests include distributed databases, data grid, data mining and soft computing

SCDM 2018 TENTATIVE
Tuesday, 6th February 2018

Time	Programme	Venue
8.00 am - 9.00 am	Registration	The Perkasa Ballroom
9.00 am - 9.45 am	Opening Ceremony by The Honourable Prof. Dr. Ruzairi Abdul Rahim Deputy Vice Chancellor (Research and Innovation), Universiti Tun Hussein Onn Malaysia	The Perkasa Ballroom
9.45 am - 10.45 am	Keynote Address 1 Keynote Speaker: Prof. Dr. Junzo Watada Universiti Teknologi PETRONAS Title: A Fuzzy Regression Approach to Human Centered Data Mining	The Perkasa Ballroom
10.45 am -11.00 am	Morning Break	Convention Centre Foyer
11.00 am -12.00 pm	Keynote Address 2 Keynote Speaker: Dr. Dzaharudin Mansor Microsoft Malaysia Title: 4th Industrial Revolution: Are we ready?	The Perkasa Ballroom
12.00 pm - 02.00 pm	Lunch	Convention Centre Foyer
	Dzuhr Prayer	Perwira 2 (Man) Perwira 3 (Woman)
02.00 pm - 05.20 pm	Session 1A	The Perkasa Ballroom
	Session 1B	Pendeta 2
	Session 1C	Pendeta 4
3.30 pm	Tea Break	Convention Centre Foyer
07.30 pm - 10.00 pm	Dinner	Hibiscus Room

Wednesday, 7th February 2018

Time	Programme	Venue
09.00 am -10.00 am	Keynote Address 3 Keynote Speaker: Assoc. Prof. Dr. David Taniar Monash Unversity Title: Big Data is All About Data That We Don't Have	The Perkasa Ballroom
10.00 am -11.00 am	Keynote Address 4 Keynote Speaker: Prof. Dr. Mustafa Mat Deris Universiti Tun Hussein Onn Malaysia Title: Data Reduction Using Rough Set Theory and Conditional Entropy	The Perkasa Ballroom
11.00 am -11.30 am	Morning Break	Convention Centre Foyer
11.30 am -01.10 pm	Session 2A Session 2B Session 2C	The Perkasa Ballroom Pendeta 2 Pendeta 4
01.10 pm -02.00 pm	Lunch Dzuhr Prayer	Convention Centre Foyer Perwira 2 (Man) Perwira 3 (Woman)
02.00 pm -03.20 pm	Session 2D	Pendeta 2
03.30 pm	Tea, Networking & Disperse	Convention Centre Foyer

Opening Ceremony Tentative
Tuesday, 6th February 2018

09.00 am   :   Arrival of Invited Guests

09.05 am   :   Arrival of The Honourable Prof. Dr. Ruzairi Abdul Rahim,
Deputy Vice Chancellor (Research and Innovation) of
Universiti Tun Hussein Onn Malaysia

09.10 am   :   Doa' Recital by Adeleke Abdullahi

09.15 am   :   Welcome Address by Assoc. Prof. Dr Hairulnizam Mahdin
SCDM Chair 2018

09.25 am   :   Opening Remarks by The Honourable Prof. Dr. Ruzairi Abdul Rahim,
Deputy Vice Chancellor (Research and Innovation) of
Universiti Tun Hussein Onn Malaysia

09.35 am   :   SCDM 2018 Montage Presentation

Dinner Tentative
Tuesday, 6th February 2018

07.00 pm   :   Arrival of Invited Guests

07.30 pm   :   Arrival of The Honourable Assoc. Prof. Dr. Nazri Mohd Nawi,
Dean of Faculty of Computer Science and Information Technology,
Universiti Tun Hussein Onn Malaysia

07.35 pm   :   Do'a Recital by Adeleke Abdullahi

07.45 pm   :   Welcome Remarks by Assoc. Prof. Dr. Nazri Mohd Nawi
Dean of Faculty of Computer Science and Information Technology,
Universiti Tun Hussein Onn Malaysia

07.55 pm   :   UTHM Video Corporate Presentation

08.00 pm   :   Best Paper Award

08.30 pm   :   Dinner

PARALLEL SESSION DAY 1

Parallel Session 1A

Chair   : Kashif Talpur
Room   : The Perkasa Ballroom
Time   : 02.00 pm - 05.20 pm
Track   : Soft Computing & Data Mining

Time	Title & Author
02.00 pm - 02.20 pm	Exploration and Exploitation Measurement in Swarm-based Metaheuristic Algorithms: An Empirical Analysis. Kashif Talpur, Mohd Najib Mohd Salleh and Shi Cheng
02.20 pm - 02.40 pm	Fuzzy Evaluation Scheme for KDF Based on Stream Ciphers. Hamijah Mohd Rahman, Nureize Arbaiy and Chai Wen Chuah
02.40 pm - 03.00 pm	A Relative Tolerance Relation of Rough Set for Incomplete Information Systems. Rd Rohmat Saedudin, Hairulnizam Mahdin, Shahreen Kasim, Edi Sutoyo and Iwan Tri Riyadi Yanto
03.00 pm - 03.20 pm	Evaluating the Performance of Three Classification Methods in Diagnosis of Parkinson's Disease. Salama Mostafa, Aida Mustapha, Mohd Sharifuddin Ahmad and Mazin Mahmoud
03.20 pm - 03.40 pm	A Percentile Transition Ranking Algorithm Applied to Binarization of Continuous Swarm Intelligence Metaheuristics. Jose Garcia, Broderick Crawford, Ricardo Soto and Gino Astorga
03.40 pm - 04.00 pm	Decision Making Model for Dominant Criteria Affecting Cholesterol Level Based on Rough-Regression. Riswan Effendi

Time	Title & Author
04.00 pm - 04.20 pm	Classification of JPEG Files by Using Extreme Learning Machine. Rabei Ali, Kamaruddin Mohamad, Sapiee Jamel, Shamsul Kamal Ahmad Khalid
04.20 pm - 04.40 pm	Fibonacci Polynomials Based Functional Link Neural Network for Classification Tasks. Umer Iqbal and Rozaida Ghazali
04.40 pm - 05.00 pm	Mitigating manual Final Year Project (FYP) Management to be Centralized Electronically. Noryusliza Abdullah, Shahril Nazim Mohamed Salleh, Hairulnizam Mahdin, Rozanawati Darman, Basil David Daniel and Ely Salwana Mat Surin
05.00 pm - 05.20 pm	Semantic Approach for Web-Based Presentation Mining based on Ontology Support. Vinothini Kasinathan, Aida Mustapha and Imran Medi

Parallel Session 1B

Chair : Deden Witarshah Jacob
Room : Pendeta 2
Time : 02.00 pm - 05.20 pm
Track : Web Mining, Service and Security &
Soft Computing & Data Mining

Time	Title & Author
02.00 pm - 02.20 pm	Maximum Attribute Relative Approach in Selecting Cluster Attribute of Electronic Government Data Set. Deden Witarsyah Jacob, Iwan Tri Riyadi Yanto, Mohd Farhan Md Fudzee and Mohamad Aizi Salamat
02.20 pm - 02.40 pm	Android Malware Detection Based on Network Traffic Using Decision Tree Algorithm. Isredza Rahmi A Hamid, Aqil Zulkifli, Wahidah Md Shah and Zubaile Abdullah
02.40 pm - 03.00 pm	Evaluation of Weighted Based Algorithm for Android Malware Detection. Isredza Rahmi A Hamid and Nurul Hidayah Mazlan
03.00 pm - 03.20 pm	An Improved Low Contrast Image in Normalization Process for Iris Recognition System. Abdulrahman Aminu Ghali, Sapiee Jamel, Kamaruddin Malik Mohamad, Shamsul Kamal Ahmad Khalid, Zahraddeen Abubakar Pindar, Mustafa Mat Deris
03.20 pm - 03.40 pm	Presenting a New Method of Authentication for the Internet of Things Based on RFID. Farshad Asadpour and Shamsollah Ghanbari
03.40 pm - 04.00 pm	Measuring the Exploration of the Pitch in Soccer Players: Analysis in Official Matches. Filipe Manuel Clemente, Adam Owen, Aida Mustapha, Cornelis M. I. Niels van der Linden, João Ribeiro, Bruno

Time	Title & Author
	Mendes and Jelle Reichert
04.00 pm - 04.20 pm	Exploiting LabVIEW FPGA in Implementation of Real-time Sensor Data Acquisition for Rowing Monitoring System. Zarina Tukiran and Afandi Ahmad
04.20 pm - 04.40 pm	A Novel Computational Model for Conscious Machine and a New Theoretical Framework for Testing Consciousness in a Machine. Azree Shahrel Ahmad Nazri, Abdul Azim Abdul Ghani, Mohd Izuan Hafez Ninggal and Ng Keng Yap
04.40 pm - 05.00 pm	Multi-Layers Convolutional Neural Network for Twitter Sentiment Ordinal Scale Classification. Muath Alali, Nurfadhlina Mohd Sharef, Hazlina Hamdan, Masrah Azrifah Azmi Murad and Nor Azura Husin
05.00 pm - 05.20 pm	A Review: Image Analysis Techniques to Improve Labeling Accuracy of Medical Image Classification. Mazniha Berahim, Noor Azah Samsudin and Shelena Sosay Nathan

Parallel Session 1C

Chair : Munirah Mohd Yusof
Room : Pendeta 4
Time : 02.00 pm - 05.20 pm
Track : Intelligent Human-Centered Computing &
Web Mining and Content Analytics

Time	Title & Author
02.00 pm - 02.20 pm	M-DCocoa: M-Agriculture Expert System for Diagnosing Cocoa Plant Diseases. Nur Fazliyana Rosli, Munirah Mohd Yusof, Muhaini Othman and Rozlini Mohamed
02.20 pm - 02.40 pm	Dual-sensor based Sign Language Translator Device. Radzi Ambar, Chan Kar Fai, Mohd Helmy Abd Wahab, Muhammad Mahadi Abdul Jamil and Ahmad Alabqari Ma'Radzi
02.40 pm - 03.00 pm	Dyslexia Adaptive Learning Model: Student Engagement Prediction using Bag of Features. Novia Admodisastro, Siti Suhaila Abdul Hamid, Noridayu Manshor, Azrina Kamaruddin and Abdul Azim Abd. Ghani
03.00 pm - 03.20 pm	Towards Designing Tangible Interaction for Children with Dyslexia in Learning Malay Language. Siti Nurliana Jamali, Novia Admodisastro and Siti Suhaila Abd Hamid
03.20 pm - 03.40 pm	Comparison of Approaches Made to Enhance Pupils' Numeracy Skill. Nur Faizura Ahmad Fuadi, Muhammad Fakri Othman and Norhalina Senan
03.40 pm - 04.00 pm	Stock Market Prediction Using Keywords From Expert Articles. Ko Ichinose and Kazutaka Shimada

Time	Title & Author
04.00 pm - 04.20 pm	Sarcasm Detection Using Features Based on Indicator and Roles. Satoshi Hiai and Kazutaka Shimada
04.20 pm - 04.40 pm	Reducing Computational Effort for Plagiarism Detection with Approximate String Matching. Tetsuya Nakatoh
04.40 pm - 05.00 pm	Weighting of Noun Phrases Based on Local Frequency of Nouns. Yasuhiro Yamada, Yuusuke Himeno and Tetsuya Nakatoh
05.00 pm - 05.20 pm	Instance-based Ontology Matching: A Literature Review. Mansir Abubakar, Hazlina Hamdan, Norwati Mustapha and Teh Noranis Muhd Aris

PARALLEL SESSION DAY 2

Parallel Session 2A

Chair   : Mohd Hafizul Afifi Abdullah
Room   : The Perkasa Ballroom
Time   : 11.30 am - 01.10 pm
Track   : Soft Computing & Data Mining

Time	Title & Author
11.30 am - 11.50 am	A Framework to Cluster Temporal Data Using Personalised Modelling Approach. Muhaini Othman, Siti Aisyah Mohamed, Mohd Hafizul Afifi Abdullah, Munirah Mohd Yusof and Rozlini Mohamed
11.50 pm - 12.10 pm	A New Adaptive Energy-Aware Task Scheduling in Cloud Computing. Ali Aghababaeipoor and Shamsollah Ghanbari
12.10 pm - 12.30 pm	RMIL/AG: A New Class of Nonlinear Conjugate Gradient for Training Back Propagation Algorithm. Cik Sri Mazzura Muhammad Basri, Nazri Mohd Nawi, Mustafa Mamat and Norhamreeza Abdul Hamid
12.30 pm – 12.50 pm	An Algorithm Design for Recommender System Based on Kansei Engineering. Pei-Chun Lin, Chen Chieh-I and Nureize Arbaiy
12.50 pm – 1.10 pm	Temporal Based Factorization Approach for Solving Drift and Decay in Sparse Scoring Matrix. Ismail Al-Hadi, Nurfadhlina Sharef, Md Nasir Sulaiman and Norwati Mustapha

Parallel Session 2B

Chair   : Fazli Wahid & Ashikin
Room   : Pendeta 2
Time   : 11.30 am - 01.10 pm
Track   : Soft Computing & Data Mining

Time	Title & Author
11.30 am - 11.50 am	An Improved Hybrid Firefly Algorithm for Solving Optimization Problems. Fazli Wahid and Rozaida Ghazali
11.50 pm - 12.10 pm	Some New Results on The Stability of Fractional Integro-Differential Equations Under Uncertainty. Ali Ahmadian, Soheil Salahshour, Fudziah Ismail and Norazak Senu
12.10 pm - 12.30 pm	A Regulative Norms Mining Algorithm for Complex Adaptive System. Moamin Mahmoud, Mohd Sharifuddin Ahmad, Zaliman Yusoff and Salama Mostafa
12.30 pm – 12.50 pm	A New Concept of Fuzzy TOPSIS and Fuzzy Logic in A Multi-Criteria Decision Making. Nurnadiah Zamri and Ratih Fitria Jumarni
12.50 pm – 1.10 pm	A Numerical Classification Technique Based on Fuzzy Soft Set Using Hamming Distance. Iwan Tri Riyadi Yanto, Rd Rohmat Saedudin and Saima Anwar Lashari

Parallel Session 2C

Chair   : Ibrahim Umar Kontagora
Room   : Pendeta 4
Time   : 11.30 am - 01.10 pm
Track   : Soft Computing & Data Mining

Time	Title & Author
11.30 am - 11.50 am	Comparative Studies of Information Retrieval Approaches in User-Centered Health Information System. Ibrahim Umar Kontagora and Isredza Rahmi A Hamid
11.50 pm - 12.10 pm	Predicting the Probability of Breast Cancer Recurrence Using Random Forest Model. Tahsien Ali Hussein Al-Quraishi, Jemal H. Abawajy, Morshed Chowdhury, Sutharshan Rajasegarar and Ahmad Shaker Abdalrada Abdalrada
12.10 pm - 12.30 pm	Is SVM+FS Better to Satisfy Decision by Majority? Yao Lin, Kohei Yamaguchi, Tsunenori Mine and Sachio Hirokawa
12.30 pm – 12.50 pm	Warehouse Picking Model for Single Picker Routing Problem in Multi Dimensional Warehouse Layout using Genetic Algorithm Approach To Minimize Delay. Dida Diah Damayanti, Erlangga Bayu Setyawan, Luciana Andrawina and Budi Santosa Chulasoh
12.50 pm – 1.10 pm	A Group-Based Feature Selection Approach to Improve Classification of Holy Quran Verses. Abdullahi Adeleke, Noor Azah Samsudin, Aida Mustapha and Nazri Nawi

Parallel Session 2D

Chair   : Ashikin Ali
Room   : Pendeta 2
Time   : 2.00 pm - 03.20 pm
Track   : Soft Computing & Data Mining

Time	Title & Author
02.00 pm – 02.20 pm	Violence Video Classification Performance Using Deep Neural Networks. Ashikin Ali and Norhalina Senan
02.20 pm – 02.40 pm	A Similarity Precision for Selecting Ontology Component in an Incomplete Sentence. Nur Fatin Nabila, Mustafa Mat Deris and Nurlida Basir
02.40 pm - 03.00 pm	Association Between Angiotensin Converting Enzyme (ACE) gene I/D Polymorphism and Cardiac Autonomic Neuropathy (CAN) Among Australian Population. Ahmad Abdalrada
03.00 pm - 03.20 pm	Modeling of Consumer Interest on E-commerce Products Using Eye Tracking Methods. Juni Nurma Sari, Lukito Nugroho, Paulus Insap Santosa and Ridi Ferdiana

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