

TECHNICAL SESSION

SESSION B1



International Conference on Biomedical Engineering
(ICoBE 2017)

21st August 2017, Sri Perak 1 (14:00-16:00)

Session B1: Biomedical Signal and Image Processing I

1400	B1-1	<p>Selection of Spectrogram's Best Window Size in EMG Signal during Core Lifting Task</p> <p>Ezreen Farina Shair, Siti Anom Ahmad, Abdul Rahim Abdullah, Mohammad Hamiruce Marhaban and Shamsul Bahri Mohd Tamrin</p>
1415	B1-2	<p>Histogram Equalization Technique for Enhancement Microscopic Blood Smear Images</p> <p>Oussama Laghouiter, Muhammad Mahadi Abdul Jamil, Wan Mahani Hafzah Binti Mahmud and Mohamad Nazib Bin Adon</p>
1430	B1-3	<p>Handwriting Dynamic Features And Brain Electrical Activity Related To Graphic Rule Based On Principal</p> <p>Norlaili Mat Safri, Hanis Zafirah Kosnan, Puspa Inayat Khalid and Nor Aini Zakaria</p>
1445	B1-4	<p>Segmentation Based on Morphological Approach for Enhanced Malaria Parasites Detection</p> <p>Wan Azani Wan Mustafa, Aimi Salihah Abdul-Nasir, Zeehaida Mohamed, Haniza Yazid</p>
1500	B1-5	<p>Simulation Study of Microwave Imaging for Brain Disease Diagnostic</p> <p>Mohd Hafiz Fazalul Rahiman and Stephanie Sia Sok San</p>
1515	B1-6	<p>Hyperchromatic Nucleus Segmentation on Breast Histopathological Images for Mitosis Detection</p> <p>Tan Xiao Jian, Nazahah Mustafa, Mohd Yusoff Mashor and Khairul Shakir Ab Rahman</p>
1530	B1-7	<p>An Intelligent Recognition System for Plasmodium Knowlesi Malaria in Trophozoite Stages</p> <p>Siti Nurul Aqmariah Mohd Kanafiah, Teh Jing Xu, Mohd Yusoff Mashor, Zeehaida Mohamed, Shazmin Aniza Abdul Shukor, Nik Zairi Zakaria, Lim Huey Nee and Hasimah Ali</p>

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SESSION B2



International Conference on Biomedical Engineering
(ICoBE 2017)

21th August 2017, Sri Perak 2 (14:00-16:00)

Session B2: Biomedical Devices & Others I

1400	B2-1	Optimization of Pulse Duration Parameter for HeLa Cells Growth Rate Muhammad Mahadi Abdul Jamil, Mohamed Ahmed Milad Zaltum and Nur Adilah Abd Rahman
1415	B2-2	Investigation on Anti-Proliferation Properties of Bezoar (Hystrix Brachyuran) Extracts Azra Hazwanie Azizulkarim, Muhammad Mahadi Abdul Jamil, Mohamad Nazib Adon, Ridhwan Abdul Wahab and Tengku Nadzlin Tengku Ibrahim
1430	B2-3	Development of BRCA1 DNA Sequence Profile of Early Diagnosis Oo Breast Cancer D. S. Nurdin, M. N. Isa, R. C. Ismail and M. I. Ahmad
1445	B2-4	Fourth-Order Butterworth Active Bandpass Filter Design for Single-Sided Magnetic Particle Imaging Abdulkadir Abubakar Sadiq, Muhammad Mahadi Abdul Jamil and Nurmiza Othman
1500	B2-5	Numerical Analysis of Antenna Performance for Wireless Implantable Body Area Network N.H.Ramli, M. R. Kamarudin and H.Jaafar
1515	B2-6	A Wireless Continuous Patient Monitoring System for Dengue_ Wi-Mon Nubenthan Suthatharan, Shalomy Chandrarajan, Niroshan Thavarajah and Ravichelvan Kanagasabapathy

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SESSION B3



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21st August 2017, Sri Perak 1 (16:15-18:00)

Session B3: **Biomedical Signal and Image Processing II**

1615	B3-1	Microaneurysms Segmentation in Retinal Images for Early Detection of Diabetic Retinopathy Noratikah Mazlan, Haniza Yazid, Saufiah Abdul Rahim and Shafriza Nisha Basah
1630	B3-2	Analysis of Colour Constancy Algorithms for Improving Segmentation of Malaria Images Khairunnisa Mohd Sultur, Aimi Salihah Abdul Nasir, Wan Azani Mustafa, Haryati Jaafar and Zeehaida Mohamed
1645	B3-3	Analysis of Distance Transforms for Watershed Segmentation on Chronic Leukaemia Images Thaqifah Ahmad Aris, Aimi Salihah Abdul Nasir and Wan Azani Mustafa
1700	B3-4	Body Mass Index (BMI) Of Normal and Overweight/Obese Individuals Based on Speech Signals Chee Chin Lim, Yen Fook Chong, Vikneswaran Vijejan, Muhamad Afiq Haziq Abdul Rahim and Hariharan Muthusamy
1715	B4-5	In Vitro Cancer Cell Line Classification using Pattern Recognition Approach based on Metabolite Profiling Amanina Iymia Jeffree, Mohammad Iqbal Omar, Ammar Zakaria, Reena Thriumani and Yumi Zuharis Has-Yun Hashim

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SESSION B4



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21st August 2017, Sri Perak 2 (16:15-18:00)

Session B4: Biomedical Devices & Others II

1615	B4-1	A Study Effect of Specific Absorption Rate in Human Head Model due to Electromagnetic Exposure Siti Rokiah Abdul Mutalik, Mohd Hafizuddin Mat, Mohd Rosydi Zakaria and Mohd Irwan Yusoff
1630	B4-2	New Features of Cervical Precancerous Cell Based On FESEM/EDX Line Scanning for Classification Yessi Jusman, Siti Nurul Aqmariah Mohd Kanafiah, Widdya Rahmalina, Khairunnisa Hasikin and Sri Kartini
1645	B4-3	Flexible Cotton Fabric Circuitry Based by Using Graphene Oxide for ECG Applications Syafiqah Md Jusob, Nurul Ashikin Abdul Kadir, Fauzan Khairi Che Harun and Dedy Hermawan Bagus
1700	B4-4	Wireless ECG Circuit on Flexible Material: A Preliminary Study Noor Syazwana Sahar, Nurul Ashikin Abdul-Kadir, Chan Weng Howe, Su Eileen Lee Ming and Fauzan Khairi Che Harun
1715	B4-5	Evaluation of Light Distribution And The Penetration Depth Under Isometric Studies Using fNIRS Amal Asyikin Abdul Halim, Muhammad Rusop Mahmood and Muhammad Hafiz Laili

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SESSION B5



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Session B5: Biomaterials

0830	B5-1	The Mechanical Characterization of Ubi Badak And Ubi Kemili Starch-Ha Composite Nur Aerina Fitri Mohd Hori, Nashrul Fazli Mohd Nasir, Nasrul Amri Mohd Amin, Ee Meng Cheng, Mohd Shukry Abdul Majid and Salmie Abdul Rahman
0845	B5-2	Electromagnetic Interference (EMI) Shielding Effectiveness (SE) of Unsaturated Polyester Resin with Carbon Black Fillers Revati R., M.S. Abdul Majid, S. Yahud, E.M. Cheng and Ridzuan M.J.M.
0900	B5-3	Effect of Temperature on Syntesis of Hydroxyapatite from Cockle Shells (Anadara Granosa) Yazida Rizkayanti and Yusril Yusuf
0915	B5-4	Effect of Ca:P Concentration and Calcination Temperature On Hydroxyapatite (HAp) Powders From Quail Eggshell (Coturnix coturnix) Firda Y. Syafaat and Yusril Yusuf
0930	B5-5	Effect of Surfactant Concentrations on Pore Characteristics Of Mesoporous Carbonated Hydroxyapatite Nur Farahiyah Mohammad, Radzali Othman and Yeoh Fei Yee

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SESSION B6



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22nd August 2017, Sri Perak 2 (08:30-10:30)

Session B6: Biomedical Devices & Others III

0830	B6-1	Model of Hyperthermia Therapy in Melanoma Treatment: Comparison between Constant and Temperature Dependent Blood Perfusion Rate Mohd Norfazly and Shuhaida Yahud
0845	B6-2	Fabrication and Characterization of Titanium Dioxide through Different Deposition Method Based Detection of Formaldehyde Gas Mohd Zaki Mohamed Kamarudin, Uda Hashim and Muhamad Nasir Mat Arip
0900	B6-3	Characterization of Difference Carbon Nanotube (CNTs) as a Sensing Mechanism for Develop of Formaldehyde Gas Detection Sensor Mohd Zaki Mohamed Kamarudin and Muhamad Nasir Mat Arip
0915	B6-4	Semiconductor Nanowires Biosensors for Highly Selective and Multiplexed Detection of Biomolecules Tijjani Adam, Aeshah Muhana Mohammed and Nur Fatimi Nor Azua
0930	B6-5	Design of a Chip Printed Antenna at 4.8GHz for Wireless Implantable Body Area Network Applications N.H.Ramli, M. R. Kamarudin and H.Jaafar
0945	B6-6	Surface Acoustic Wave (SAW) Sensor based on Zinc Oxide Nanowires as a Sensing Film Mohd Rosydi Zakaria, Abd Rahman Siti Fatimah and Mat Mohd Hafizuddin
1000	B6-7	Identification of Human Pathogen in Nutrient Culture Media using an Electronic Nose Syahida Amani Zulkifli, Che Wan Sharifah Robiah Mohamad and Abu Hassan Abdullah

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SESSION B7



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22nd August 2017, Sri Perak 1 (10:45-12:30)

Session B7: Biomechanics & Rehabilitation I

1045	B7-1	Design of Mechanical Bracing Device for Clubfoot Treatment Shahrol Mohamaddan, Ahmad Hata Rasit and Siti Zawiah Md Dawal
1100	B7-2	Automatic Control of Wrist Rehabilitation Therapy (WRist-T) device for Post-Ischemic Stroke Patient Mohd Azrul Hisham Mohd Adib, Idris Mat Sahat, Nur Hazreen Mohd Hasni, Zulkifli Ahmad and Narimah Daud
1115	B7-3	Development of an Ankle Foot Orthosis for Hemiplegic Children Shahrol Mohamaddan, Nurhanna Zulaikha Ishak, Musdi Shanat and Siti Zawiah Md Dawal
1130	B7-4	Elastic Interactions of Osteon-Crack Penetration in Longitudinal Fracture Nurul Najwa Mansor and Ruslizam Daud
1145	B7-5	The Effect of Structural Leg Length Discrepancy on Vertical Ground Reaction Force and Spatial-Temporal Gait Parameter: A Pilot Study N.A. Azizan, K.S. Basaruddin, A.F. Salleh, H. Sakeran, A.R. Sulaiman and E.M. Cheng
1200	B7-6	A Finite Element Analysis of Stress Distribution on Tibia Modelled Using Cortical and Cancellous Mohd Hanafi Mat Som, Khairul Salleh Basaruddin, Nazahah Mustafa, Haniza Yazid and Ahmad Faizal Salleh

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SESSION B8



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22nd August 2017, Sri Perak 2 (10:45-12:30)

Session B8: Biomedical Device & Others IV

1045	B8-1	High-performance Electrical Variable Resistor Sensor for E.coli O157:H7 Detection Asanka Rajapaksha, Uda Hashim, Afnan Uda and Nanadana Fernando
1100	B8-2	Atmospheric Pressure Cold Plasma (Acp) Treatment A New Technique to Improve Microstructural And Textural Properties Of Healthy Noodles Fortified With Mango Flour Noor Shazliana Aizee Abidin and Fathinul Syahir Ahmad Saad
1115	B8-3	Electrical Characterizations of Polypyrrole Thin Film Deposited on Glass Surfaces by Using the LCR Syamimi Nor and Shuhaida Yahud
1130	B8-4	Electromagnetic Interference (EMI) Analysis on Surface Roughness of 3C-Silicon Carbide (3C-SiC) Ee Meng Cheng, Nashrul Fazli Mohd Nasir, Shahrman Abu Bakar, Siti Aishah Baharuddin, Patrick W.
1145	B8-5	Microwave Dielectric and Reflection Characterization on Silver Grunter (Pomadasy hasta) and Tilapia (Oreochromis niloticus) Fish Scale Shing Phan Khor, Ee Meng Cheng, Shahrman Abu Bakar, Nashrul Fazli Mohd Nasir, Hasliza A Rahim Shamsuddin, Mohd Shukry Abdul Majid, Zulkarnay Zakaria and Khairul Salleh Basaruddin
1200	B8-6	Portable Therapeutic Guided Wrist Flexion Exerciser Device for Recovery Monitoring Nur Anida Jumadi, Mack Donald Sangkah Kinatu and Mohammad Fairuz Mohd Nasir

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SESSION B9



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22nd August 2017, Sri Perak 1 (14:00-16:00)

Session B9: Biomechanics & Rehabilitation II

1400	B9-1	Effect of Surface Hardness on Joint Contact Forces during Barefoot Running: A Pilot Study N.A.A. Abdul Yamin, K.S. Basaruddin, A.F. Salleh, W.M.R. Rusli and E.M. Cheng
1415	B9-2	Effect of Leg Length Discrepancy On Joint Contact Force During Gait Using Motion Tracking System: A Pilot Test N.F. Othman, K.S. Basaruddin, M.H. Mat Som, A.F. Salleh, H. Sakeran, R. Daud and A.R. Sulaiman
1430	B9-3	Finite Element Study on Strain Energy Release Rate and Von Misses Stress in Muscle Laceration Mohammad Shahril Salim, Ahmad Faizal Salleh and Ruslizam Daud
1445	B9-4	Wearable Posture Identification System for Good Sitting Position Chee Chin Lim, Shafriza Nisha Basah and Mohd Akhmal Ali
1500	B9-5	Leg Length Inequality Effects on Ground and Lower Extremity Joint Reaction Forces during Walking in Vision-based Human Motion Capture S.W.K. Ali Zabri, K.S. Basaruddin, A.F. Salleh, W.M.R. Rusli and S.N. Basah
1515	B9-6	Effect of the Lacuna Distribution on Stress and Strain in Single Osteon Ismail A.A, Ruslizam Daud, Omar M.I., Junoh A.K and Zain N.A.M

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SESSION B10



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22nd August 2017, Sri Perak 2 (14:00-16:00)

Session B10: **Biomedical Signal and Image Processing III**

1400	B10-1	Development of New Algorithm for Neurometric Index (NI) Based on EEG Signals Saidatul Ardeenawatie, Vikneswaran Vijean and Hariharan Muthusamy
1415	B10-2	Segmentation Based Classification for Minimizing Number of Mitosis Candidates on Breast Histopathological Images Tan Xiao Jian, Nazahah Mustafa, Mohd Yusoff Mashor and Khairul Shakir Ab Rahman
1430	B10-3	Effective Detection of Parkinson's Disease Severity Levels through Speech Signals using Short-term Cepstral Based Features Qi Wei Oung, Shafriza Nisha Basah, Hariharan Muthusamy, Hoi Leong Lee and Vikneswaran Vijean
1445	B10-4	Prediction of Biological Activities of Volatile Metabolites Using Molecular Fingerprints and Machine Learning Methods Azian Azamimi Abdullah and Shigehiko Kanaya