

PERSONAL INFORMATION			
Name	SITI MARIAM BINTI ABDUL RAHMAN		
Position	Senior Lecturer		
Telephone	03 - 5544 2976	Fax	03 - 5543 5160
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ACADEMIC QUALIFICATION			
2014	PhD from Control and Simulation Division, Aerospace Engineering Faculty, Delft University of Technology, The Netherlands		
2009	MSc. from Control and Simulation Division, Aerospace Engineering Faculty, Delft University of Technology, The Netherlands		
2005	BEng (Hons) (Mechanical Engineering) from Mechanical Engineering Faculty, University Kebangsaan Malaysia		
PROFESIONAL MEMBERSHIP/SOCIETY			
<ol style="list-style-type: none"> 1. Ordinary Member, Society of Engineering Education Malaysia (SEEM) 2. Graduate Engineer, Board of Engineers Malaysia (BEM) 			
SUBJECT TAUGHT			
Titles		Contact Hours	
MEC420	Dynamics	4 hours/week	
MEC500	Numerical Methods with Application	4 hours/week	
RESEARCH AREAS			
<ol style="list-style-type: none"> 1. Human – Machine Interaction 2. Air Traffic Control 3. Air Traffic Management 4. Ecological Interface Design 			
ON-GOING RESEARCH GRANTS			
<ol style="list-style-type: none"> 1. Assessing Mental Workload Associated with Air Traffic Control Activities, Research Acculturation Grant Scheme (RAGS) : RM 80 000 2. Characterisation of Air Traffic Movement Behaviour and Risk Factors, Fundamental Research Grant Scheme (FRGS) : RM 128 400 			
ON-GOING RESEARCH STUDENT SUPERVISION			

Postgraduate

1. **Muhammad Fuad bin Sidik**, "Assessing Air Traffic Movement Behaviour in Procedural and Radar Control for Kuala Lumpur Flight Information Region (KL FIR)" (2015 - Ongoing)
2. **Fiza Hazren binti Nazer**, "Complexity and Risk Factors of Mental Workloads Leading to Air Traffic Incidents in Kuala Lumpur Flight Information Region (KL FIR)" (2015 – Ongoing)

Undergraduate

1. **Engku Muhammad Syarifuddin bin Engku Rahan**, "Development of Flight Strip Bay in Understanding Controller Strategy of Safe Separation during Operation" (2015 – Ongoing)
2. **Azmin bin Jalaludin**, "Electronic Flight Strip for Malaysia's Air Traffic Controller: A Study on Mental Workload" (2015 – Ongoing)
3. **Mohammed Afzal bin Zubir**, "Flight plan data conversion towards geographic coordinate system" (2015 – Ongoing)
4. **Muhammad Faisal bin Azari**, "Exhibiting Kuala Lumpur Flight Information Region (KL FIR) Traffic in 24 Hours Flight Time" (2015 – Ongoing)
5. **Muhammad Firdaus A'fif bin Mohd Sukuri**, "Identifying Bottleneck in Kuala Lumpur Flight Information Region (KL FIR) in Increasing Number of Traffic" (2015 – Ongoing)
6. **Muhammad Syazzani bin Abu Jamil**, "Airport Inbound-Outbound Capacity vs. Airspace Capacity: A study on Current Sectorisation in Kuala Lumpur Flight Information Region (KL FIR) " (2015 – Ongoing)

SELECTED RECENT PUBLICATIONS

1. **S. M. B. Abdul Rahman**, C. Borst, M. Mulder and M. M. van Paassen, Solution Space Diagram in Conflict Detection Scenarios, (2015) Jurnal Teknologi, 75 (8), pp. 53-58.
2. **S. M. B. Abdul Rahman**, C. Borst, M. Mulder and M. M. van Paassen, Sector Complexity Measures: A Comparison, (2015) Jurnal Teknologi, 76 (11), pp. 131-139.
3. **S. M. B. Abdul Rahman**, Solution Space-based Approach to Assess Sector Complexity in Air Traffic Control, 2014, ISBN: 978-94-6186-255-6.
4. **S. M. B. Abdul Rahman**, C. Borst, M. Mulder and M. M. van Paassen, "Using the Solution Space Diagram to Map Sector Complexity", International Conference on Human-Computer Interaction in Aerospace (HCI-Aero), 12-14 Sept, 2012, Brussels, Belgium.
5. **S. M. B. Abdul Rahman**, C. Borst, M. Mulder and M. M. van Paassen, "Measuring Sector Complexity: Solution Space-based Method", Chapter 2 from Advances in Air Navigation Services, Edited by Prof. Tone Magister, August 2012, ISBN 978-953-51-0686-9.
6. **S. M. B. Abdul Rahman**, M. Mulder and M. M. van Paassen, "Using the Solution Space Diagram in Measuring the Effect of Sector Complexity During Merging Scenario", AIAA Guidance, Navigation and Control Conference, 8th – 11th Aug 2011, Portland, Oregon.
7. **S. M. B. Abdul Rahman**, M. Mulder and M. M. van Paassen, "The Effects of Air Traffic Control Sector Design on the Solution Space Diagram". Proceedings of the 28th European Conference on Cognitive Ergonomics, Delft, The Netherlands 25-27 August 2010. ISBN 978-94-90818-04-3.
8. **S. M. B. Abdul Rahman**, "Network Analysis on Traffic through Malaysian Airspace", Technical report, NLR-TR-2008-585, National Aerospace Laboratory (2008)

AWARD / RECOGNITION

1. Presenter, Colloquium "Road to PhD" Bil 3/2014, 21 July 2014.
2. Best Paper Award, 4th International Conference on Advances in Mechanical Engineering