KUCHING . SARAWAK
17 - 18 NOVEMBER 2014

ICT4M

2014 5th INTERNATIONAL CONFERENCE ON
INFORMATION & COMMUNICATION TECHNOLOGY
FOR THE MUSLIM WORLD (ICT4M)

Socio-Digital Transformation, For The Ummah

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2014 The 5th International Conference on Information and Communication Technology for The Muslim World (ICT4M 2014)

PROGRAM

November 17th -18th, 2014
Kuching, Sarawak, Malaysia

Riverside Majestic Hotel
Jalan Tunku Abdul Rahman, P.O. Box 2928, 93756
Kuching Sarawak, Malaysia

ICT4M 2014
Monday, November 17

08:00 a.m. – 08:35 a.m. Conference Registration – 3th Floor Foyer

08:30 a.m. – 08:45 a.m. Welcoming Remark Ballroom
Assoc. Prof. Dr. Murni Mahmud, IIUM,
ICT4M General Chair
Asst. Prof. Dr. Nadianatra Musa, UNIMAS,
ICT4M General Chair

08:45 a.m. – 09:30 a.m. Keynote Speaker 1

Prof. Dr. Abdul Latif Samian
ICT and Philosophy: Harnessing the Socio-Digital Transformation

Moderator: Assoc. Prof. Dr. Mohamad Fauzan Noordin, International Islamic University Malaysia
Location: Ballroom, 3rd Floor

09:30 – 10.15 a.m. Keynote Speaker 2

Dr. Mazlan Abbas
Internet of Things (IOT): Benefits for The Ummah

Moderator: Dr. Adnan Shahid Khan, University Malaysia Sarawak, Malaysia
Location: Ballroom, 3rd Floor

10:30 a.m. – 10:45 a.m. Coffee Break

10:30 a.m. – 12:00 p.m. Opening Ceremony and MOU Signing

12:00 p.m. – 12:45 p.m. Keynote Speaker 3

Prof. Emeritus Dr. Alistair Sutcliffe

Moderator: Assoc. Prof. Dr. Imad Fakhri Taha Alshaikhli, International Islamic University Malaysia
Location: Ballroom, 3rd Floor

12:45 p.m. – 14:00 p.m. Lunch
PARALLEL SESSION

Socio-Digital for The Ummah Cohesion
SESSION 1A  Monday, November 17, 14:00 p.m. – 15:40 p.m.
Session Chair: Prof. Dr. Abu Osman Md Tap, IIUM
Venue: Sarawak Chamber 2

PID: 114. Perceptions of Library and Information Science Community towards Open Source Software Adoption in Libraries of Oman
Saleh AL Zeheimi, Akram MZM Kheder, Mohamed Jalaldeen Mohamed Razi, Samer M. Zain, and Adamu Abubakar.

PID: 55. Open Source Software in Small Libraries: Myths and Realities
Normi Sham Awang Abu Bakar and Yushiana Mansor.

Nik Roslina Raja Ismail and Yushiana Mansor.

PID: 111. Investigating the Factors that Influence the Quality of Open Source Systems
Nadiah Arsat and Normi Sham Awang Abu Bakar.

PID: 18. A User Study on the Experience of Information Seeking for Islamic and Quranic Information on the Web
Rita Zaharah Wan-Chik.

Socio-Digital and Innovative Islamic Application
SESSION 1B  Monday, November 17, 14:00 p.m. – 15:40 p.m.
Session Chair: Prof. Dr Asadullah Shah, IIUM
Venue: Sarawak Chamber 3

PID: 138. S-Rater: Data Mining Application in Islamic Financial Sector
Mira Kartiwi, Tika Arundina and Mohd Azmi Omar.

PID: 53. Metadata Interoperability Requirements for Aggregating Islamic Manuscript Bibliographic Records
Sharifah Nur Amirah Sarif Abdullah and Yushiana Mansor.

PID: 126. Prevention of Attack on Islamic Websites by Fixing SQL Injection Vulnerabilities using Co-evolutionary Search Approach
Kabir Umar, Abu Bakar Sultan, Hazura Zulzalil, Novia Admodisastro, and Mohd Taufik Abdullah.

PID: 139. 3D Animation As An Alternative Mean of Da’wah for Children
Mohd. Zharif Draman and Akram MZM Kheder.

PID: 84. Exploring User Spiritual Experience with Islamic Websites For Elderly
Fariza Hanis Abdul Razak, Nor Rasyidah Haminudin, Wan Adilah Wan Adnan, Nurazzah Abd Rahman and Hani Fuiziah Abdul Rahman.
PID: 92. Online Dyslexia Screening Test for Malaysian Young Adults in Bahasa Melayu
Nur Amalina Mohamad Hazawawi and Syariffanor Hisham.

PID: 132. Older People and Their Use of Mobile Devices: Issues, Purpose and Context
Muna Azuddin, Sofianiza Abd Malik, Lili Marziana Abdullah and Murni Mahmud.

PID: 33. Scaffolded Arabic Language Mobile Educational Game
Syed Ahmad Aljunid, Mohamad Ashraf Mohamad Amin and Anis Shobirin Abdullah Sani.

PID: 19. Issues of E-Learning in Developing Countries: A Nigerian Perspective
Balogun Naeem Atanda and Abd Rahman Ahlan.

Jonathan Mantikayan, Lili Marziana Abdullah and Montadzah Abdulgani.

PID: 74. Automated Testing Tools for Mobile Applications
Nurul Husna Saad and Normi Sham Awang Abu Bakar.

PID: 95. A Region-to-Point Indoor Localization Approach via RSS-Magnetic Fingerprinting
Muhammad Faheem Mohd Ezani, Mohd Ariff Abdullah and Shariq Haseeb.

PID: 140. Rapid Development of Smart Parking System with Cloud-based Platforms

PID: 40. The Design and Implementation of a QR-code Enabled Mobile Online Judging Application
Rizal Mohd Nor, Abdulfattah Muhuyiddeen Muhd Ridzuan and Mohamed Jalaldeen Mohamed Razi.

PID: 87. Towards a Mobile and Context-Aware Framework from Crowdsourced Data
Akhlqaq Ahmad, Md. Abdur Rahman, Imad Afyouni, Faizan Ur Rehman, Bilal Sadiq, and Mohamed Ridza Wahiddin.
PID: 129. Automated Mobile-based Grader for Piper Nigrum
Dayang Nur Fatimah Awang Iskandar.

PID: 37. Web Usage Mining: A Review of Recent Works
Rosli Omar, Abu Osman Md Tap, and Zainatul Shima Abdullah.

PID: 141. Word Classification for Sign Language Synthesizer using Hidden Markov Model
Haris A. Maarif, R. Akhmeiawati, Zaw Z. Htike and Teddy Surya Gunawan.

PID: 83. Two-Mode Complex Network Modeling of Dengue Epidemic In Selangor, Malaysia

PID: 109. Speech Emotion Identification Analysis based on different Spectral Feature Extraction Methods
Norhaslinda Kamaruddin, Abdul Wahab Abdul Rahman and Nor Sakinah Abdullah.

15:40 – 16:00 p.m. Coffee Break

PID: 143. Quranic Texts Retrieval in Indri
Roslina Othman and Fauziah Abdul Wahid.

PID: 90. Social Networks Privacy Policy Awareness among Undergraduate Students: The Case of Twitter
Shuhaili Talib, Nur Ain Ismail, Akeem Olowolayemo, Sharifah Aina Syed Naser, Siti Zalifah Haron, and Asma Hanisah Mohammad Yusof.

PID: 82. Information Security Awareness through the use of Social Media

PID: 116. Electronic resources at the University of Dubai: information seeking behaviour
Ali Amour El-Maamiry.

PID: 60. Can Being Away From Mobile Phones For One Hour Benefit Muslim Adolescents? The Role of Intervention Program
Nazariah Shar’Ie Janon and Azlin Alwi.
**Socio-Digital and Innovative Islamic Application**

**SESSION 2B**  
Monday, November 17, 16:00 p.m. – 17:40 p.m.  
Session Chair: Assoc. Prof. Dr. Mira Kartiwi, IIUM  
Venue: Sarawak Chamber 3

**PID: 39. Developing The Novel Quran and Hadith Authentication System**  
Amirrudin Kamsin, Abdullah Gani, Ishak Suliaman, Salinah Jaafar, Rohana Mahmud, Aznul Qalid Md Sabri, Zaidi Razak, Mohd Yamani Idna Idris, Maizatul Akmar Ismail, Noorzaily Mohamed Noor, Siti Hafizah Ab Hamid, Norisma Idris, Mohd Hairul Nizam Md Nasir, Khadher Ahmad, Sedek Ariffin, Mustaffa Abdullah, Siti Salwah Salim, Ainuddin Wahab Abdul Wahid, Hannyzzura Pal@Affal, Suad Awab, Mohd Jamil Maah, and Mohd Yakub Zulkifli Mohd Yusoff

**PID: 7. Islamic-themed Web Application for Malaysian Sign Language**  
Shamsul Anuar Mokhtar and Siti Mashitah Shamsul Anuar.

**PID: 58. Mosque As Metaphor Analogy: Incorporating Islamic Values In Desktop Design**  
Zan Azma bt Nasruddin and Husnayati Hussin.

**PID: 17. Optimizing Human Memory: An insight from the study of Al Huffaz**  

Normaziah Abdul Aziz and Yushiana Mansor.

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**Socio-Digital in Education and Training**

**SESSION 2C**  
Monday, November 17, 16:00 p.m. – 17:40 p.m.  
Session Chair: Dr. Azman Bujang Masli, UNIMAS  
Venue: Wind Suite 2

**PID: 91. Tablet technology integration framework for slow learner learning**  
Azizzeanna Hassan, Murni Mahmud, and Abu Osman Md. Tap.

**PID: 23. A Usability Testing On jFakih Learning Games for Hearing Impairment Children**  
Azham Hussain, Norasyikin Abdul Mutalib and Azida Zainol.

**PID: 67. Student Performance Analysis System (SPAS)**  
Chew Li Sa, Dayang Hanani bt. Abang Ibrahim, Emmy Dahliana Hossain, and Mohammad bin Hossin.

**PID: 118. Innovative Web 2.0 Based Collaborative Learning and study circle Model: Integrating Islamic revealed knowledge and Human science**  
Farib Ataie, Asadullah Shah and Mior Nasir Mior Nazir.

**PID: 104. CART - An Arabic Teaching-Learning Tool for Non-native Arabic Speakers**  
Ahmad Hasanul Ishraf Shuib, Normaziah Abdul Aziz, Nurailhan Md. Daud, Haslina Hasan
**PID: 108. Comparative Study of Some Symmetric Ciphers in Mobile Systems**
Khalid Fadhil Jasim and Imad Fakhri Taha Al Shaikhli.

**PID: 123. Design and Development of Portable Classroom Attendance System Based on Arduino and Fingerprint Biometric**
Nur Izzati Zainal, Khairul Azami Sidek, Teddy Surya Gunawan, Hasmah Mansor, and Mira Kartiwi.

**PID: 124. Mobile Based Development of a Voter Information Management System (Sipendalih) for the 2014 Indonesian Presidential Election: Case of Indonesian Voters in Malaysia**
Nashrul Hakiem, Abdul Mutholib, and Umar Aditiawarman.

**PID: 100. An Empirical Study of Customers’ Adoption of Mobile Money Transfer Services in Somaliland**
Ishaq Oyebisi Oyefolahan, Sa’ad Abdirisak Ahmed, and Adamu Abubakar.

**PID: 56. Consumers’ Perceptions Towards Mobile Halal Application System**
Elistina Abu Bakar, Nashaqilla Norlee Roslee and Aznan Zuhid Saidin.

**PID: 32. Calculus And Its Applications In Scale-Free Networks**
Abdul Waheed Mahesar, Hafiz Abid Mahmood Malik, Akhlaq Ahmad, Asadullah Shah, and Mohamed Ridza Wahiddin.

**PID: 10. Evaluating Cyber Terrorism Components In Malaysia**
Zahri Yunos and Rabiah Ahmad.

**PID: 49. Coordinate Negative Content Filtering and Threat Detection in Thailand on the Internet Infrastructure**
Sahidan Abdulmana and Burhan Saleh.

**PID: 6. Techniques for Analysing Android Malware**
Olawale Surajudeen Adebayo and Normaziah Abdulaziz.

**PID: 63. Improving Hybrid Speaker Verification in Noisy Environments Using Least Mean-Square Adaptive Filters**
Mohd Zaizu Ilyas, Puteh Saad, Muhammad Imran Ahmad, Ahmad Taufik Rusli, Salina Abdul Samad, Aini Hussin & Khairul Anuar Ishak.
08:00 a.m. – 08:30 a.m.  Conference Registration – 3th Floor Foyer

PARALLEL SESSION

Socio-Digital for The Ummah Cohesion
SESSION 3A  Tuesday, November 18, 08:50 a.m. – 10:50 a.m.
Session Chair: Dr. Irwandi Hipni b Mohd Hipiny, UNIMAS
Venue: Sarawak Chamber 2

PID: 66. TOPAZ Simulator on Mesh and Torus Network
M.M. Hafizur Rahman, Ala Ahmed Yahya Hag, Rizal Mohd Nor and Tmt Sembok.

PID: 52. A Neighbour Discovery Approach for Cognitive Radio Network Using Tower of Hanoi (ToH) Sequence Based Channel Rendezvous

PID: 121. Code Location based forwarding technique in Opportunistic Network
Halikul Lenando, Qin Feng, Mohamad Nazim Jambli, Johari Abdullah and Kartinah Zen.

PID: 65. Crosstalk Freeness of Concatenated Modified Plus-Minus 2i Photonic Switching Network

Abdulsalam Ya’u Gital, Abdul Samad Ismail, Haruna Chiroma, Adamu I. Abubakar, Bala Ma’aji Abdulhamid, Jaafar Zubairu Maitama, and Akram Zeki
Socio-Digital and Innovative Islamic Application

SESSION 3B  Tuesday, November 18, 08:50 a.m. – 10:50 a.m.
Session Chair: Dr. Ishaq Oyebisi Oyefolahan, IIUM
Venue: Sarawak Chamber 3

PID: 77. Frequent Pattern Extraction in the Tafseer of Al-Quran
Stephanie Chua and Puteri Nor Ellyza binti Nohuddin.


PID: 36. Exploring Factors that Influence Muslim Intention to Purchase Online
Montadzah Ambag Abdulgani and Mohd Adam Suhaimi.

PID: 64. Investigating How the Sources of Online Audio Qur’an Empower Listeners
Akram MZM Kheder, Ishaq Oyebisi Oyefolahan, Nur Azrin Abd Malek, Murni Mahmud, Nadeem Mahmood, Asadullah Shah, Adamu Abubakar

PID: 146. Personal Learning Environment Framework for a Self-help Maqam-based Search System

PID: 107 Investigation of user satisfaction of online services in Kuwait Mobile Communication Companies
Tami Alzabi and Asadullah Shah

Socio-Digital for Research, Innovation and Commercialization

SESSION 3C  Tuesday, November 18, 08:50 a.m. – 10:50 a.m.
Session Chair: Dr. Zulkefli Muhammed Yusof, IIUM
Venue: Deer Suite

PID: 117. RFID Based Smart Hospital Management System: A Conceptual Framework

PID: 30. A Study on Improving Security Warnings
Zarul Fitri Zaaba, Steven M. Furnell, and Paul S. Dowland.

PID: 122. Identify the best location to place data based on social intercation in opportunitic network
Halikul Lenando, Goh Sing Sian, Adnan Shahid Khan and Ahmad Hadinata Fauzi.

PID: 21. Preventing Persistent Cross-Site Scripting (XSS) Attack By Applying Pattern Filtering Approach
Imran Yusof and Al-Sakib Khan Pathan.

PID: 5. An Intelligence based Model for the Prevention of Advanced Cyber-Attacks
Olawale Surajudeen Adebayo and Normaziah Abdulaziz.
PID: 61. Students' Opinions on the Usage of Online Learning  
Ahmad Muhaimin Mohamad, Farahwahida Mohd, Yusof and Baharuddin Aris.

PID: 15. Web-Based E-Learning Systems Success and Acceptance: A review of Contributing Factors from the Instructors’ Perception  
Ishaq Oyebisi Oyefolahan and Nahel A O Abdallah.

PID: 130. User Generated Content and Internet User’s Value: Does Website Quality Matter?  
Farzana Quoquab, Morteza Zeinali, Nomahaza Mahadi and Jihad Mohammad.

PID: 73. User Perception on Interactive Digital Exhibits and Learning Experience  
Juliana A. Abubakar, Murni Mahmud and Puteri Shireen Jahnkassim.

PID: 75. Test Driven Development Contribution in Universities in Producing Quality Software: A Systematic Review  
Norzariyah Yahya and Normi Sham Awang Abu Bakar.

PID: 25. Ethical Perspective of Learning Management System A Model to support moral character of online learner  
Abdulhafeez Muhammad, Heider Wahsheh, Asadullah Shah and Farooq Ahmad.

PID: 133. Systematic Review of Computational Modeling of Mood and Emotion  
Dini Handayani, Hamwira Yaacob, Abdul Wahab Abdul Rahman, Wahju Sediono, Asadullah Shah

PID: 54. Eye 2H: A proposed automated smart home control system for detecting human emotions through facial detection  

PID: 99. Graphical Based Monitoring of the Earth’s Electric Field Signal prior to the Earthquake  

PID: 101. CMAC-based Computational Model of Affects (CCMA) for profiling emotion from EEG signals  
Hamwira Yaacob, Abdul Wahab Abdul Rahman and Imad Fakhri Taha Al Shaikhli.

PID: 85. An Ontology Based Framework for Shariah Sustenance in the West  
Rasheed Rabbi.

10:50 a.m. – 11:00 a.m.  Coffee Break
**Socio-Digital for The Ummah Cohesion**

**SESSION 4A**

Tuesday, November 18, 11:00 a.m. – 13:00 p.m.  
Session Chair: Dr. Hamimah Ujir, UNIMAS  
Venue: Sarawak Chamber 2

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**PID: 88. An IT governance framework for achieving the development of Academic Programme in Higher Institutions: A case of Universiti Malaysia Sarawak (UNIMAS)**  
Nadianatra Musa, Dayang Hanani Abang Ibrahim, Noor Alamshah Bolhassan, Johari Abdullah, Narayanan Kulathuramaiyer, and Mohamad Nazri Khairuddin.

**PID: 41. The Success Factors in Government Information Sharing (GIS)**  
Empirical findings from the Malaysian’s Natural Disaster Management Context  
Abdul Rahman Ahmad Dahlan, Hayati Mohd Dahan and Mdyazid Saman.

**PID: 2. Exploring Information Technology Governance in a Malaysian Public University: Providers’ Perspectives**  
Binyamin Adeniyi Ajayi and Husnayati Hussin.

**PID: 48. Perceptions of Information Systems Integration: The case of a Malaysia’s higher education institution**  
Norshidah Mohamed, Batia Mahadi, Suraya Miskon and Hanif Haghshenas.

**PID: 94. E-commerce adoption in SME Retail Sector: a conceptual model**  
Mohammad Ruhul Amin and Husnayati Hussin.

**PID: 125. Privacy Concern and Perceived Benefits towards Privacy and Election in Indonesia**  
Muharman Lubis and Mira Kartiwi.

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**Socio-Digital for Data Analysis, Prediction and Model Identification**

**SESSION 4B**

Tuesday, November 18, 11:00 a.m. – 13:00 p.m.  
Session Chair: Prof. Husnayati Hussin, IIUM  
Venue: Deer Suite

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**PID: 120. Dynamic Linear Feedback Shift Registers: A Review**  
Fardous Mohamed Ali Eljadi and Imad Fakhri Taha Al Shaikhli.

**PID: 131. Four Persons Envy-Free Division: A Case Study**  
Farin Rahman, Mahjabeen Mostafa, and M.M. Hafizur Rahman.

**PID: 112. A Study on the effects of EEG and ECG signals while listening to Qur’an recitation**  
Imad Fakhri Taha Alshaikhli, Sabaa Ahmed Yahya and Irma Pammusu.

**PID: 43. Linguistic Approximations of Distances for Indoor Location Authority**  
Akeem Olowolayemo, Abu Osman Md Tap, and Teddy Mantoro.

**PID: 28. Simulation of Resource Sharing Architecture between Clouds (ReSA) using Java Programming**  
Ahmad Waqas, Zulkefli Muhammed Yusof, Asadullah Shah, Zeeshan Bhatti, Nadeem Mahmood.
Socio-Digital in Education and Training

SESSION 4C  Tuesday, November 18, 11:00 a.m. – 13:00 p.m.
Session Chair: Dr. Halikul Lenando, UNIMAS
Venue: Sarawak Chamber 3

PID: 135. Perception Analysis of Social Networks’ Privacy Policy: Instagram as a case study
Shuhaili Talib, Sitti Munirah Abdul Razak, Akeem Olowolayemo, Melasari Salependi, Nur Fatihah Ahmad, Syakila Kunhamoo, and Siti Khalijah Bani.

PID: 46. Decision to Cast Vote: An Ordinal Regression Statistical Analysis
Muharman Lubis and Mira Kartiwi.

Juhaida Ismail, Nor Laila Md Noor and Wan Abdul Rahim Wan Mohd Isa.

PID: 144. Effects of perceived task complexity on the information types needed and information sources used by lawyers
Nafisat Adewale and Yushiana Mansor.

PID: 44. The Effect of IQ vs. EQ on Knowledge Management and Innovation
Noordin, MF and Karim, ZA.

Socio-Digital for Research, Innovation and Commercialization

SESSION 4D  Tuesday, November 18, 11:00 a.m. – 13:00 p.m.
Session Chair: Dr. Nuha Loling Othman, UNIMAS
Venue: Lady Suite

PID: 115. Organizational Factors, Perceived Acceptance and Behavioral Intention as Dimensions of Knowledge Management Readiness
Mohamed Jalaldeen Mohamed Razi, Nor Shahriza Abdul Karim and Norshidah Mohamed.

Azlin Nordin, Norsaremah Salleh and Lili Marziana Abdullah.

PID: 96. Responsible Tourism System Dynamic Planning Model for Rural Area
Khoo Wen Keat and Nadianatra bt Musa.

PID: 98. Combining Research Methodologies in the Information Privacy Model Study for Hospital Information Systems
Suhaila Samsuri and Zahidah Zulkifli.

PID: 42. Dearth of Information Technology Governance Studies in Developing Nations: Making Case for Nigeria
Binyamin Adeniyi Ajayi and Rashidah Funke Olanrewaju.
Socio-Digital for Research, Innovation and Commercialization

SESSION 4E  Tuesday, November 18, 11:00 a.m. – 13:00 p.m.
Session Chair: Dr. Mohamad Nazim Jambli, UNIMAS
Venue: Wind Suite 2

PID: 127. Text Normalization Algorithm for Facebook Chats in Hausa Language
Jaafar Zubairu Maitama, Usman Haruna, Abdullahi Ya'u Gambo, Bimba Andrew Thomas, Norisma Binti Idris, Abdulsalam Ya’u Gital, and Adamu I. Abubakar

PID: 51. Using Regular Expressions for Mining Data in Large Software Repositories
Normi Sham Awang Abu Bakar.

PID: 12. Trends and Perceptions of Evidence-based Software Engineering Research in Malaysia
Norsaremah Salleh and Azlin Nordin.

PID: 31. eSoulKitchen Program - Enhancing Societal Wellbeing and Wealth Creation for Orang Asli Community at Pos Selim, Perak
Abdul Rahman Ahmad Dahlan, Jamaludin Ibrahim, Noor Sakinah Aniza Binti Zakaria, Iryani Binti Ishak, Nur Nazihah Binti Rahim, and Nur Azrin Binti Abd Malek.

PID: 50. Development of gene motif modulation for information processing in artificial DNA computing
A.Faizul Shamsudin, Mohd. Adam Suhaimi, Ibrahim Ali Noorbatcha, Ummu Salamah Hussin, Alya Khadijah A. F., Nor Hidayah D.

PID: 13. Hybrid Modified Booth Encoded Algorithm-Carry Save Adder Fast Multiplier
Nik Ghazali Nik Daud, F.R.Hashim, Muhazam Mustapha & M.S.Badruddin.

13:00 p.m. – 14:00 p.m.  Lunch

14:00 – 16.30 p.m. Forum
Title: Socio-Digital Transformation for The Ummah: From Thoughts to Actions
Moderator: Prof. Dr. Abdul Wahab Abdul Rahman
Panelist 1: Tan Sri Prof. Dr. Mohd Kamal Hassan (CENTRIS)
Panelist 2: Dr. Halim Busari (UNIMAS)
Panelist 3: Tuan Haji Kamarudin Haji Dolmoin (JAKIM)

16:30 p.m. – 16:40 p.m.  Coffee Break

16:40 p.m. – 17:00 p.m.  Closing