



CITA 2015 Programme

Tutorial Sessions, FCSIT, UNIMAS – Monday, 3<sup>rd</sup> August 2015

8:00am - 8:30am	Registration
8:30am - 10:30am	Tutorial
10:30am - 11:00am	Morning Tea Break
11:00am - 12:30pm	Tutorial
12:30pm - 2:00pm	Lunch Break
2:00pm - 3:30pm	Tutorial
3:30pm - 4:00pm	Afternoon Tea Break
4:00pm - 5:30pm	Tutorial

## Conference Day 1, Kuching Hilton Hotel – Tuesday, 4<sup>th</sup> August 2015

8:00am – 9:00am	Registration <i>Lounge Area</i>		
9:00am – 10:30am	Opening Ceremony		
10:30am – 11:00am	Tea Break		
11:00am – 12:00pm	Keynote Address #1 <i>Data Ecosystems: From Very Large Data Bases to Big Data Infrastructures</i> Prof. Timos Sellis, RMIT University Chairperson: Dr Edwin Mit		
12:00pm – 12.45pm	Invited Speaker #1 <i>The State of the Net: Threat Landscape and Digital Freedom</i> Mr. Goh Su Gim, F-Secure Chairperson: Dr Edwin Mit		
12:45pm – 2:00pm	Lunch		
2:00pm – 3:00pm	Keynote Address #2 <i>The Intersection of Big Data, Data Science, and the Internet of Things</i> Prof. Bebo White, SLAC National Accelerator Laboratory, Stanford University Chairperson: Prof. Dr. Alvin Yeo Wee		
3:00pm – 3:30pm	Tea Break		
3:30pm – 5:00pm	Parallel Sessions 1.1 Ballroom 2 <i>Chairperson: Dr Chiew Kang Leng</i>  <u>Full Papers</u> * 13 – Predicting Electricity Consumption: A Comparative Analysis of the Accuracy of Various Computational Techniques.  * 19 – The Effect of Vaccination Decision in Disease Modelling through Simulation.  22 – Impact of Human Diffusion and Spatial Heterogeneity on Transmission Dynamics of Mosquito-borne Diseases.	Parallel Sessions 1.2 Ballroom 3 <i>Chairperson: Dr Kartinah Zen</i>  <u>Full Papers</u> * 66 – Neighbor Selection Protocol for Heterogeneous Information Dissemination in Opportunistic Networks.  * 75 – Towards Vulnerability Prevention Model for Web Browser using Interceptor Approach.  26 – Performance Evaluation of ZigBee in Indoor and Outdoor Environment.	Parallel Sessions 1.3 Kenyalang <i>Chairperson: Dr Hamimah Ujir</i>  <u>Full Papers</u> * 64 – EFA for Structure Detection in Image Data: Empirical Results on Two Datasets of Different Perception.  * 73 – Automated Machine for Sorting Sarawak Pepper Berries.  * 74 – Spatio-Temporal Semantic Representation of Cardiac MRI in Heart Attack Patients.

	<p style="text-align: center;"><u>Short Papers</u></p> <p>15 – Comparing Classification Performance of Decision Trees and Support Vector Machines: A Small Data Scenario</p> <p>39 – Semantic Relatedness Measure For Identify Relevant Answers in Online Community Question Answering Services.</p>	<p style="text-align: center;"><u>Short Papers</u></p> <p>1 – An Analysis of Graphical User Authentication Systems.</p> <p>20 – Analysis of Single Sign-On Protocols from the Perspective of Architecture Deployment, Security and Usability.</p>	<p style="text-align: center;"><u>Short Papers</u></p> <p>8 – Impulse Noise Reduction using Image Fusion Approach.</p> <p>51 – Investigation of Content-based Features in Sentiment Analysis Performance.</p>
7:30pm – 10:00pm	Conference Dinner		

\* Best paper nominees

Conference Day 2, Kuching Hilton Hotel – Wednesday, 5<sup>th</sup> August 2015

<p>8:30am – 10:00am</p>	<p>Parallel Sessions 2.1 Ballroom 2 <i>Chairperson: Dr Mohd Nazim Jambli</i></p> <p><u>Full Papers</u></p> <p>* 58 ENHANCEMENT OF AODV ROUTING PROTOCOL IN MASNETS.</p> <p>* 59 – Evaluation of Clustering and Multi-hop Routing Protocols in Mobile Ad-hoc Sensor Networks.</p> <p>52 – Wireless Body Area Networks Channel Decongestion Algorithm.</p> <p><u>Short Papers</u></p> <p>43 – Enterprise Mobile Cloud Application for Textile Cyberpreneurs: Big Data Issues, Challenges and Opportunities.</p> <p>4 – Formal Representation in Defining Indigenous Knowledge Framework</p>	<p>Parallel Sessions 2.2 Ballroom 3 <i>Chairperson: Dr Sze San Nah</i></p> <p><u>Full Papers</u></p> <p>* 29 – Feature Selection with Mutual Information for Regression Problems.</p> <p>* 45 – Simulation of 2D Surface Flow in Open Channel Using Finite Difference Method.</p> <p>* 48 – Improved H3K27ac Histone Mark Prediction using K-mer Proximity Feature</p> <p><u>Short Papers</u></p> <p>17 – Optimal Path for E-Commerce Logistics Distribution.</p> <p>69 – Comparisons of Enhancers Associated Marks Prediction Using K-mer Feature.</p>	<p>Parallel Sessions 2.3 Kenyalang <i>Chairperson: Dr Bong Chih How</i></p> <p><u>Full Papers</u></p> <p>14 – Hybrid Rule-Based Approach for Aspect Extraction and Categorization from Customer Reviews.</p> <p>18 – Modeling User Music Preference through Usage Scoring and User Listening Behavior for Generating Preferred Playlists.</p> <p>23 – Building a Pilot Software Quality-in-Use Benchmark Dataset.</p> <p><u>Short Papers</u></p> <p>31 – An Interactive Video Conferencing Module for e-Learning using WebRTC.</p> <p>40 – Generating Offers with Cosine Similarity in Multi-Attribute Negotiation.</p>
<p>10:00am – 10:30am</p>	<p>Tea Break</p>		
<p>10:30am – 11:15am</p>	<p>Invited Speaker #2 <i>The Challenges of Geospatial Analytics in the Era of Big Data</i> Dr. Noordin Ahmad, ANGKASA <i>Chairperson: Prof. Dr Wang Yin Chai</i></p>		
<p>11:15am – 12:45pm</p>	<p>Parallel Sessions 2.4 Ballroom 2 <i>Chairperson: Dr Chai Soo See</i></p>	<p>Parallel Sessions 2.5 Ballroom 3 <i>Chairperson: Dr Halikul Lenando</i></p>	<p>Parallel Sessions 2.6 Kenyalang <i>Chairperson: Dr Tiong Wei King</i></p>

	<p style="text-align: center;"><u>Full Papers</u></p> <p>6 – Building Use Cases for Big Data Analytics With Activity Reference Framework for Big Data Analytics.</p> <p>56 – Comparison of Data Driven Models (DDM) for Soil Moisture Retrieval using Microwave Remote Sensing Data.</p> <p>63 – Measuring Task Performance Using Gaze Regions.</p> <p style="text-align: center;"><u>Short Paper</u></p> <p>47 – Modeling Business Intelligence (BI) Requirements of Rural Healthcare Center Using Goal-Oriented Approach.</p>	<p style="text-align: center;"><u>Full Papers</u></p> <p>11 – Phishing Email Detection Technique by using Hybrid Features.</p> <p>25 –Performance Analysis of RTS/CTS Protocol over Basic Access in Wireless Networks.</p> <p>83 – Wi-Fi Fingerprint Database Construction using Chebyshev Wavelet Functions.</p> <p>24 – Formalize The Software Quality Measurement for Heterogeneous Requirements.</p>	<p style="text-align: center;"><u>Full Papers</u></p> <p>30 – Feature Selection based on Mutual Information for Machine learning prediction of Petroleum reservoir properties.</p> <p>68 – Green Manufacturing and Logistics in Automotive Industry: A Simulation Model.</p> <p>42 – Information Seeking Features of a PICO-based Medical Question-Answering System: A Usability and Satisfaction Survey.</p> <p>55 –A Study on Heuristic Timetabling Method for Faculty Course Timetable Problem</p>
12:45pm – 2:00pm	Lunch		
2:00pm – 2:45pm	<p>Invited Speaker #3</p> <p><i>Hybrid ACS and Flower Pollination Algorithm for Optimization</i></p> <p>Prof. Dr. Ku Ruhana Ku Mahamud, Universiti Utara Malaysia</p> <p>Chairperson: Dr. Dayang NurFatimah Awang Iskandar</p>		
2:45pm – 3:00pm	Break		
3:00pm – 4:00pm	<p>Keynote Address #3</p> <p><i>Big Data and Stream Analytics</i></p> <p>Prof. Geoff Holmes, University of Waikato</p> <p>Chairperson: Assoc. Prof. Dr. Jane Labadin</p>		
4:00pm – 4:45pm	<p>Panel Discussion</p> <p><i>Future and Challenges of Big Data Research</i></p> <p>Panels: Mr Rueben Wee, Prof. Bebo White, Prof. Geoff Holmes, Prof. Narayanan Kulathuramaiyer</p> <p>Chairperson: Dr. Johari Abdullah/ Prof Dr Alvin</p>		
4:45pm – 5:30pm	Closing Ceremony & Award		

\* Best paper nominees