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



"Socio-Digital Transformation For The Ummah"

Riverside Majestic Hotel Kuching - Sarawak - Malaysia 17"= 19" November 2014

Organised by 8



Technical Sponsors 8



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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 IiI '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.

Reynote 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 published articles in many journals which include Technology and Medicine in Non-Western Cultures, Journal Islamic Culture, Muslim Education Quarterly, Akademika, Sains Malaysiana, Pemikir, Kesturi, Hamdard Medicus, Jawhar, Islamiyyat, Journal of General Studies, Journal of Islamic Education, VirTEC, International Journal of Transcendent Philosophy, The International Journal of Religión and Science, Journal of Axiology and Ethics, and Analectca Husserliana.

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.

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Reynote 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.



Reynote Speaker 3

Prof. Emeritus Dr. Alistair Sutcliffe The University of Manchester



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.

He serves on the editorial boards of several journals in the software engineering and HCI which include ACM Transactions on Computer Human Interaction, Co-editor of Special issue of ACM-TOCHI on Data Mining in HCI, International Journal of Human Computer Studies (1995-2005), Journal for Automated Software Engineering, Requirements Engineering and Co-editor of Special edition of Interacting with Computers: John Long Festschrift.

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



SCHEDULE FOR ICT4M 2014

DATE OF CONFERENCE: 17th -18th NOVEMBER 2014 DATE OF WORKSHOP: 19th NOVEMBER 2014

HOTEL: Riverside Majestic Hotel

Day 1, 17 th November 2014, Monday		
Time	Activities	Venue
08:00 am	Conference Registration	Foyer Level 3
08:30 - 08:45 am	Welcoming Remark	Sarawak Chamber 3
08:45 - 09:30 am	Keynote Speaker 1: Prof. Dr. Abdul Latif Samian ATMA, Universiti Kebangsaan Malaysia Title: ICT and Philosophy: Harnessing the socio-digital transformation	Sarawak Chamber 3
09:30 - 10:15 am	Keynote Speaker 2: Dr Mazlan Abbas REDtone IOT <i>Title: Internet of Things (IOT) - Benefits</i> <i>for the Ummah</i>	Sarawak Chamber 3
10:15 - 10:30 am	Tea Break	Foyer Level 3
10:30 - 12:00 pm	Opening Ceremony and MOU signing	Sarawak Chamber 3
12:00 - 12:45 pm	Press Conference	Deer Suite
12:00 - 12:45 pm	Keynote Speaker 3: Prof. Emeritus Dr. Alistair Sutcliffe The University of Manchester, UK <i>Title: Socio Digital Offerings for the</i> <i>Societal Wellbeing</i>	Sarawak Chamber 3
12:45 - 02:00 pm	Lunch	Sarawak Chamber 1
02:00 - 04:00 pm	Parallel Session 1A, 1B, 1C, ID, IE	Sarawak Chamber 2 Sarawak Chamber 3 Wind Suite Deer Suite Lady Suite
04:00 - 04:10 pm	Tea Break	Level 3 Foyer
04:10 - 06:00 pm	Parallel Session 2A, 2B, 2C, 2D, 2E	Sarawak Chamber 2 Sarawak Chamber 3 Wind Suite Deer Suite Lady Suite
07:45 - 10:00 pm	Conference Dinner	Grand Margherita (Poolside)

Day 2, 18 th November 2014, Tuesday		
08:30 am	Conference Registration	Foyer Level 3
08:50 - 10:50 am	Parallel Session 3A, 3B, 3C, 3D, 3E	Sarawak Chamber 2 Sarawak Chamber 3 Wind Suite Deer Suite Lady Suite
10:50 - 11:00 am	Tea Break	Foyer Level 3
11:00 - 01:00 pm	Parallel Session 4A, 4B, 4C, 4D, 4E	Sarawak Chamber 2 Sarawak Chamber 3 Wind Suite Deer Suite Lady Suite
01:00 - 02:00 pm	Lunch	Sarawak Chamber 1
02:00 - 04:30 pm	Forum: <i>Title: Socio-Digital Transformation For</i> <i>The Ummah: from Thoughts to Actions</i> 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, 19 th November 2014, Wednesday FCSIT, UNIMAS			
Time	Activities	Venue	
09:00 am	Tutorial Registration	FCSIT, UNIMAS	
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

Time	Activities
10:25 - 10:30 am	Arrival of VIPs
10:30 - 10:40 am	Songs: Negaraku
10:40 - 10:45 am	Quran and Du'a Recitation
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

Time	Activities
04:40 - 04:45 pm	Closing Remark
04:45 - 04:55 pm	Awards Giving
04:55 - 05:00 pm	Du'a Recitation



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General Co-Chairs

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Keynote Speaker

Tutorial

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

Prof. Dr. Abdul Wahab Abdul Rahman, IIUM Dr Johari Abdullah, UNIMAS

Assoc. Prof. Dr. Murni Mahmud, IIUM Dr. Nadianatra Musa, UNIMAS

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Floor Manager

Opening Ceremony

Dinner Program

Forum/Closing Ceremony

Logistic/Exhibition

- Sr. Noor Azian Mohamad Ali, IIUM Dr. Mohammad Hossin, UNIMAS
- Br. Syed Tahir Syed Mohamed, IIUM
- Pn. Dayang Hanani Abang Ibrahim, UNIMAS
- Pn. Seleviawati Tarmizi, UNIMAS
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- En. Adam Francis, UNIMAS
- Pn. Yanti Rosmunie Bujang, UNIMAS
- Pn. Suhaila Saee, UNIMAS
- En. Abdul Rahman Mat, UNIMAS

Promotion

Registration

Schedule/Program Book

Speech Preparation

Paper Review/Proceeding

Presenter/Paper Award



Dr. Amelia Ritahani Bt. Ismail, IIUM Dr. Noor Azizah Bt. Mohamadali, IIUM Dr. Suhaila Binti Samsuri, IIUM Dr. Nadianatra Musa, UNIMAS

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

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Track Chairs

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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
- Husni Teja Sukmana (IEEE Member), UIN Syarif Hidayatullah Jakarta, Indonesia
- Mohammad Abdur Rashid, Massey University, Auckland, New Zealand
- Mustafa A. Kamal, University of Central Missouri, USA
- Nashrul Hakiem (IEEE Member), UIN Syarif Hidayatullah Jakarta, Indonesia
- Paul Krause, University of Surrey, Guildford, Surrey, UK
- Sakirin Tam, Fatoni University, Thailand
- Wong Kok-Seng, Soongsil University, Korea
- · Zeashan Khan (IEEE Member), Riphah International University, Islamabad

National:

- Abdul Rahman Ahlan, International Islamic University Malaysia
- Abdul Rahman Ahmad Dahlan, International Islamic University Malaysia
- Abdul Wahab Abdul Rahman (IEEE Member), International Islamic University Malaysia
- Adamu Abubakar Ibrahim, International Islamic University Malaysia
- Afidalina Tumian (IEEE Member), International Islamic University Malaysia
- Ahmad Rafi Mohamed Eshaq, Multimedia University, Malaysia
- Akram Mzm Khedher (IEEE Member), International Islamic University Malaysia
- AI-Sakib Khan Pathan (IEEE Member), International Islamic University Malaysia
- Ali Amer Alwan Al-Juboori, International Islamic University Malaysia
- Asadullah Shah, International Islamic University Malaysia
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- Azaliza binti Zainal, Universiti Selangor, Malaysia
- Azlin Nordin (IEEE Member), International Islamic University Malaysia
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- Marini Othman, International Islamic University Malaysia
- Masitah Ghazali (IEEE Member), Universiti Teknologi Malaysia, Malaysia
- Messikh Azeddine, International Islamic University Malaysia
- Mira Kartiwi, International Islamic University Malaysia
- Mohamad Nazim Jambli, Universiti Malaysia Sarawak, Malaysia
- Mohamad Nizam Ayub, University of Malaya, Malaysia
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- Mohammad Tahir, MIMOS, Malaysia
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- Mohd Hasan Selamat, Universiti Putra Malaysia
- Mohd Heikal bin Husin (IEEE Member), Universiti Sains Malaysia
- Mohd Izzuddin Mohd Thamrin, International Islamic University Malaysia
- Mohd Khairie Ahmad, Universiti Utara Malaysia
- Mohd Sanusi Azmi, Universiti Teknikal Malaysia Melaka, Malaysia
- Mohd Sanusi Bin Azmi, Universiti Teknikal Malaysia Melaka, Malaysia
- Mohd Syarqawy Hamzah, International Islamic University Malaysia
- Mohd Zaliman Mohd Yusoff (IEEE Member), Universiti Tenaga Nasional, Malaysia
- Mohdhasan Selamat, Universiti Putra Malaysia
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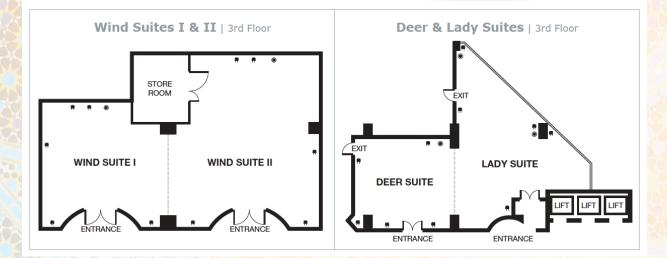
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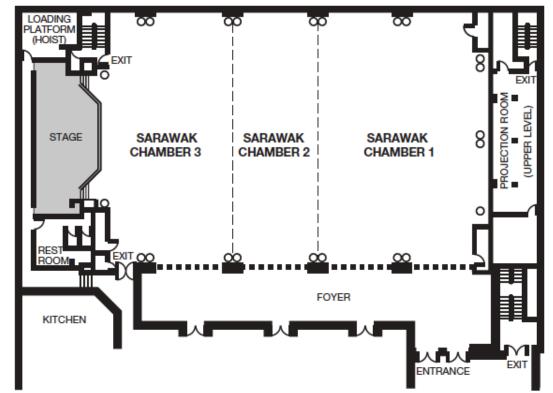
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