

JOINT CONFERENCE 2015 SCHEDULE

29th March 2015, Sunday						
1700 - 1830	Registration					
30th March 2015, Monday						
0830 - 0930	Keynote Address I: "Recent Advances in Gravitational Search Algorithm" Associate Professor Dr. Zuwairie Ibrahim <i>Sri Mas Grand Ballroom</i>					
0930 - 1015	Opening Ceremony <i>Sri Mas Grand Ballroom</i>					
1015	Tea Break					
1030 - 1130	Keynote Address II "Microforming Process and Process Realization for Micro-scaled Product Development" Associate Professor Dr. Fu Ming Wang <i>Sri Mas Grand Ballroom</i>					
1130 - 1230	Keynote Address III "Regenerative Biomaterials" Professor Dr. PE Seeram Ramakrishna <i>Sri Mas Grand Ballroom</i>					
1230	Lunch Break					
1400 - 1600	ICADME A1 <i>Applied Mechanics I</i> (Sri Mas 1)	ICADME A2 <i>Design & Manufacturing I</i> (Sri Mas 3)	ICoBE B1 <i>Biomedical Signal & Image Processing I</i> (Sri Perak 1)	ICoBE B2 <i>Biomedical Signal & Image Processing II</i> (Sri Perak 3)	ICoMMS C1 <i>Circuits System and Automation I</i> (Sri Delima)	ICoMMS C2 <i>Circuits System and Automation II</i> (Sri Gangsa)
1600	Tea Break					
1615 - 1800	ICADME A3 <i>Applied Mechanics II</i> (Sri Mas 1)	ICADME A4 <i>Thermofluid & Energy I</i> (Sri Mas 3)	ICoBE B3 <i>Biomedical Signal & Image Processing III</i> (Sri Perak 1)	ICoBE B4 <i>Biomedical Devices & Others I</i> (Sri Perak 3)	ICoMMS C3 <i>Circuits System and Automation III</i> (Sri Delima)	ICoMMS C4 <i>Artificial Intelligence I</i> (Sri Gangsa)

* Registration is opened 0830-1700 on 30th March 2015 and 0830-1230 on 31st March 2015.

** Location of room: **Level 4:** Sri Mas 1, Sri Mas 3, Sri Perak 1, Sri Perak 3, Sri Delima, **Level 2:** Sri Gangsa

JOINT CONFERENCE 2015 SCHEDULE

31st March 2015, Tuesday						
0830 - 1030	ICADME A5 <i>Applied Mechanics III</i> (Sri Mas 1)	ICADME A6 <i>Design & Manufacturing II</i> (Sri Mas 3)	ICoBE B5 <i>Biomedical Signal & Image Processing IV</i> (Sri Perak 1)	ICoBE B6 <i>Biomedical Devices & Others II</i> (Sri Perak 3)	ICoMMS C5 <i>Artificial Intelligence II</i> (Sri Delima)	ICoMMS C6 <i>Robotics</i> (Sri Gangsa)
1030	Tea Break					
1045 - 1230	ICADME A7 <i>Applied Mechanics IV</i> (Sri Mas 1)	ICADME A8 <i>Design & Manufacturing III</i> (Sri Mas 3)	ICoBE B7 <i>Biomedical Devices & Others III</i> (Sri Perak 1)	ICoBE B8 <i>Biomedical Devices & Others IV</i> (Sri Perak 3)	ICoBE B9 <i>Biomedical Signal & Image Processing V</i> (Sri Delima)	ICoMMS C7 <i>Circuits System and Automation IV</i> (Sri Gangsa)
1230	Lunch Break					
1400 - 1600	ICADME A9 <i>Applied Mechanics V</i> (Sri Mas 1)	ICADME A10 <i>Design & Manufacturing IV</i> (Sri Mas 3)	ICoBE B10 <i>Biomedical Devices & Others V</i> (Sri Perak 1)	ICoBE B11 <i>Biomaterials and Biomechanics & Rehabilitation</i> (Sri Perak 3)	ICADME A11 <i>Thermofluid & Energy II</i> (Sri Delima)	ICoMMS <i>Tutorial & ICoMMS Closing</i> (Sri Gangsa)
1600	Tea Break & Dismiss					

* Registration is opened 0830-1700 on 30th March 2015 and 0830-1230 on 31st March 2015.

** *Location of room:* **Level 4:** Sri Mas 1, Sri Mas 3, Sri Perak 1, Sri Perak 3, Sri Delima, **Level 2:** Sri Gangsa

TECHNICAL SESSIONS



**International Conference on Applications and Design
in Mechanical Engineering 2015 (ICADME 2015)**

TECHNICAL SESSION

SESSION A1



International Conference on Applications and Design in
Mechanical Engineering (ICADME 2015)

30th March 2015, Sri Mas 1 (14:00-16:00)

Session A1: Applied Mechanics I

Chair: Dr. Mohd. Shukry Bin Abdul Majid

Co-Chair: Mr. Ahmad Syayuti Bin Abdul Rahman

1400	A1-1	The Effect of Loading Mode on Fracture Toughness of Arcan Adhesive Joint K.Prakash, K.S.Basaruddin, M.A.Rojan, H.Idrus
1415	A1-2	Foot Kinematics during Running: A Review N.A.A.Abdul Yamin, W.M.R.Rusli, K.S.Basaruddin, N.Abd Razak, A.F.Salleh
1430	A1-3	PLC Trainer Kit Simulator, the Improvement Tool for Automation Study in Polimas M.Mahadi, N.A.M.Amin, M.Ab Rahim, M.S.Abdul Majid
1445	A1-4	Study of PWHT of EN-WB 36 welded material for high pressure application in Power Plants M.Sarwar, N.A.Mohd Amin
1500	A1-5	Characterization Of Biaxial Fatigue By Using Strain Energy Density Approach For Steel S.A.Mohamed Noor, S.Abdullah, A.K.A.Ihsan, A.Arifin, M.M.Padzi
1515	A1-6	Determining the Behaviour of Fatigue Strain Histories of Vehicle Coil Springs by Using Statistical Inferences M.Mahmud, S.Abdullah, A.K.Ariffin, Z.Mohd Nopiah, M.F.Mohd Yunoh, N.I.I.Mansor
1530	A1-7	Development of an Indigenous Impedance Tube W.H.Tan, R.Ahmad, R.Daud, E.M.Cheng
1545	A1-8	Effect of Heat Treatment on Microstructure, Hardness and Wear of Aluminum Alloy 332 F.Zainon, K.R.Ahmad, R.Daud

TECHNICAL SESSION

SESSION A2



International Conference on Applications and Design in Mechanical Engineering (ICADME 2015)

30th March 2015, Sri Mas 3 (14:00-16:00)

Session A2: Design & Manufacturing I

Chair: Dr. Haftirman

Co-Chair: Mr. Mohd Hafif Basha Bin Mohamad Jamel Basha

1400	A2-1	Robotic Arm Design for Coconut-Tree Climbing Robot R.K.Megalingam, P.Thejus, P.Allan, V.Trayesh, M.Gokul
1415	A2-2	RotoPower – A Real Time Electricity Source Based on Rotational Motion R.K.Megalingam, A.Baburaj, K.Sreekanthan, A.Mattathil, A.Hari
1430	A2-3	Implementation of Gesture Control in Robotic Arm using Kinect Module R.K.Megalingam, D.Menon, N.Ajithkumar, N.Saboo
1445	A2-4	Indirect Additive Manufacturing (AM) of Apatite-Wollastonite (A-W) Glass-Ceramic for Medical Implants S.F.Khan, K.W.Dalgarno, R.A.Siregar
1500	A2-5	Study of Impact Behavior of Aluminum Thin Plate R.A.Siregar, S. F. Khan, C.T.Foo
1515	A2-6	Comparative Study of Rapid Upper Limb Assessment (RULA) and Rapid Entire Body Assessment (REBA) between Conventional and Machine Assisted Napier Grass Harvest Works M.K.F.Abd Rahman, A.B.Shahriman, H.Desa, R.Daud, Z.M.Razlan, W.K.Wan Ahmad
1530	A2-7	Conceptual Design for Oil Palm Evacuation to Improve Ergonomics Issues of Collecting Fresh Fruit Bunch A.B.Shahriman, M.L.Norzan, B.M.T.Shamsul, B.M.Deros, A.S.Rambely, Y.G.Ng, Z.M.Razlan, W.K.Wan Ahmad, H.Desa
1545	A2-8	Design and Fabrication of Hybrid Vehicle for Disabled Persons E.Bhaskaran

TECHNICAL SESSION

SESSION A3



International Conference on Applications and Design in
Mechanical Engineering (ICADME 2015)

30th March 2015, Sri Mas 1 (16:15-18:00)

Session A3: Applied Mechanics II

Chair: Dr. Zuradzman Bin Mohamad Razlan

Co-Chair: Dr. Mohd Sani Bin Mohamad Hashim

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|------|------|---|
| 1615 | A3-1 | Finite Element Modeling of Intermetallic Compound (IMC) Solder Joints Fracture: Part A
E.P. Ooi, R.Daud, N.A.M.Amin, W.H.Tan, M.S. Abdul Majid, M.A.Rojan, A.Mohamad, A.K.Ariffin |
| 1630 | A3-2 | Finite Element Modeling of Intermetallic Compound (IMC) Solder Joints Fracture: Part B
E.P. Ooi, R.Daud, N.A.M.Amin, W.H.Tan, M.S. Abdul Majid, M.A.Rojan, A.Mohamad, A.K.Ariffin |
| 1645 | A3-3 | Effect Of Stiffness Ratio Of Piecewise-Linear Spring On The Occurrence Of Subharmonic Nonlinear Vibration In Automatic Transmission Powertrain
T.Ryu, S.Rosbi, K.Matsuzaki, T. Nakae, A.Sueoka, Y.Ooi |
| 1700 | A3-4 | Effects of Alkaline Concentrations on the Tensile Properties of Napier Grass Fibre
M.R.Mohd Jamir, M.S.Abdul Majid, M.A.Rojan, S.N.A.Kanafiah, M.B.M.Nuriman |
| 1715 | A3-5 | Effects of Temperatures on the Compressive Strength of Napier Grass Filler-Filled Unsaturated Polyester Resin
F.Mohd Suhut, M.S.Abdul Majid, M.A.Rojan, A.Mohamad |
| 1730 | A3-6 | Burst Strength Of Glass Fibre/Epoxy Composite Pipes Subjected To Low Velocity Impact Loading
H.Ahmad, M.S.Abdul Majid, M.A.Rojan, H.F.A.Marzuki, P.Krishnan, N.A.M.Amin |
| 1745 | A3-7 | Assessment of Fatigue Strength in Small-Specimen of AISI 3140 Steel
H.Idrus, K.S.Basaruddin, M.A.Rojan, S.Abdul Rahman |

TECHNICAL SESSION

SESSION A4



International Conference on Applications and Design in
Mechanical Engineering (ICADME 2015)

30th March 2015, Sri Mas 3 (16:15-18:00)

Session A4: Thermofluid & Energy I

Chair: Dr. Nasrul Amri Bin Mohd Amin

Co-Chair: Mr. Muhammad Sofwan Bin Mohamad

1615	A4-1	CFD modelling and validation of Newtonian and non-Newtonian fluids in curved conduits A.Yousif , A.Japper
1630	A4-2	Consistency of Electrical Analogy Approach in the Prediction of Through Thickness Thermal Conductivity of FRP Composites with Orientation of the Square Unit Cell T.Srinivasa Rao, S.Rao, U.M.Gow
1645	A4-3	Effect Of Porosity On Circle Grid Perforated Plate Performance as A Static Mixer In Laminar Flow B.Manshoor, M.Z.Mat Loddin, A.Khalid, I.Zaman
1700	A4-4	Experimental Investigation on the Effect of Baffle Cut in a Shell and Tube Heat Exchanger V.K.Kandasamy, S.Muthusamy
1715	A4-5	Finite Element Analysis of Heater Length in a Porous Annulus - Part A G.A.Quadir, N.J.S.Ahmed, A.A.A.A.Al-Rashed, I.A.Badruddin, H.M.T.Khaleed, S.Kamangar
1730	A4-6	Finite Element Analysis of Heater Length in a Porous Annulus - Part B A.A.A.A.Al-Rashed, S.N.J.Ahmed, G.A.Quadir, H.M.Tkhaleed, I.A.Badruddin, Y.T.M.Khan, S.Kamangar
1745	A4-7	Preliminary CFD Investigation of Syngas Combustion at Different Operating Pressure N.Mat Zian, H.Hasini, N.I.Om

TECHNICAL SESSION

SESSION A5



International Conference on Applications and Design in
Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Mas 1 (08:30-10:30)

Session A5: Applied Mechanics III

Chair: Dr. Ruslizam Bin Daud

Co-Chair: Dr. Yakubu Dan-Mallam

0830	A5-1	Elasto-Plastic Deformation of Colony Boundaries in Pearlite Microstructure by Finite Element Analyses L.Roslan, T.Ohashi, Y.Yasuda, C.Suruga
0845	A5-2	Failure Investigation Of Tubular Adhesive Dissimilar Joint M.F.Baharudin, W.M.Syafiq, M.A.Rojan, N.G.Chuen, A.B.Shahriman
0900	A5-3	Full Factorial Design Analysis on Mechanical Properties of Electron Beam Irradiated-Flame Retarded LDPE/EVA Composites T.T.Tee, S.T.Bee, A.Hassan, C.T.Ratnam, T.S.Lee, C.Y.Low
0915	A5-4	Hot Set Characterization of Electron Beam Irradiated-Copper (II) Oxide Added LDPE Composites under Acidic Aging T.T.Tee, S.T.Bee, T.S.Lee, C.T.Ratnam, H.K.Jogindar Singh, C.Y.Low
0930	A5-5	Fatigue Performance of Hybrid Adhesive Dissimilar Joint K.Hafizan, M.A.Rojan, A.Logashanmugam
0945	A5-6	Finite Element Analysis On Robotic Arm For Waste Management Application Z.B.Razali, N.A.Datu Derin
1000	A5-7	The Relationship between Strain Energy Release Rate with Crack-To-Width Ratio of Human Phalanx bone S.A.Abdul Halim, R.Daud, Y.Bajuri, S.K.Zaaba, K.S.Basaruddin, N.A.Md Zain, N.N.Mansor
1015	A5-8	Finite Element Stress Analysis of Adhesive T-Joint with Crack in Fluidization Bed A. Nor, M.A.Rojan, M.S.Abdul Majid, B.Izzawati, S.Nurhashima, A.R. Abdullah

TECHNICAL SESSION

SESSION A6



International Conference on Applications and Design in Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Mas 3 (08:30-10:30)

Session A6: Design & Manufacturing II

Chair: Dr. Shah Fenner Khan Bin Mohamad Khan

Co-Chair: Dr. Nasrul Amri Bin Mohd Amin

0830	A6-1	Design and Manufacture of Recurve Bow Riser Using Fused Deposition Modeling and Fibre-Reinforced Composite Material S.Maidin, M.H.Jaafar,
0845	A6-2	Determining the Accuracy of the Life Determination Analysis for Low Carbon Steel N.I.I.Mansor, S.Abdullah, A.K.Ariffin, M.Mahmud
0900	A6-3	Direct Modelling CAD Technology Comparative Review In Efficiency And Productivity For Product Development Process M.Q.Ibrahim, N.Hassim, A.A.Yusof, S.Z.Abdul Mutalib
0915	A6-4	Analysis of Bending behavior of Laminated Composite Beam R.Arravind, M.Saravanan, K.Balasubramanian
0930	A6-5	FSI Analysis of the Effect of Aspect Ratio of Stacked Chip in Encapsulation Process of Moulded Underfill Packaging M.H.H.Ishak, M.Z.Abdullah, M.K.Abdullah, A.Abdul Aziz, W.K.Loh, R.C.Ooi, C.K.Ooi
0945	A6-6	Meta-Heuristics for Loop Layout Design Problem in Flexible Manufacturing System M.Saravanan, S.Ganesh Kumar, M.Rajkumar
1000	A6-7	Minimising Material Handling Cost using Relative Factors for Fixed Area Cell Layout Problem P.V.Arulkumar, M.Saravanan
1015	A6-8	Numerical Study of Mold Filling during Microelectronic Encapsulation Process M.F.Hamid, M.K. Abdullah, H.Yusoff, S.M.Firdaus, M.Z.Abdullah, Z.M.Ariff, M.A.Azmi

TECHNICAL SESSION

SESSION A7



International Conference on Applications and Design in Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Mas 1 (10:45-12:30)

Session A7: Applied Mechanics IV

Chair: Dr. Khairul Salleh Bin Basaruddin

Co-Chair: Dr. Md Tasyrif Bin Abdul Rahman

1045	A7-1	Evaluation of Adhesive T-Joint Using Finite Element Analysis B.Izzawati, M.A.Rojan, S.Nurhashima, A.Nor, A.R.Abdullah, R.Daud
1100	A7-2	Influence of Heat Treatment and Surface Roughing to the Adherent Surface and Adhesion Strength: A Review N.Atikah, M.A.Rojan, N.Amira, M.N.Mazlee
1115	A7-3	Interfacial Shear Stress in Kenaf/Polyethylene Terephthalate Fiber Reinforced Polyoxymethylene Composite Y.Dan-Mallam, M.S.Abdul Majid, M.Z.Abdullah
1130	A7-4	Investigation of Flexure Strength on Carbon Fiber Reinforced Epoxy (CFRE) for Aircraft Panel S.Abdul Rahman, H.Idrus, K.S.Basaruddin, M.S.Abdul Manan
1145	A7-5	Two Way Assessments in Measuring Vibration Exposure among Workers: A Review N.K.Khamis, B.M.Deros, F.R.Ismail
1200	A7-6	Objective Assessment of Vibration Exposure among Workforces: A Review N.K.Khamis, B.M.Deros, M.Z.Nuawi, F.R.Ismail
1215	A7-7	Nonlinear Dynamic Analysis of Cantilever Beam Using POD Based Reduced Order Model A.Kulkarni, M.Pandey

TECHNICAL SESSION**SESSION A8**

International Conference on Applications and Design in Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Mas 3 (10:45-12:30)

Session A8: Design & Manufacturing III

Chair: Dr. Fauziah Binti Mat

Co-Chair: Mrs. Hafizawati Binti Zakaria

1045	A8-1	Application of Parallel Flow Line Scheduling Using GA K.Balasubramanian, S.Rajendran, N.Rajeswari
1100	A8-2	Crack Initiation Mechanism of a Cast Hybrid MMC in Low Cycle Fatigue AKM.Asif Iqbal, Y.Arai
1115	A8-3	Response Surface Methodology Modeling Of Drill Exiting Damage Factor In High Speed Drilling Of GFRP Using HSS Twist Drill Bit T.K.Woo, F.Ahmad, S.Sharif
1130	A8-4	Reverse Engineering and Structural Analysis of Radiator Fan Blades D.Vijayaganapathy, K.Balasubramaniam
1145	A8-5	Study on Wing Aspect Ratio on the Performance of a Gliding Robotic Fish M.Y.Javaid, M.Ovinis, T.Nagarajan, S.S.A.Ali, B.Ullah.
1200	A8-6	Failure Stress Analysis of Adhesive T-Joint under Moisture Condition S.Nurhashima, M.A.Rojan, B.Izzawati, A.Nor, A.R.Abdullah, N.A.M.Amin, M.S.Abdul Majid, R.Daud
1215	A8-7	Suitability of Driving Simulators as a Tool to Study Driving Fatigue due to Vibration and Environment – A Review F.R.Ismail, M.Z.Nuawi, N.K.Khamis

TECHNICAL SESSION

SESSION A9



International Conference on Applications and Design in Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Mas 1 (14:00-16:00)

Session A9: Applied Mechanics V

Chair: Dr. Mohd Sani Bin Mohamad Hashim

Co-Chair: Dr. Mohd Afendi Bin Rojan

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|------|------|---|
| 1400 | A9-1 | Effect of Aging in Acidic Condition on Mechanical Properties of Copper (II) Oxide Added LDPE Composites
T.T.Tee, S.T.Bee, T.S.Lee, C.T.Ratnam, H.K.Jogindar Singh, C.Y.Low |
| 1415 | A9-2 | Effect of Electron Beam Irradiation on Mechanical Properties of Copper (II) Oxide Added LDPE Composites Aged under Acidic Condition
T.T.Tee, S.T.Bee, T.S.Lee, C.T.Ratnam, H.K.Jogindar Singh, C.Y.Low |
| 1430 | A9-3 | Porous Solid Carbon Dioxide Adsorbent using Cost Effective Materials: A Review
Y.Yasmin, M.N.Mazlee, W.H.Chan, J.B.Shamsul, R.Azmi |
| 1445 | A9-4 | Study Of Vibration Absorbers Using Epoxy Reinforced Natural Fibers
I.Zaman, M.R.Abdurasad, B.Manshoor, A.Khalid, M.S.M.Sani |
| 1500 | A9-5 | Study On Dynamic Behaviour Of Grass Trimmer Using Finite Element Analysis
I.Zaman, M.R.Abdurasad, B.Manshoor, A.Khalid, M.S.M.Sani |
| 1515 | A9-6 | Surface Roughness and MRR Analysis Effect in CNC Turning Machining with Aluminum Alloy 6061 Material
A.Abdallah, B.Rajamony, A.Embark |
| 1530 | A9-7 | The Effect of Gas Metal Arc Welding-Cold Metal Transfer (GMAW-CMT) Parameters on Surface Roughness of AA6351
S.Yacob, N.Ariffin, R.Ali, A.Arshad, M.I.Abdul Wahab, S.A.Ismail, N.S.Mat Roji, W.I.Wan Din, M.H.Zakaria, A.Abdullah, M.I.Yusof, K.Z.Kamarulzaman, A.Mahyuddin, M.N.Hamzah, R.Roslan |
| 1545 | A9-8 | The Effect Of Mesh Size And Frictional Force On Simulation Of Aluminium Honeycomb Under Quasi-Static Loading
A.Z.Pokaad, M.R.Said |

TECHNICAL SESSION**SESSION A10**

International Conference on Applications and Design in
Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Mas 3 (14:00-16:00)

Session A10: Design & Manufacturing IV

Chair: Dr. Yakubu Dan-Mallam

Co-Chair: Dr. Tan Wei Hong

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|------|-------|--|
| 1400 | A10-1 | Development of Scaffold Design Selection System
S.Maidin, S.E.Shaari |
| 1415 | A10-2 | Design and Analysis of Hand and Wrist Support Device
S.Maidin, M.Nazrin |
| 1430 | A10-3 | Scheduling Optimization Cell Formation Problem for Cellular Manufacturing System Using Meta-Heuristic Methods
M.Saravanan, S.Karthikeyan |
| 1445 | A10-4 | A Review on Valuable Trends of Product Data Management (PDM) Occupied in New Product Development (NPD)
S.Nallusamy S, K.Balakannan, R.Suganthini Rekha,
K.Balasubramanian |
| 1500 | A10-5 | Analysis and Optimization of 'y' Wheel Stair Climbing Mechanism
N.Kamble, S.Srinivasan |
| 1515 | A10-6 | Influence of Different Anvil Back Plates on Heat Dissipation Velocity of the Micro-Friction Stir Welding Process
C.Wanshun, F.Yusof |
| 1530 | A10-7 | Effect of Tool Parameters on Mechanical Properties of Friction Stir Welded Aluminum Alloy
P.Srinivasa Rao, G.Vimalan, M.Awang, A.M.A.Rani |
| 1545 | A10-8 | Design and Prototype of Novel Tool for Harvesting Oil Palm Fruit
R.Md Kawi, Z.B.Razali, M.N.Mansor, C.D.M.Asyraf |

TECHNICAL SESSION

SESSION A11



International Conference on Applications and Design in
Mechanical Engineering (ICADME 2015)

31st March 2015, Sri Delima (14:00-16:00)

Session A11: Thermofluid & Energy II

Chair: Dr. Muhammad Izham Bin Ismail

Co-Chair: Mr. Azizul Bin Mohamad

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|------|-------|---|
| 1400 | A11-1 | <p>Numerical Investigation on the Effect of Injection Pressure on Melt Front Pressure and Velocity Drop
M.S.Rusdi, M.Z.Abdullah, A.S.Mahmud, C.Y.Khor, M.S.Abdul Aziz, M.K.Abdullah, H.Yusoff, S.M.Firdaus</p> |
| 1415 | A11-2 | <p>Preliminary Investigation of an Up-Scaled Gamma-Type Stirling Engine for Power Production
M.F.Hamid, M.Y.Idroas, M.K.Abdullah, Z.A.Zainal, M.A.Miskam</p> |
| 1430 | A11-3 | <p>Recent Developments In Efficiency Enhancement Of Non-Concentrating Photovoltaic Systems By Thermal Methods
Z.Kaneesamankandi, A.Almujahid, S.A.Al-Sanea</p> |
| 1445 | A11-4 | <p>Scaled Down Design Of A Cold And Hot Flow Model Based On A Bubbling Fluidized Bed Pilot Plant Gasifier
I.Eslami Afrooz, C.M.Sinnathambi, S.Karuppanan, D.Ling Chuan Ching</p> |
| 1500 | A11-5 | <p>Power and Thermal Efficiency Study of Offshore Gas Turbines under Various Ambient Temperatures
M.T.Bouriaabadi, M.A.Abd Majid, M.Muhammad</p> |
| 1515 | A11-6 | <p>Thermal Analysis of Cup-Shaped Object and Experiment for Flash-Less Cold Forging Using FEM
H.M.T.Khaleed, G.A.Quadir, M.F.Addas, A.A.A.A.Al-Rashed, N.J.S.Ahmed, I.A.Badruddin, T.M.Y.Khan, S.Kamangar</p> |
| 1530 | A11-7 | <p>Numerical Simulation for the Aerodynamics of Vertical Axis Wind Turbine with Two Different Rotors Having Movable Vanes
H.S.Kadhim, G.A.Quadir, A.K.Farhan, U.Ryspek, A. I.Khairul</p> |

TECHNICAL SESSIONS



**International Conference on Biomedical Engineering
(ICoBE 2015)**

TECHNICAL SESSION

SESSION B1



International Conference on Biomedical Engineering
(ICoBE 2015)

30th March 2015, Sri Perak 1 (14:00-16:00)

Session B1: Biomedical Signal and Image Processing I

Chair: Dr. M. Murugappan

Co-Chair: Mrs. Norazian Abdul Razak

1400	B1-1	Appraisal of EEG Beta summative power towards Learning Style classification Nazre Abdul Rashid, Mohd. Nasir Taib, Zunairah Murat, Ros Shilawani S. Abd. Kadir, Sahrim Lias, Norizam Sulaiman
1415	B1-2	Dose Reduction in Breast Imaging: A Phantom Study Surangkana Kantharak, Thanarat H. C Chalidabhongse, Janjeera Prueksadee
1430	B1-3	Somatosensory Source Localization for the Magnetoencephalography MEG Inverse Problem in Patients with Brain Tumor Nor Safira Elaina, Aamir Malik, Nasreen Badruddin, Jafri Malin Abdullah, Mohammad Faruque Reza
1445	B1-4	3-D Reconstruction of Spine from Partial Biplanar Radiographic Image Data Sampath Kumar, K. Prabhakar Nayak, Hareesha K.S.
1500	B1-5	Analysis of the effects of Distance between Head and Mobile Phone on SAR M.I.Hossain, M.R.I.Faruque, M.T.Islam
1515	B1-6	A Survey of Analysis and Classification of EEG Signals for Brain-Computer Interfaces Mohd Zaizu Ilyas, Puteh Saad, Muhammad Imran Ahmad
1530	B1-7	Intelligibility modification of Dysarthric Speech using HMM-based Adaptive Synthesis System M. Dhanalakshmi and P. Vijayalakshmi
1545	B1-8	Low Computational Complexity EEG Epilepsy Data Classification Algorithm For Patients With Intractable Seizures Ahmad M. Aldabbagh, Turkey N. Alotaiby, Saleh A. Alshebeili, Fathi. E. Abd-Elsamie

TECHNICAL SESSION

SESSION B2



International Conference on Biomedical Engineering
(ICoBE 2015)

30th March 2015, Sri Perak 3 (14:00-15:30)

Session B2: Biomedical Signal and Image Processing II

Chair: Prof. Dr. Prabhakar Nayak

Co-Chair: Dr. Haniza Yazid

1400	B2-1	Assessment of Brain Haemodynamic Responses Using Optical Topography Modality Ahmad Fadzil M Hani, Ying Xing Feng, Tong Boon Tang, Masashi Kiguchi
1415	B2-2	Automatic Exclusion of Skin Border Regions from Breast MRI Using Proposed Combined Approach Ali Qusay Al-Faris, Nor Ashidi Mat Isa, Umi Kalthum Ngah, Ibrahim Lutfi Shuaib
1430	B2-3	A Planar Loop Antenna for Health Monitoring Device Aimed at Body-Centric Wireless Communication Applications Basari
1445	B2-4	Toward Intelligent Ankle Foot Orthosis for Foot-drop, a Review of Technologies and Possibilities Mohsen Hamed, Parisa Salimi, Abbas Aliabadi, Milad Vismeh
1500	B2-5	An Overview: Investigation of Electroporation and Sonoporation Techniques A. A. Sadiq, M. A. M. Zaltum, H. B. Mamman, M. Nazib Adon, N. B. Othman, M. Noh Dalimin, and M. Mahadi Abdul Jamil
1515	B2-6	Investigation of Electroporation Effect on HT29 Cell Lines Adhesion Properties Hassan Buhari Mamman, Muhammad Mahadi Abdul Jamil
1530	B2-7	Development of Optimized Configuration on Capacitive Array for Fingerprint Detection using LabVIEW Nur Rafiqah R., Ahmad Alabqari M. R.
1545	B2-8	Electromyography EMG based Signal Analysis for Physiological Device Application in Lower Limb Rehabilitation Nurhazimah Nazmi, Mohd Azizi Abdul Rahman, Saiful Amri Mazlan, Hairi Zamzuri

TECHNICAL SESSION

SESSION B3



International Conference on Biomedical Engineering
(ICoBE 2015)

30th March 2015, Sri Perak 1 (16:15-18:00)

Session B3: Biomedical Signal and Image Processing III

Chair: Dr. Hariharan Muthusamy

Co-Chair: Dr. Vikneswaran Vijejan

- | | | |
|------|------|--|
| 1615 | B3-1 | <p>Compensation of Error at the Beginning of Stimulation Cycle via Stimulation Shifting in FES-assisted Exercise
S.Z.Yahaya, Z.Hussain, R.Boudville</p> |
| 1630 | B3-2 | <p>Enhancing Physionet Electrocardiogram Records for Fetal Heart Rate Detection Algorithm
Wan Yusri Wan Yusuf, Mohd Alauddin Mohd Ali, Edmond Zahedi</p> |
| 1645 | B3-3 | <p>Analysis of Volatile Metabolites Emitted by Various Species to Reveal Their Roles in Chemical Ecology and Healthcare
Azian Azamimi Abdullah, Md. Altaf-Ul-Amin, Takaaki Nishioka, Tetsuo Katsuragi, Ammar Zakaria, Ali Yeon Md Shakaff, Shigehiko Kanaya, Naoaki Ono</p> |
| 1700 | B3-4 | <p>Rehabilitation Exercise Game Model for Post-stroke using Microsoft Kinect Camera
Azrulhizam Shapi'i, Nurazlin Nor Bahari, Haslina Arshad, Nor Azan Mat Zin, Zainal Rasyid Mahayuddin</p> |
| 1715 | B3-5 | <p>Analysis of Touching Sensation by Varying Weights of Rectangular Object
Nabilah H.E, M.A. Halim, M. Hazwan Ali, NorFarahiyah, Kamil S. Talha, Khairunizam WAN, D.Hazry, Zuradzman M. Razlan, Shahrman AB, Mohd Asri Ariffin, Haslina M</p> |

TECHNICAL SESSION**SESSION B4**

International Conference on Biomedical Engineering
(ICoBE 2015)

30th March 2015, Sri Perak 3 (16:15-18:00)

Session B4: Biomedical Devices & Others I

Chair: Dr. Khaled Helmy

Co-Chair: Dr. Cheng Ee Meng

1615	B4-1	Acquiring Palm Vein Patterns for Visual Interpretation Zarina Mohd Noha, Abdul Rahman Ramli, Marsyita, M Iqbal Saripan
1630	B4-2	Investigation on feasibility of conventional magnetic drug targeting toward cancer therapy Lee Jia Ji, Pua Chang Hong, Lee Poh Foong
1645	B4-3	A promising electro-chemical sensing platform based on a graphene nano-materials for sensitive sulfite determination Nurulasma Zainudin, Mashitah Mohd Yusoff, Kwok Feng Chong
1700	B4-4	Transabdominal Fetal Pulse Oximeter Using LEDs and Photodiode: A Design Consideration Study Nur Anida Jumadi, Gan Kok Beng, Mohd Alauddin Mohd Ali and Edmond Zahedi
1715	B4-5	Effect of doping to the pore structure and pore diameter on silicon membrane surface N. Burham, A.A. Hamzah, B.Y. Majlis

TECHNICAL SESSION

SESSION B5



International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Perak 1 (08:30-10:30)

Session B5: Biomedical Signal and Image Processing IV

Chair: Dr. Nazahah Mustafa

Co-Chair: Mr. Muhd Nur Rahman Yahya

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|------|------|--|
| 0830 | B5-1 | Illumination Correction of Retinal Images Using Superimpose Low Pass and Gaussian Filtering
Wan Azani Mustafa, Haniza Yazid, Sazali Bin Yaacob |
| 0845 | B5-2 | Objective Assessment of Parkinson's Disease Symptoms Severity: A Review
Q.W.Oung, M.Hariharan, S.N. Basah, S. Yaacob, M.Sarillee, H.L.Lee |
| 0900 | B5-3 | Characterizing Selected Visual Anomaly through Wavelet Decomposition of Evoked Responses
Vikneswaran Vijejan, M.Hariharan, Sazali Yaacob |
| 0915 | B5-4 | Unsupervised Color Image Segmentation of Red Blood Cell for Thalassemia Disease
Nurul Zhafikha Noor Rashid, Mohd Yusoff Mashor, Rosline Hassan |
| 0930 | B5-5 | Prediction of Body Mass Index using Speech Signals: A Review
ChawkiBerkai, M. Hariharan, Sazali Yaacob |
| 0945 | B5-6 | The Applications of Microsoft Kinect for Human Motion Capture and Analysis: A Review
Nur Hidayah Ismail, Shafriza Nisha Basah |

TECHNICAL SESSION**SESSION B6**

International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Perak 3 (08:30-10:30)

Session B6: Biomedical Devices & Others II

Chair: Dr. Haniza Yazid

Co-Chair: Dr. Vikneswaran Vijean

0830	B6-1	Pressure Distribution from Two Different Types of Fabrics Head Garments with Silon-LTS® Face Mask for Hypertrophic Burn Scar Treatment A.F Aiman, M.N Salleh, K.A Ismail
0845	B6-2	An Overview on Jaundice Measurement and Application in Biomedical: The potential of Non-invasive method Zulkarnay Z., Jurimah A. J., Ibrahim B., Shazwani S., E. M. Cheng, Ruzairi A. R., Abdul Nasir. M.A.K.
0900	B6-3	Performance Evaluation of Voltage-Controlled Current Sources for Wideband Electrical Bio-impedance Measurements H.L. Lee, C.H. Lee, Q.W. Oung
0915	B6-4	Development of Atmospheric Plasma Gas Discharge in Liquid N.A.H. Ramli, SK Zaaba, A. Zakaria, S.M. Mamduh, Noor Albatyiah Nordin
0930	B6-5	An Overview on pH Measurement Technique and Application in Biomedical and Industrial Process Zulkarnay Z., Shazwani S., Ibrahim B., Jurimah A. J., Ruzairi A. R., Zaridah. S.

TECHNICAL SESSION

SESSION B7



International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Perak 1 (10:45-12:30)

Session B7: Biomedical Device & Others 3

Chair: Dr. Shuhaida Yahud

Co-Chair: Mrs. Normahira Mamat

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|------|------|--|
| 1045 | B7-1 | Development of Electronic Reader for Formaldehyde Detection Sensor
U. Hashim, M. Zaki, M. K. Md Arshad, R.M. Ayub, M.F.M. Fathil, A.H. Azman, R. Adzhri |
| 1100 | B7-2 | Development of Effectively Test Chamber for SnCl₂ Gas Detection Sensor
U. Hashim, M. Zaki, M. K. Md Arshad, R.M. Ayub, M.F.M. Fathi, A.H. Azman, R. Adzhri |
| 1115 | B7-3 | Preparation and Characterization of Titanium Dioxide Thin Film for Field-effect Transistor Biosensor Application
U. Hashim, M.F.M. Fathil, R. Adzhri, M.K. Md Arshad, A.R Ruslinda, R.M. Ayub, M. Nuzaihan M.N., A.H. Azman, M. Zaki |
| 1130 | B7-4 | Optical Properties of MWCNTs Dispersed in Various Solutions
U. Hashim, M.A Farehanim, N.Azizah, S. Norhafiezah, M.F. Fatin, A. Rahim Ruslinda, RM Ayub |
| 1145 | B7-5 | Comparison of Drop Casting vs. Spray Pyrolysis MWCNTs Technique for Surface Modification based Interdigitated Electrode
U. Hashim, M. A Farehanim, N.Azizah, S. Norhafiezah, M.F. Fatin, A. Rahim Ruslinda, RM Ayub |
| 1200 | B7-6 | Analysis of Parasitic Components with Various Sizes of Coils in High Frequency Micro-Fabricated Transformer
U. Hashim, M. Zhafran Z., M. Isa, A. Rahim A.R. |
| 1215 | B7-7 | Comparison of Deal Grove Model growth rate with Dry thermal oxidation process for ultra-thin Silicon Dioxide film
U. Hashim, A.H. Azman, RM Ayub, M. K. Md Arshad, S. Norhafiezah, M.F.M. Fathil, M.Z. Kamarudin, R. Adzhri, M. Nuzaihan M.N |

TECHNICAL SESSION

SESSION B8



International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Perak 3 (10:45-12:30)

Session B8: Biomedical Device & Others 4

Chair: Dr. Cheng Ee Meng

Co-Chair: Mr. Wan Mohd Radzi Rusli

1045	B8-1	Colorimetric Method for Visualizing Biotin-Labeled DNA Probes Hybridized to DNA Human Papillomavirus HPV Immobilized on Silicon dioxideSiO₂ Thin Film U.Hashim, N.Azizah, Sh. Nadzirah, M. A. Farehanim, M.F. Fatin, S. Norhafiezah, A.K.M. Muaz, A. Rahim Ruslinda, RM Ayub
1100	B8-2	Silanization using APTES in Different Solvents on Titanium Dioxide Nanoparticles U.Hashim, Sh.Nadzirah, N. Azizah, M.Safwan Azmi, Kausalyaa Bala
1115	B8-3	Formation of Copper Oxide Nanowires on Glass Substrate through Thermal Annealing Process U.Hashim, M.Safwan Azmi, Sh.Nadzirah
1130	B8-4	Spray Pyrolysis of Graphene Oxide for Field-effect Transistor Biosensor Application U. Hashim, R. Adzhri, M.K. Md Arshad, M.F.M. Fathil, A.R Ruslinda, R.M. Ayub, M. Nuzaihan M.N., A.H. Azman, M. Zaki, A.B. Suriani
1145	B8-5	Morphology characterization on different volume and height of MWCNT layer deposition by spray method U. Hashim, M. F. Fatin, A. Rahim Ruslinda, M. K. Md Arshad, S. Norhafiezah, M. A. Farehanim, N. Azizah, RM Ayub
1200	B8-6	The Effect of Spray Volume and Height to the Electrical Conductance of Carbon Nanotube Layer U. Hashim, M. F. Fatin, A. Rahim Ruslinda, M. K. Md Arshad, S. Norhafiezah, M. A. Farehanim, N. Azizah, RM Ayub
1215	B8-7	Low Cost Mask Layout Design for Fabrication of Spiral Interdigitated Electrodes in Electrochemical Biosensor Application U. Hashim, P.Y.P Adelyn, C.H. Voon, M.K. Md Arshad, Wei-Wen Liu, S. M. Kahar, A. R. N. Huda, H.Cheun Lee

TECHNICAL SESSION

SESSION B9



International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Delima (10:45-12:30)

Session B9: Biomedical Signal and Image Processing 5

Chair: Dr. M. Murugappan

Co-Chair: Dr. Wan Sharifah Robiah

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|------|------|---|
| 1400 | B9-1 | <p>Comparison of Color Thresholding and Global Thresholding for Ziehl-Neelsen TB Bacilli Slide Images in Sputum Samples
M. F. Nurul Wahidah, N. Mustafa, M. Y. Mashor, S. S. M. Noor</p> |
| 1415 | B9-2 | <p>ECG Signals Classification Based on Discrete Wavelet Transform, Time Domain and Frequency Domain Features
Shazwani Ahmad Shufni, Mohd. Yusoff Mashor</p> |
| 1430 | B9-3 | <p>Segmentation of Malaria Parasites Based on Modified B-Y Colour Component
A.S. Abdul Nasir, M.Y. Mashor, Z. Mohamed</p> |
| 1445 | B9-4 | <p>The Non-Imaging Acoustical Properties on Monitoring Vascular Access For Hemodialysis. A Review
Anas Mohd Noor, Ahmad Nasrul Norali</p> |
| 1500 | B9-5 | <p>Color and Morphological Based Techniques on White Blood Cell Segmentation
Huey Nee Lim, Mohd Yusoff Mashor, Nadiatun Zawiyah Supardi, Rosline Hassan</p> |

TECHNICAL SESSION

SESSION B10



International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Perak 1 (14:00-16:00)

Session B10: Biomedical Devices & Others 5

Chair: Dr. Zulkarnay Zakaria

Co-Chair: Mrs. Normahira Mamat

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|------|-------|---|
| 1400 | B10-1 | <p>Feasibility Study on MCF-7 Cell Membrane Swelling Properties Induced by Microsecond Pulsed Electric Field
Mohamed A. Milad Zaltum, Mohamad Nazib Adon, Sallehuddin Hamdan, Muhammad Mahadi Abdul Jamil</p> |
| 1415 | B10-2 | <p>Preliminary Investigations of Optical Emission Spectroscopy Atmospheric Plasma for Microbial Inactivation
Nor Aimi Saad, S. K. Zaaba, Roslan Md Nor, Khairunizam Wan, Balqissiah Baharudin, Shariman A.B, A.Zakaria, Z. Zakaria</p> |
| 1430 | B10-3 | <p>Study on the Surface Characteristic of PTFE after Atmospheric Plasma Treatment
Noor Albatyiah Nordin, SK Zaaba, Balqissiah Baharuddin, A. Zakaria, Khairunizam Wan, AB Shahrman</p> |
| 1445 | B10-4 | <p>Study on Moisture Content in Animal Fats Using Six-Port Reflectometer SPR
S. Aishah, E.M. Cheng, K.Y.Lee, W.C. Tan, M. Afendi, Shahrman A.B, N.F. Mohd Nasir, W.H.Tan, K.N. Syahirah, S.F.Khor, K.Y.You, M. Fareq</p> |
| 1500 | B10-5 | <p>Effect of Ferroelectric on Microelectronics Application
H. Mohd Yusof, S. H. Najamudin, Ala'eddin A. Saif, P. Poopalan</p> |
| 1515 | B10-6 | <p>Study on 10 GHz electromagnetic wave absorption of cullet doped with iron II, III oxide
M.F. Che Mansor, E.M. Cheng, M. F. Abd. Malek, H.G. Beh, A. Chik, S. F. Khor, M. A. Rojan, N. F. Mohd Nasir, S. A. Ong, S. Abu Bakar</p> |
| 1530 | B10-7 | <p>A Review on the Requirements of Modeling of Blood Flow
Pei Shin Lau, Kahar Osman, Su Hoe Yeak</p> |
| 1545 | B10-8 | <p>Electrical bio-impedance as a promising prognostic alternative in detecting breast cancer: A Review
B.Gowry, A.B. Shahrman and M.Paulraj</p> |

TECHNICAL SESSION

SESSION B11



International Conference on Biomedical Engineering
(ICoBE 2015)

31st March 2015, Sri Perak 3 (14:00-16:00)

Session B11: Biomaterials and Biomechanics & Rehabilitation

Chair: Dr. Ahmad Faizal Salleh

Co-Chair: Mrs. Norazian Abdul Razak

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|------|-------|---|
| 1400 | B11-1 | <p>An Overview of FES-Cycling Experiment Development with EMG and Electrical Stimulation Test for Paraplegia
M.K.I.Ahmad, B.S.K.K.Ibrahim, M.Mahadi Abdul Jamil, D.Hanafi, N.H.M.Nasir, K.A.A.Rahman, A.Masdar, F. Sherwani, M.K.Hat, A.U.Shamsudin, N.F.Ramin</p> |
| 1415 | B11-2 | <p>Review of Biomechanical Modeling of Cortical Bone Stress Fracture
N. N. Mansor, R. Daud, K. S. Basaruddin, M. I.Omar@YeYutt, S. A. A.Halim, N.A.M. Zain, Y. Bajuri</p> |
| 1430 | B11-3 | <p>Influence of body weight distribution in shooting performance of 10 m air rifle shooters
Y.Selva, A.F Salleh, S.Joseph</p> |
| 1445 | B11-4 | <p>Accuracy and Reliability of Optimum Distance for High Performance Kinect Sensor
Lim Chee Chin, Shafriza Nisha Basah, Sazali Yaacob, Mohamad Yazid Din, Yeap Ewe Juan</p> |
| 1500 | B11-5 | <p>The Effects of Contact Area and Surface Curvature on Behavior of Articular Cartilage
Nur Hikmah Hashim, Mohd Juzaila Abd Latif, Yusra Liyana Jaafar</p> |
| 1515 | B11-6 | <p>Development and characterization of PVA based hydrogel for cartilage tissue scaffold
M. Normahira, C.Reenu, M. N. Nashrul Fazli, A.Z. Ahmad Firdaus</p> |
| 1530 | B11-7 | <p>Finite Element Analysis for Stent in Patent Ductus Arteriosus (PDA)
Ishkrizat Taib, Khoo Shea Hao, Nadia Shaira Shafii, Ahmad Zahran Md.Khudzari, Kahar Osman</p> |

TECHNICAL SESSIONS

ICoMMS 2015

**International Conference on Man Machine Systems
(ICoMMS 2015)**

TECHNICAL SESSION

SESSION C1

ICoMMS 2015

**International Conference on Man Machine Systems
(ICoMMS 2015)**

30th March 2015, Sri Delima (14:00-15:45)

Session C1: Circuits System and Automation I

Chair: Dr. Muhammad Juhairi Aziz Safar

Co-Chair: Mrs. Siti Nurul Aqmariah Mohd. Kanafiah

1400	C1-1	Z-Source Neutral Point Clamped Inverter Fed Motor Drive B.Karunamoorthy, D. Somasundareswari
1415	C1-2	Simulative Studies on Ultrasound Interactions for Steel Pipe Transmission N.M. Nor Ayob, J. Pusppanathan, F.R. Mohd Yunus, C.L. Goh, S. Buyamin, Y. Md Yunus, R.A. Rahim, M.H.F. Rahiman, Z. Zakaria
1430	C1-3	Finite Element Analysis on Electrical Capacitance Sensor Guard J. Pusppanathan, R.A.Rahim, F.A.Phang, F.R. Mohd Yunus, N.M. Nor Ayob, M.S.B. Mansor, K. H. Abas, S. Sahlan, E.J. Mohamad
1445	C1-4	Simulation of Single Channel Biological Tissue Spectroscopy Using Comsol Multiphysics AA. Basaif, N.F.M. Nasir, Z. Zakaria, I. Balkhis, S. Sarkawi, J.A. Jalil
1500	C1-5	Electrical Capacitance Tomography: A Review on Portable ECT System and Hardware Design Wan Norhisyam Abd Rashid, Elmy Johana Mohamad
1515	C1-6	Design of Flexible Electrical Capacitance Tomography Sensor M.T. Masturah, MHF Rahiman, Z. Zakaria, R.A. Rahim, N.M. Nor Ayob
1530	C1-7	3D Terrestrial Laser Scanner for Managing Existing Building S.A. Abdul Shukor, Shafriza Nisha Basah, Razak Wong, Emma Rushforth

TECHNICAL SESSION

SESSION C2

ICoMMS 2015

International Conference on Man Machine Systems
(ICoMMS 2015)

30th March 2015, Sri Gangsa (14:00-16:00)

Session C2: Circuits System and Automation II

Chair: Dr. Shafriza Nisha Basah

Co-Chair: Mr. Hassrizal Hassan Basri

1400	C2-1	Flexible Dynamics Model Of Attitude Maneuvering of Razaksat® Satellite Teoh Vil Cherd, Shahriman Abu Bakar, Sazali Yaacob
1415	C2-2	The Dynamic Effects of Piezoelectric Accelerometer on the Stability of an Active Vibration Control System Muhajir Ab. Rahim, F.S.A. Sa'ad, A. Zakaria
1430	C2-3	Vibration Isolation System with Active Stiffness Control Muhajir Ab. Rahim, Mohd Shukry Bin Abdul Majid, M.A.A. Halim
1445	C2-4	Full- and Reduced-Order Compensators for InnoSAT Attitude Control Fadzilah Hashim, Mohd Yusoff Mashor, Siti Maryam Sharun
1500	C2-5	On-Line Modelling and Forecasting of a Moving Car Information using TD-HMLP Network Z. Saad, M.Y. Mashor
1515	C2-6	Optimization on Wireless Power Transfer M.A.A. Halim, M.S. Razak, M.N.M. Yasin, W. Khairunizam, M. Fareq, M. Fitra, Muhajir Ab. Rahim
1530	C2-7	Identification of On-And Off-Line Linear State Space Models Using Subspace Methods Nurul Syahirah Khalid, Norhaliza Abdul Wahab, M.I. Zakaria
1545	C2-8	Microcontroller-Based For System Identification Tools Using Least Square Method with for RC Circuits Ang Jia Yi, Mohd Shukry Bin Abdul Majid, Azuwir Mohd Nor, Sazali Bin Yaacob

TECHNICAL SESSION

SESSION C3

ICoMMS 2015

International Conference on Man Machine Systems
(ICoMMS 2015)

30th March 2015, Sri Delima (16:15-17:45)

Session C3: Circuits System and Automation III

Chair: Dr. Lam Chee Kiang

Co-Chair: Mrs. Nurul Syahirah Khalid

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|------|------|---|
| 1615 | C3-1 | Edible Bird Nest Shape Inspection Using Fourier Descriptor (FD) and Farthest Fourier Point Signature (FFPS) Method
F.S.A.Sa'ad, M.F.Ibrahim, A.Y.M. Shakaff, A. Zakaria |
| 1630 | C3-2 | Stereo-based Pedestrian Detection: A Review
S. A. Abdul Shukor, Ken Young, Yingping Huang |
| 1645 | C3-3 | Feasibility Analysis of an Automated Detection of Physical Defect via Computer Vision
Por Jing Zhao, Shafriza Nisha Basah, S.A. Abdul Shukor, Shahrman Abu Bakar |
| 1700 | C3-4 | Removal of Mixed Gaussian-Impulsive Noise from Color Images with Fuzzy Filters
P.S.Venkatesan, S.K.Srivatsa, V.Duraisamy, V. Umapathy, V. Balaji |
| 1715 | C3-5 | Performance of Wavelet based medical image fusion on FPGA using high level language C
K. Umapathy, V. Balaji, S.S Saravanakumar, V. Duraisamy, V. Uma |
| 1730 | C3-6 | An Intelligent Recognition System for Human Height Measurement
S. N. Aqmariah Kanafiah, A.Z Ahmad Firdaus, Siti Aishah Bt Md Khamis, N.K Syahirah |

TECHNICAL SESSION**SESSION C4****ICoMMS 2015****International Conference on Man Machine Systems
(ICoMMS 2015)****30th March 2015, Sri Gangsa (16:15-17:00)****Session C4: Artificial Intelligence I****Chair:** Prof. Paul Raj**Co-Chair:** Mrs. Masturah Tunnur Mohamad Talib

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|------|------|---|
| 1615 | C4-1 | Mel Frequency-Band-Structure-Based-Features for Motor-Imagery Task Classification
Paulraj M P, Jackie The |
| 1630 | C4-2 | A Visual Perception Approach for Thought Translational Device
Paulraj M P, Eric Tiong Kung Woo, Sazali Yaacob |
| 1645 | C4-3 | Monitoring Rubber Factory Malodour using Artificial Neural Network
A.H. Abdullah, A.N.A, Rushdi, S.A.Shukor, H. Mustafa |

TECHNICAL SESSION

SESSION C5

ICoMMS 2015

International Conference on Man Machine Systems
(ICoMMS 2015)

31st March 2015, Sri Delima (08:30-09:45)

Session C5: Artificial Intelligence II

Chair: Dr. Marwan Affandi

Co-Chair: Mr. Mohd Nor Fakhzan Mohd Kazim

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|------|------|--|
| 0830 | C5-1 | <p>An Accelerated Particle Swarm Optimized Intelligent Weight Update in Back Propagation Algorithm</p> <p>Nazri Mohd. Nawi, Abdullah Khan, M. Z. Rehman, Insaf Ali Siming</p> |
| 0845 | C5-2 | <p>Self-Evaluation of RTS Troop's Performance</p> <p>Chin Kim On, Chang Kee Tong, Rayner Alfred, Wang Cheng, Tan Tse Guan</p> |
| 0900 | C5-3 | <p>An Intelligent Network Intrusion Detection Using Data Mining Techniques</p> <p>Mohd Afizi Bin Mohd Shukran, Kamaruzaman Bin Maskat</p> |
| 0915 | C5-4 | <p>Performance Analysis of Energy Management Controller for Stand Alone Solar Power Generation System Using Soft Computing Techniques</p> <p>V. Balaji, K. Sekar, V. Duraisamy, T.S. Raghavendran, S. Uma</p> |
| 0930 | C5-5 | <p>Classification of Hearing Perception Level Using Auditory Evoked Potentials</p> <p>Paulraj M P, Kamalraj Subramaniam, Hema C R</p> |

TECHNICAL SESSION

SESSION C6

ICoMMS 2015

International Conference on Man Machine Systems
(ICoMMS 2015)

31st March 2015, Sri Gangsa (08:30-10:00)

Session C6: Robotics

Chair: Dr. Shazmin Aniza Abdul Shukor

Co-Chair: Mrs. Humairah Mansor

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|------|------|--|
| 0830 | C6-1 | Feasibility Analysis of 2D-SLAM Using Combination of Kinect and Laser Scanner
A.S.A. Yeon, K. Kamarudin, R. Visvanathan, S.M. Mamduh, L.M. Kamarudin, A. Zakaria, A.Y.M. Shakaff |
| 0845 | C6-2 | Evaluation of Scene Parameters for Optimum Performance of Localization Using Kinect
B. Ilias, S.A. Abdul Shukor, S. Yaacob, A.H. Adom, M.F. Haja Hussain |
| 0900 | C6-3 | Conceptual Design for Robot-aided Ankle Rehabilitation Devices
Muhammad Nazrin Shah Shahrol Aman, Shafriza Nisha Basah, Wan Khairunzam Wan Ahmad, Shahrman Abu Bakar |
| 0915 | C6-4 | Vision Based Elliptical Geometric Floor-Pattern Tracking Method in Robotic Routing
Wai Kit Wong, Wei Qing Ong, Wei Yi Ong, Kenny Ang, Thu Soe Mi, Eng Kiong Wong, Yee Kit Chan |
| 0930 | C6-5 | Development of Leader and Follower Strategy for Swarm Robot Applications
Humairah Mansor, Abdul Hamid Adom, Norasmadi Abdul Rahim |
| 0945 | C6-6 | Robot Fire FiRoV2 Control Using Bluetooth in Mobile Phone
Ariyono Setiawan, Mochammad Rifai, Ridho Rinaldy, Yuyun Suprpto |

TECHNICAL SESSION

SESSION C7

ICoMMS 2015

**International Conference on Man Machine Systems
(ICoMMS 2015)**

31st March 2015, Sri Gangsa (10:45-12:30)

Session C7: Circuits System and Automation IV

Chair: Assoc. Prof. Dr. Abu Hassan Abdullah

Co-Chair: Mr. Fathinul Syahir Ahmad Saad

1045	C7-1	State-Dependent Boundary Layer Method for Attitude Control of Satellite Nurul Syazwani Hussain, Hassrizal Hassan Basri, Sazali Yaacob, Nor Hazadura Hamzah, Mohamad Nazree Dol Bahar
1100	C7-2	The Study of Vegetation Effect on Wireless Streaming Video for Smart Agricultural Monitoring Mohd F. Ramli, Latifah M. Kamarudin, David L. Ndzi, Azizi Harun, Jamie S. C. Turner, Najmudin Hassan, Ali Y. M. Shakaff, Mahmud N. Jaafar, Ammar Zakaria
1115	C7-3	Enhancing Varying Overhead Ad Hoc On Demand Distance Vector With Artificial Ants V. Balaji, K. Umapathy, V. Duraisamy, N. Umapathy, S.S. Saravanakumar
1130	C7-4	MATLAB as a tool for the teaching of Rankine Cycle Marwan Affandi, Ilmi Abdullah, Nurul Syahirah Binti Khalid
1145	C7-5	Analysis on Attitude Position of Earth Centered Inertial (ECI) and Velocity Based on RazakSAT Data Mohd Zamri Hasan, Sazali Yaacob, Amran Ahmed, Shamshul Bahar Yaakob, Muhd Hafizi Idris, Md Azlin Md Said
1200	C7-6	Nonlinear Observers via Extended Kalman Filter Algorithm for Euler Angles Attitude Estimation without Attitude Sensor Measurements Nor Hazadura Hamzah, Sazali Yaacob, Hariharan Muthusamy, Norhizam Hamzah
1215	C7-7	PID Parameters Optimization Using PSO Technique for Nonlinear Electro Hydraulic Actuator Siti Marhainis Othman, Mohd Fua'ad Rahmat, Sahazati Md Rozali