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

Programme Book

ICT4M 2014

“Socio-Digital Transformation For The Ummah”

Riverside Majestic Hotel
Kuching, Sarawak, Malaysia
17th - 19th November 2014

Organised by:

Technical Sponsors:

IEEE MALAYSIA SECTION
IEEE COMPUTER SOCIETY
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Message From

VICE-CHANCELLOR UNIMAS
Professor Dato' Dr Mohamad Kadim bin Suaidi
Vice-Chancellor
University Malaysia Sarawak (UNIMAS)

Assalamualaikum and Salam Sejahtera, Salam UNIMASku sayang.

I welcome you to the Fifth International Conference on Information and Communication Technology for the Muslims World (ICT4M). I congratulate the International Islamic University Malaysia (IIUM) and Universiti Malaysia Sarawak (UNIMAS) on this successful conference collaboration.

Collaboration between UNIMAS and IIUM has been going on for many years in various capacities and formats. To formalise one of such collaborations is the signing of a Memorandum of Understanding (MOU) between the Faculty of Computer Science and Information Technology, UNIMAS with the Kulliyyah of Information and Communication Technology at the International Islamic University Malaysia. The MOU commits us to work together more closely towards our common goal, the pursuit of excellence in different areas with a deep sense of integration values in teaching, research and quality personality development of students, lecturers and staff. The MOU is a part of our Continuous Quality Improvement (CQI) strategy to periodically improve our curriculum to ensure the effectiveness of our teaching and learning activities. Our CQI strategy also focuses on research excellence and innovation in teaching and learning; internationalisation of academic programmes; human capital development; and increment of graduate employability.

I thank everyone who has poured in their dedication and effort to the fulfillment of the conference and MOU signing. I am sure UNIMAS and IIUM will continue to play an important role in strengthening research in the field of ICT, and consequently encourage continuous development and innovation not only in the state of Sarawak, but Malaysia as well.

To all participants of ICT4M, I hope you will take time to explore and enjoy the sights of Kuching and Sarawak, which you will discover that our humble home is truly unique and it is a place like no other. I wish all of you a constructive deliberation.
Message From

DEPUTY RECTOR (RESEARCH & INNOVATION) IIUM
Professor Mohamed Ridza Wahiddin, PhD, DSc
Deputy Rector (Research & Innovation)
International Islamic University Malaysia (IIUM)

Assalamu'alaikum warahmatullahi wabarakatuh

Alhamdulillah, all praises be to Allah subhanahu wata’ala

The information & Communication Technology for the Muslim World (ICT4M 2014) Conference will bring together many academics, researchers, postgraduate students and representatives from industry. More than a hundred participants from several countries, which include USA, Fiji, Thailand, Saudi Arabia, United Arab Emirates, Indonesia and Malaysia, are expected to share their latest research outputs and experiences.

On the theme of "Socio-Digital Transformation for the Ummah", ICT4M 2014 aims to forward the idea that the development and the use of advanced information and communication technology (ICT) may help improve and sustain a better social and individual life of a Muslim. Knowledge generated as the research outputs can greatly benefit the Muslim Ummah and the society at large in the spirit of "Rahmatan lil ‘Alamin". In fact ICT4M 2014 this year is a result of collaboration between the Kulliyyah of Information and Communication Technology (KICT), IIUM and the Faculty of Computer Science and Information Technology (FCSIT), UNIMAS, and hopefully this collaboration will bring new research ideas for the development of a greater Ummah.

In addition, Kuching has been chosen as the location for ICT4M this year, also in conjunction with "Visit Malaysia Year 2014". It is the capital city of the state of Sarawak, situated in the Borneo Island with many surprises. Do enjoy the beauty of Kuching and Malaysia in general. May the fond memories and experiences gained by our visitors bring them back to visit this beautiful country and us.

I thank and congratulate all persons and parties involved in organising ICT4M 2014 and may Allah subhanahu wata’ala bless our efforts.
Message From Deans

Prof. Dr. Abdul Wahab Abdul Rahman
Dean, Kulliyyah Information and Communication Technology, IIUM

Dr. Johari Abdullah
Dean, Faculty of Computer Science and Information Technology, UNIMAS

Assalamu'alaikum warahmatullahi wabarakatuh

Alhamdulillah, all praises be to Allah subhanahu wata'ala

The theme for the 5th International Conference on Information & Communication Technology for The Muslim World (ICT4M 2014) is Socio-Digital Transformation for the Ummah. In this era of social media and interaction it is inevitable for Muslims to make Information and Communication Technology (ICT) as an enabler and platforms for their daily activities at home, in the office or even on the move. Human in general finds it difficult to survive without their mobile devices even for a slight moment. ICT has penetrated into our lives from laptops to mobile phones and from medical to even performing our prayers. Thus it is important for the ICT4m 2014 to bring forward the implications of ICT impacting not only the adults but also our children and the younger children going to kindergartens.

This year ICT4M 2014 provides a new avenue and it is our first collaborative effort between the Kulliyyah of Information and Communication Technology (KICT), IIUM and the Faculty of Computer Science and Information Technology (FCSIT), UNIMAS. It is hope that with Allah blessings and guidance that a more fruitful collaboration between the two faculties and beyond can be achieved. The conference hopes to be the enabler for both educators and practitioners in this multi-disciplinary field of computing to gather and share with their latest research findings, services and products that can be utilised and empower the transformation of the Ummah for better well being.

The success of ICT4M 2014 depends on the effort and contribution of all involved in making ICT4M 2014 reality and with that we would like to convey our gratitude and thanks to all parties involved in planning, preparing this conference, especially the conference committee members from KICT, IIUM and FCSIT, UNIMAS. We would also like to extend our special thanks to the Sarawak Convention Bureau (SCB), CENTRIS, Sarawak Energy, Baitulmal Sarawak, the State Government of Sarawak, AIT, Mira Cake House, Leafbyte, Spicystudio, Creativcolor and other organisations that provide financial support and commitment to this conference.

Finally, we welcome you to Kuching and UNIMAS, and we hope that you will take advantage of many wonderful sights and attractions in the city, as well as the natural and man-made wonders nearby during your stay.
Message From General Co-Chairs

Assoc. Prof. Dr. Murni Mahmud, IIUM

Dr. Nadianatra Musa, UNIMAS

Assalamu'alaikum warahmatullahi wabarakatuh

It is with great pleasure we welcome all participants to the 5th International Conference on Information and Communication Technology For the Muslim World (ICT4M 2014) on 17th to 19th November 2014 in Kuching, Sarawak, Malaysia. The success of the previous four ICT4M, gathered academics, researchers, practitioners, professional and students in sharing their achievements, presenting best practices and challenges in the various fields of ICT among Muslim scholars, academician and industrialists.

This year, ICT4M 2014 is an outcome of a synergy and remarkable collaboration between Kulliyyah of Information and Communication Technology (KICT), IIUM and Faculty of Computer Science and Information Technology (FCSIT), UNIMAS. ICT4M 2014 is also co-sponsored by IEEE Malaysia Section and IEEE Computer Society.

91 papers will be presented in this year ICT4M based on the theme “Socio-Digital Transformation for the Ummah”. Three keynotes speakers, experts in their multi-disciplinary field will present some of their latest findings namely: Prof. Dr. Abdul Latif Haji Samian, Dr. Mazlan Abbas and Prof. Emeritus Dr. Alistair Sutcliffe. ICT4M 2014 will discuss the Socio-Digital Transformation For The Ummah: from Thoughts to Actions in a forum. The forum Panelists includes Tan Sri Prof. Dr. Mohd. Kamal Hassan, Dr. Abdul Halim Busari and Tuan Haji Kamarudin bin Hj. Dolmoin.

We thank the authors, presenters, keynote speakers, forum panelists, tutorial presenters and exhibitors for contributing to the intellectual content of the ICT4M 2014 program. We gratefully acknowledge the great support from the local and international reviewers who have done meticulous reviews. We like to record our heartfelt appreciation to all committee members from both IIUM and UNIMAS for the strong support and sacrifice to ensure the success of ICT4M 2014. Finally, we thank the Faculties at IIUM and UNIMAS and sponsors for providing various supports for the conference, forum and tutorials.

We hope the participants will enjoy ICT4M 2014 as a platform for intellectual and thought provoking discussions, building connection and strengthening networking among researchers.
from several parts of the world.

**Keynote Speaker 1**

Prof. Dr. Abdul Latif Haji Samian  
Principal Research Fellow,  
Institut Alam dan Tamadun Melayu (ATMA),  
Universiti Kebangsaan Malaysia

Prof. Dr. Abdul Latif Hj. Samian is currently a Professor of Philosophy and Principal Research Fellow at The Institute of The Malay World and Civilization, The National University of Malaysia (UKM). He is one of the founding members of The Center for the Promotion of Cross-Cultural Understanding USA, panel consultant for several organisations which include Dewan Bahasa dan Pustaka (History and Philosophy of Science) and Ministry of Higher Education (Islamic & Asian Civilization Course, Compulsory Course on Ethnic Relations).


He has presented four country reports in Association of Institutions of Higher Learning (ASAIHL) conferences, topics including Lifelong Learning and Knowledge Driven Economy, group leader for Malaysian Delegates of Experts in MABBIM. He has presented academic papers at several universities such as Nanyang Technological University, Harvard University, Oxford University, University of Vienna, University of Chicago, University of Calgary, Center for Professional and Applied Ethics Australia, Kyoto University, Lingnan University, Hubei University, University of Antwerp, Belgium and School of Oriental and African Studies (SOAS), University of London.

Apart from serving as a Member of the Board of Governors, Dewan Bahasa dan Pustaka, Prof. Dr. Abdul Latif is listed in the Marquis Who’s Who in the World, Principal of UKM Residential College Ungku Omar (1994-1998), Director of the Center for General Studies (1998-2008) and Director of The Institute of the Malay World and Civilization (2008-2013). He has also served as the UKM Senate member since 1998.
Keynote Speaker 2

Dr. Mazlan Abbas
Chief Executive Officer,
REDtone IOT

Dr. Mazlan is ranked No. 20th Thought Leader in IOT by 2014 Onalytics Report – “The Internet of Things - Top 100 Thought Leaders”. He has 30 years of experience and accomplishments in a senior management capacity primarily accountable for R&D, Product Development Innovation & Solutions, Technology Management, Network Operations and Academia.

Before joining REDtone, he spent 8 years in MIMOS Berhad as the Senior Director Wireless Communications Cluster where he is responsible to lead, strategise and manage the Applied R&D activities in Wireless Communications technology.

He also spent 13 years in CELCOM (mobile operator), handling many senior management positions (including R&D, Billing Operations, Technology & Technical Management, Network Administration & Management, Mobile Data, Integrated Business Solutions and Mobility Solutions). Prior to Celcom, he spent 10 years as an academician at Universiti Teknologi Malaysia.

Dr. Mazlan is a frequent speaker in many major & established IT and telco conferences locally and globally. He has served as MOSTI's Technofund and Science Fund (ICT Cluster) Technical & Commercial Evaluation Committee, Industry Advisory Panel (IAP) for several local universities. Currently he is an Adjunct Professor with UTHM.
Alistair Sutcliffe (MA Cantab-Natural Sciences, PhD Wales) is currently a Professor Emeritus at the University of Manchester. He is also a Visiting Professor at University College London and School of Computing & Communications, University of Lancaster. He was a Professor of Systems Engineering, and Director of the Centre for Human Computer Interaction (HCI) Design, in the School of Informatics, University of Manchester, UK. Originally at ethologist, he has worked in the IT and finance industry, the civil service and City and Manchester Universities.

His research spans software engineering and HCI. He has managed several EPSRC research grants, co-ordinated Esprit Basic Research project 3160 IDEAL, and was technical manager of the INTUITIVE consortium. His publications include 9 books and 250 articles, of which 105 are in software engineering and 145 in HCI.


Prof. Sutcliffe is a regular referee articles for Requirements Engineering, IEEE-TOSEM, IEEE-TSE, Software and Information Technology, BCS Software Engineering Journal, Interacting with Computers, ACM-TOCHI, TOIS and HCI & SE conferences. I have refereed grant proposals for the Joint Councils HCI/Cognitive Science initiative, EPSRC, ESRC and the National Science Foundation.

He founded IFIP TC-13 Working Group 13.2 Methodology for User Centred Design, is editor of the ISO standard 14915, on Multimedia user interface design, co-chaired the ACM conference Designing Interactive Systems 2002 and is co-chair of IEEE Requirements Engineering conference in 2007. Prof. Sutcliffe was awarded the IFIP Silver Core 2000, Best paper INCOSE 2002, Best paper Requirements Engineering 2005 and Lifetime Achievement Award in Requirements Engineering 2011.
FORUM SPEAKERS AND MODERATOR

Tan Sri Prof. Dr. Mohd. Kamal Hassan
Chairman,
CENTRIS, International Islamic University Malaysia

Dr. Abdul Halim Busari
Director,
Islamic Center, Universiti Malaysia Sarawak

Tuan Haji Kamarudin bin Hj. Dolmoin
Director,
Information Management Division,
Department of Islamic Development Malaysia

Prof. Dr. Abdul Wahab Abdul Rahman (Moderator)
Dean,
Kulliyyah of Information and Communication Technology,
International Islamic University Malaysia
<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00 am</td>
<td>Conference Registration</td>
<td>Foyer Level 3</td>
</tr>
<tr>
<td>08:30 - 08:45 am</td>
<td>Welcoming Remark</td>
<td>Sarawak Chamber 3</td>
</tr>
<tr>
<td>08:45 - 09:30 am</td>
<td>Keynote Speaker 1: Prof. Dr. Abdul Latif Samian</td>
<td>Sarawak Chamber 3</td>
</tr>
<tr>
<td>09:30 - 10:15 am</td>
<td>Keynote Speaker 2: Dr Mazlan Abbas</td>
<td>Sarawak Chamber 3</td>
</tr>
<tr>
<td>10:15 - 10:30 am</td>
<td>Tea Break</td>
<td>Foyer Level 3</td>
</tr>
<tr>
<td>10:30 - 12:00 pm</td>
<td>Opening Ceremony and MOU signing</td>
<td>Sarawak Chamber 3</td>
</tr>
<tr>
<td>12:00 - 12:45 pm</td>
<td>Press Conference</td>
<td>Deer Suite</td>
</tr>
<tr>
<td>12:00 - 12:45 pm</td>
<td>Keynote Speaker 3: Prof. Emeritus Dr. Alistair Sutcliffe</td>
<td>Sarawak Chamber 3</td>
</tr>
<tr>
<td>12:45 - 02:00 pm</td>
<td>Lunch</td>
<td>Sarawak Chamber 1</td>
</tr>
<tr>
<td>02:00 - 04:00 pm</td>
<td>Parallel Session 1A, 1B, 1C, ID, IE</td>
<td>Sarawak Chamber 2</td>
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<td></td>
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<td>Sarawak Chamber 3</td>
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<tr>
<td></td>
<td></td>
<td>Wind Suite</td>
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<tr>
<td></td>
<td></td>
<td>Deer Suite</td>
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<tr>
<td></td>
<td></td>
<td>Lady Suite</td>
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<tr>
<td>04:00 - 04:10 pm</td>
<td>Tea Break</td>
<td>Level 3 Foyer</td>
</tr>
<tr>
<td>04:10 - 06:00 pm</td>
<td>Parallel Session 2A, 2B, 2C, 2D, 2E</td>
<td>Sarawak Chamber 2</td>
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<tr>
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<td>Sarawak Chamber 3</td>
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<td></td>
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<td>Wind Suite</td>
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<td>Deer Suite</td>
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<td></td>
<td></td>
<td>Lady Suite</td>
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<tr>
<td>07:45 - 10:00 pm</td>
<td>Conference Dinner</td>
<td>Grand Margherita</td>
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<td>(Poolside)</td>
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### Day 2, 18th November 2014, Tuesday

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30 am</td>
<td>Conference Registration</td>
<td>Foyer Level 3</td>
</tr>
<tr>
<td>08:50 - 10:50 am</td>
<td>Parallel Session 3A, 3B, 3C, 3D, 3E</td>
<td>Sarawak Chamber 2, Sarawak Chamber 3, Wind Suite, Deer Suite, Lady Suite</td>
</tr>
<tr>
<td>10:50 - 11:00 am</td>
<td>Tea Break</td>
<td>Foyer Level 3</td>
</tr>
<tr>
<td>11:00 - 01:00 pm</td>
<td>Parallel Session 4A, 4B, 4C, 4D, 4E</td>
<td>Sarawak Chamber 2, Sarawak Chamber 3, Wind Suite, Deer Suite, Lady Suite</td>
</tr>
<tr>
<td>01:00 - 02:00 pm</td>
<td>Lunch</td>
<td>Sarawak Chamber 1</td>
</tr>
</tbody>
</table>
| 02:00 - 04:30 pm | Forum: *Socio-Digital Transformation For The Ummah: from Thoughts to Actions*  
                         Moderator: Prof. Dr. Abdul Wahab Abdul Rahman, IIUM  
                         Panelist 1: Tan Sri Prof. Dr. Mohd Kamal Hassan, IIUM  
                         Panelist 2: Dr Halim Busari, UNIMAS  
                         Panelist 3: Tuan Haji Kamarudin Haji Dolmoin, JAKIM | Sarawak Chamber 3 |
| 04:30 - 04:40 pm | Tea Break                                       | Foyer Level 3              |
| 04:40 - 05:00 pm | Closing Ceremony                                | Sarawak Chamber 3          |

### Day 3, 19th November 2014, Wednesday

**FCSIT, UNIMAS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
<th>Venue</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 am</td>
<td>Tutorial Registration</td>
<td>FCSIT, UNIMAS</td>
</tr>
</tbody>
</table>
| 09:30 am - 12:30 pm | Parallel Sessions:  
                         Tutorial 1: Prof. Dr. Abdul Wahab  
                         Tutorial 2: Prof. Emeritus Dr. Alistair Sutcliffe | General Lab 2, Teaching Lab 1 |
| 12:30 - 02:00 pm | Lunch                                           | Staff Lounge, FCSIT, UNIMAS |
| 02:00 - 05:00 pm | Tutorial 3: Asst. Prof. Dr. Norsaremah          | General Lab 2              |
# TENTATIVE PROGRAMME: OPENING CEREMONY ICT4M 2014

**SARAWAK CHAMBER 3**
Riverside Majestic Hotel

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
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<tbody>
<tr>
<td>10:25 - 10:30 am</td>
<td>Arrival of VIPs</td>
</tr>
<tr>
<td>10:30 - 10:40 am</td>
<td>Songs: <em>Negaraku</em></td>
</tr>
<tr>
<td>10:40 - 10:45 am</td>
<td>Quran and Du'a Recitation</td>
</tr>
</tbody>
</table>
| 10:45 - 10:55 am | Welcoming Speech  
*Prof. Dr. Mohamed Ridza Wahidin, Deputy Rector (Research And Innovation), International Islamic University Malaysia* |
| 10:55 - 11:10 am | Opening Speech  
*Prof Dato' Dr Mohamad Kadim bin Suaidi, Vice Chancellor, Universiti Malaysia Sarawak*               |
| 11:10 - 11:20 am | Gimmick and Multimedia Presentation                                                                  |
| 11:20 - 11:40 am | Signing of MOU between International Islamic University Malaysia and Universiti Malaysia Sarawak      |
| 11:40 - 11:50 am | Token of Appreciation                                                                                |
| 11:50 - 12:00 pm | Photo Session                                                                                         |
| 12:00 pm         | Press Conference & End of Ceremony                                                                    |
# TENTATIVE PROGRAMME: CLOSING CEREMONY ICT4M 2014

**SARAWAK CHAMBER 3**
Riverside Majestic Hotel

<table>
<thead>
<tr>
<th>Time</th>
<th>Activities</th>
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<tbody>
<tr>
<td>04:40 - 04:45 pm</td>
<td>Closing Remark</td>
</tr>
<tr>
<td>04:45 - 04:55 pm</td>
<td>Awards Giving</td>
</tr>
<tr>
<td>04:55 - 05:00 pm</td>
<td>Du'a Recitation</td>
</tr>
</tbody>
</table>
# COMMITTEE MEMBERS

**Honorary Chairs**
- Prof. Dato' Sri Dr. Zaleha Kamaruddin, Rector of IIUM
- Prof. Dato' Dr. Mohamad Kadim bin Suaidi, Vice-Chancellor of UNIMAS

**Steering Committee Co-chairs**
- Prof. Dr. Abdul Wahab Abdul Rahman, IIUM
- Dr. Johari Abdullah, UNIMAS

**General Co-Chairs**
- Assoc. Prof. Dr. Murni Mahmud, IIUM
- Dr. Nadianatra Musa, UNIMAS

**Technical Committee**
- Prof. Dr. Teddy Mantoro, Universitas Siswa Bangsa Internasional
- Prof. Dr. Mohamed Essaaidi, ENSIAS
- Dr. Ahmed Zeki, University of Bahrain
- Prof. Dr. Nor Shahriza Abd Karim, Prince Sultan University
- Dr. Fakhruil Hazman Yusoff, IEEE Malaysia
- Dr. Mohd Zaliman Mohd Yusof, IEEE Malaysia

**Secretariat/Website**
- Sr. Dini Handayani, IIUM

**Treasurer**
- Br. Ahmad Nizam Amran, IIUM
- Sr. Norsyazlin Zulkeffli, IIUM

**Sponsorship**
- Br. Jamaluddin Ibrahim, IIUM
- Br. Abdul Rahman Ahmad Dahlan, IIUM
- Dr. Zahidah Zulkifli, IIUM
- Dr. Nadianatra Musa, UNIMAS

**Keynote Speaker**
- Assoc. Prof. Dr. Normaziah Abdul Aziz, IIUM
- Assoc. Prof. Dr. Muhamad Fauzan Noordin, IIUM
- Dr. Shuhaili Talib, IIUM
- Dr. Adnan Shahid Khan, UNIMAS

**Tutorial**
- Dr. Mohamed Jalaldeen Mohamed Razi, IIUM
- Dr. Shuhaili Talib, IIUM
- Dr. Halikul Lenando, UNIMAS
- Dr. Mohamad Nazim Jambli, UNIMAS
- Dr. Irwandi Hipni b Mohd Hipiny, UNIMAS
- Sr. Rosita Mohamed Othman, UNIMAS
Floor Manager
Sr. Noor Azian Mohamad Ali, IIUM
Dr. Mohammad Hossin, UNIMAS

Opening Ceremony
Br. Syed Tahir Syed Mohamed, IIUM
Pn. Dayang Hanani Abang Ibrahim, UNIMAS
Pn. Seleviawati Tarmizi, UNIMAS
Pn. Inson Din, UNIMAS
Br. Norfadzlan Yusup, UNIMAS
Sr. Noor Hazlini Borhan, UNIMAS
Dr. Nuha Loling Othman, UNIMAS
Sr. Azlina Bt Ahmad Julaihi, UNIMAS
Hj. Ahmad Hadinata Bt Pauzi, UNIMAS

Dinner Program
Dr. Zainatul Shima Abdullah, IIUM
Pn. Dayang Hanani Abang Ibrahim, UNIMAS
Pn. Seleviawati Tarmizi, UNIMAS
Pn. Inson Din, UNIMAS
Br. Norfadzlan Yusup, UNIMAS
Sr. Noor Hazlini Borhan, UNIMAS
Dr. Nuha Loling Othman, UNIMAS
Sr. Azlina Bt Ahmad Julaihi, UNIMAS

Forum/Closing Ceremony
Assoc. Prof. Dr. Akram M.Z Khedher, IIUM
Dr. Aznan Zuhid Saidin, IIUM
Br. Muhd. Rosydi Muhammad, IIUM
Sr. Noor Azian Mohamad Ali, IIUM
Dr. Mohammad Hossin, UNIMAS
Dr. Hamimah Ujir, UNIMAS

Logistic/Exhibition
Sr. Noor Azian Mohamad Ali, IIUM
Dr. Zulkefli Muhammed Yusof, IIUM
Dr. Normi Sham Awang Abu Bakar, IIUM
Dr. Rizal Mohd Nor, IIUM
Br. Aminuddin Mat Resat, IIUM
Dr Dayang Nurfatimah Bt Awang Iskandar, UNIMAS
Dr. Azman Bujang Masli, UNIMAS
En. Adam Francis, UNIMAS
Pn. Yanti Rosmunie Bujang, UNIMAS
Pn. Suhaila Saee, UNIMAS
En. Abdul Rahman Mat, UNIMAS
Promotion
Dr. Amelia Ritahani Bt. Ismail, IIUM
Dr. Noor Azizah Bt. Mohamadali, IIUM
Dr. Suhaila Binti Samsuri, IIUM
Dr. Nadianatra Musa, UNIMAS

Registration
Dr. Lili Marziana Binti Abdullah, IIUM
Dr. Azlin Binti Nordin, IIUM
Pn. Rosita Mohamed Othman, UNIMAS

Schedule/Program Book
Dr. Norsaremah Salleh, IIUM
Dr. Asma Md Ali, IIUM
Dr. Adamu Abu Bakar Ibrahim, IIUM
Sr. Dini Handayani Oktarina, IIUM
Dr. Hamimah Ujir, UNIMAS

Speech Preparation
Assoc. Prof. Dr. Abdul Rahman Ahlan, IIUM
Assoc. Prof. Dr. Normaziah Abdul Aziz, IIUM
Dr. Aznan Zuhid Saidin, IIUM
Dr. Basri Hassan, IIUM
Br Jamaluddin Ibrahim, IIUM
Dr Dayang Nurfatimah Bt Awang Iskandar, UNIMAS

Paper Review/Proceeding
Assoc. Prof. Dr. Mira Kartiwi, IIUM
Dr. Ishaq Oyebisi Oyefolahan, IIUM
Dr. Adamu Abubakar Ibrahim, IIUM
Dr Dayang Nurfatimah Bt Awang Iskandar, UNIMAS

Presenter/Paper Award
Prof. Dr. Husnayati Hussin, IIUM
Prof. Dr. Asadullah Shah, IIUM
Prof. Dr. Abu Osman Md Tap, IIUM
Assoc. Prof. Dr Imad Fakhri Taha Alshaikhli, IIUM
Dr. Adnan Shahid Khan, UNIMAS
Dr. Mohammad Hossin, UNIMAS
Track Chairs

Prof. Dr. Husnayati Hussin, IIUM
Prof. Dr. Asadullah Shah, IIUM
Prof. Dr. Mohd Adam Suhaimi, IIUM
Prof. Dr. Abu Osman Md Tap, IIUM
Assoc. Prof. Dr. Mira Kartliwi, IIUM
Assoc. Prof. Dr Yushiana Mansor, IIUM
Assoc. Prof. Dr Imad Fakhri Taha Alshaikhli, IIUM
Assoc. Prof. Dr. Normaziah Abdul Aziz, IIUM
Assoc. Prof. Dr. Abdul Rahman Ahlan, IIUM
Dr. Al-Sakib Khan Pathan, IIUM
Dr. Lili Marziana Binti Abdullah, IIUM
Dr. M.M. Hafizur Rahman, IIUM
Dr. Normi Sham Awang Abu Bakar, IIUM
Dr. Ali Amer Alwan Al-Juboori, IIUM
Dr. Sherzod Turaev, IIUM
Dr. Kartinah Zen, UNIMAS
Dr. Adnan Shahid Khan, UNIMAS
LIST OF REVIEWERS

International:
• Abdul Rehman Gilal, Sukkur Institute of Business Administration, Pakistan
• Aries Susanto HT (IEEE Member), UIN Syarif Hidayatullah Jakarta, Indonesia
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- Lift

Sarawak Chamber | 3rd Floor
- Loading Platform (NE)ST
- Exit
- Stage
- Sarawak Chamber 3
- Sarawak Chamber 2
- Sarawak Chamber 1
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