

**JABATAN KEJURUTERAAN BIOLOGI DAN PERTANIAN / DEPARTMENT OF BIOLOGICAL AND AGRICULTURAL ENGINEERING**

**Jurnal/Journals**

1. **Norhashila Hashim**, Rimfiel B. Janius, Russly Abdul Rahman, Azizah Osman, Mahendran Shitan and Manuela Zude, 2013, Application of Computer Vision in the Detection of Chilling Injury in Bananas, *Pertanika Journal of Science & Technology*, , Vol. 21 (1), p.p: 111-118, Scopus.
2. Ramin Shamsiri & **Wan Ishak Wan Ismail**, 2013, Exploring GPS Data for Operational Analysis of Farm Machinery, *Research Journal of Applied Sciences, Engineering & Technology*, Vol. 5 (12), p.p: 3281-3286, Thomson ISI.
3. Solomon Musa Dauda, **Ahmad Desa**, Khalina Abdan, Othman Jamarei, 2013, Performance Evaluation of a Tractor Mounted Kenaf Harvesting Machine, *Academic Research International*, Vol. 4 (2), p.p: 70-81, I.F 0.257, Thomson ISI.
4. Ranya Elsheikh, **Abdul Rashid B. Mohamed Shariff**, Fazel Amiri, Noordin Ahmad, Siva Kumar Balasundram, Mohd Amin Mohd Soom, 2013, Agriculture Land Suitability Evaluator (ALSE): A Decision and Planning Support Tool for Tropical and Subtropical Crops, *Computers and Electronics in Agriculture*, Vol. 93 (2013), p.p: 98-110, I.F 1.846, Thomson ISI.
5. Fazel Amiri, **Abdul Rashid bin Mohamed Shariff**, Taybeh Tabatabaie, Biswajeet Pradhan, 2013, A Geospatial Model for the Optimization Grazing Management in Semi-Arid Rangeland of Iran, *Arabian Journal of Geosciences*, I.F 1.141, Thomson ISI.
6. Meftah Salem M. Alfatni, **Abdul Rashid Mohamed Sharif**, Mohd Zaid Abdullah, Mohammad Hamiruce B. Marhaban, Osama Ben Saaed, 2013, The Application of Internal Grading System Technologies for Agricultural Products - Review, *Journal of Food Engineering*, Vol. 116 (2013), p.p: 703-725, I.F 2.276, Thomson ISI.
7. Muhammad Rizuwan Yahaya, Mohd Hudzari Hj Razali, Che Abdullah Abu Bakar, **Wan Ishak Wan Ismail**, Wan Musa Wan Muda, Nashriyah Mat & Jamil Zakaria, 2013, Automatic Alkaloid Removal System, *Pakistan Journal of Biological Sciences*, Thomson ISI.
8. A.S. Abdullah, **D. Ahmad**, M.S.M. Amin & W. Aimrun, 2013, Spatial & Temporal Aspects of Evapotranspiration in Tanjung Karang Paddy Field, Peninsular Malaysia, *International Journal of Science, Engineering & Technology Research (IJSETR)*, Vol. 2 (2), p.p: 473-479, I.F 1.4, Google Scholar.
9. Amer N. N. Kakahy, **D. Ahmad**, MD. Akhir, S.Sulaiman & Ishak A., 2013, Effects of Feeding Angles & Cutting Speeds of a Mower Knife with Serrated Edges on the Pulverization of Sweet Potato Vines, *Advanced Materials Research*, Vol. 626 (2013), p.p: 260-264, Scopus.
10. **Ahmad, D.**, Jamarei, O., S., Fashina, A. B. & Akande, F. B., 2013, Modelling of Motion Resistance Ratios of Pneumatic & Rigid Bicycle Wheels, *Pertanika Journal of Science & Technology*, Vol. 21 (1), p.p: 59-74, Scopus.
11. Abubakar Sadiq Abdullahi, **Mohammad Amin Mohammad Soom**, Desa Ahmad, Abdul Rashid Mohamed Shariff, 2013, Characterization of rice (*Oryza Sativa*) Evapotranspiration using Micro Paddy Lysimeter and Class "A" Pan in Tropical Environment, *Australian Journal of Crop Science*, Vol. 7 (5), p.p: 650-658, I.F 1.632, Scopus.
12. Mohd Hudzari Hj Razali, **Wan Ishak Wan Ismail**, Mohd Rokli Hizra Ramli, Muhamad Azhar A Wahid & Abdul Aziz Abdullah, 2013, Engine Revolution per Minute Estimation Conversion for Field Experiment in Farm Mechanization Training, *Journal of Modeling, Simulation, Identification and Control (Columbia International Publishing)*, Vol. 1 (2013), p.p: 51-56, EBSCO.
13. **Norhashila Hashim**, Mitchael Pflanz, Christian Regen, Rimfiel B. Janius, Russly Abdul Rahman, Azizah Osman, Mahendran Shitan and Manuela Zude, 2013, An Approach for Monitoring the Chilling Injury Appearance in Bananas by Means of Backscattering Imaging, *Journal of Food Engineering*, Vol. 116 (2013), p.p: 28-36, I.F 2.276, Thomson ISI.
14. Kakahy, A.N.N., **Ahmad, D.**, Akhir, M.D., Sulaiman, S., Ishak, A., 2013, Effects of Cutting Speeds and Moisture Content on Grass Chopping (Pulverizing), *Advanced Science Letters*, Vol. 19 (9), p.p: 2533-2535, I.F 1.253, Scopus.
15. Ramin Shamsiri & **Wan Ishak Wan Ismail**, 2013, Design and Simulation of Control System for a Field Survey Mobile Robot Platform, *Research Journal of Applied Sciences, Engineering & Technology*, Vol. 6 (13), p.p: 2307-2315, Thomson ISI.
16. Mohd Fauzie Jusoh, **Mohamed Azwan Mohamed Zawawi**, Hasfalina Che Man & Suzilawati Kamaruddin, 2013, Performance of Shallow Tube Well on Groundwater Irrigation in Tropical Lowland Rice Cultivation Area, *Sains Malaysiana*, Vol. 42 (8), p.p: 1101-1108, I.F 0.408, Thomson ISI.

17. Amer N. N. Kakahy, **D. Ahmad**, MD. Akhir, S.Sulaiman & Ishak A., 2013, Effect of Knife Shapes and Cutting Speeds of a Mower on the Percentage Pulverization of Sweet potato Vine, *Applied Mechanics and Materials*, Vol 421 (2013), p.p: 29-33, Scopus.
18. Ramin Shamsiri & **Wan Ishak Wan Ismail**, 2013, Design and Analysis of Full-state Feedback Controller for a Tractor Active Suspension: Implications for Crop Yield, *International Journal of Agriculture & Biology*, Vol. 15 (2013), p.p: 909-914, I.F 0.808, Thomson ISI.
19. **W. I. Wan Ishak**, R. M. Hudzari and M. Y. Tan, 2013, Development of an Automation and Control Design System for Lowland Tropical Greenhouses, *Pertanika Journal of Science & Technology*, Vol. 21 (1), p.p: 357-366, Scopus.
20. Ramin Shamsiri & **Wan Ishak Wan Ismail**, 2013, A Review of Greenhouse Climate Control and Automation System in Tropical Regions, *Journal of Agricultural Science and Applications*, Vol. 2 (3), p.p: 175-182, Google Scholar.
21. Tajudeen Abiodun Ishola, **Azmi Yahya**, Abdul Rashid Mohammed Shariff, Samsuzana Abd Aziz & Chow Syh Chuan, 2013, Effect of Operational Variables on Rotary Valve Metering System for a Variable Rate Technology Fertilizer Applicator for Oil Palm, *Journal of Applied Sciences*, Vol. 13 (3), p.p: 479-484, Thomson ISI.
22. Mohammed S. Nusari, **Mohd A. M. Soom**, Thamer A. Mohammad, Abdul H. Ghazali, Aimrun Wayayok & Mohamed A. M. Zawawi, 2013, Assessment of Seawater Intrusion in Langat Basin, Malaysia, *Proceedings of the Institution of Civil Engineers-Water Management*, Vol. 166 (9), p.p: 501-515, I.F 0.602, Thomson ISI.
23. Saberioon M. M., **M. S. M. Amin**, W. Aimrun A. R. Anuar and A. Gholizadeh, 2013, Multi-Spectral Omages Tetracam Agriculture Digital Camera to Estimate Nitrogen and Grain Yield of Rice at Different Growth Stages, *Philippine Agricultural Scientist*, Vol. 96 (1), p.p: 108-112, I.F 0.333, Thomson ISI.
24. Hudzari R.M., **W. Aimrun**, M.A.H.A Ssomad, M.S. Norazean, 2013, Application of Geographical Information System for Farm Mechanization Education and Training, *Scientific Journal of Pure and Applied Sciences*, Vol. 2 (4), p.p: 196-203, Google Scholar.
25. Mohammad Mehdi Saberioon, **Mohd. Soom Mohd Amin**, Wayayok Aimrun, Asa Gholizadeh Anuar Abd. Rahim Anuar, 2013, Assessment of Colour Indices Derived from Conventional Digital Camera for Determining Nitrogen, *Journal of Food, Agriculture & Environment*, Vol. 11 (2), p.p: 655-662, I.F 0.517, Thomson ISI.
26. Saeed, Osama Mohamed Ben, **Shariff, Abdul Rashid Mohamed**, Mahmud, Ahmad Rodzi B., Shafri, Helmi Zuhaidi Mohd, Alfatni, Meftah Salem, Aouache, Mustapha, 2013, Oil Palm Fruit Classification using Spectrometer, *Advanced Science Letters*, Vol. 19 (9), p.p: 2651-2653, I.F 1.253, Scopus.
27. Saeed, Osama Mohamed Ben, **Shariff, Abdul Rashid Mohamed**, Mahmud, Ahmad Rodzi B., Shafri, Helmi Zuhaidi Mohd, Alfatni, Meftah Salem, Aouache, Mustapha, Ehsani, Reza, 2013, Ripeness Detection of Oil Palm Fresh Fruit Bunches using 4-Band Sensors, *Advanced Science Letters*, Vol. 19 (12), p.p: 3468-3472, I.F 1.253, Scopus.
28. Alfatni, Meftah Salem, M., **Shariff, Abdul Rashid Mohamed**, Abdullah, Mohd Zaid, Marhaban, Mohd Hamiruce, Shafie, Suhaidi B., Saaed, Osama M. Ben, 2013, Recognition System of Oil Palm Fruit Bunch Types Based on Texture Feature and Image Processing Technique, *Advanced Science Letters*, Vol. 19 (12), p.p: 3441-3444, I.F 1.253, Scopus.
29. Alfatni, Meftah Salem, M., **Shariff, Abdul Rashid Mohamed**, Abdullah, Mohd Zaid, Marhaban, Mohd Hamiruce, Shafie, Suhaidi B., Saaed, Osama M. Ben, 2013 Oil Palm Fruit Grading System Based on Basic Gray Level Aura Matrix Feature Extraction and Support Vector Machine, K Nearest Neighbourhood and Artificial Neural Network Supervised Machine Learning, *Advanced Science Letters*, Vol. 19 (9), p.p: 2612-2614, I.F 1.253, Scopus.
30. Ruzinoor Che Mat, **Abdul Rashid Mohamed Shariff**, Biswajeet Pradhan, Ahmad Rodzi Mahmud, Mohd Shafry Mohd Rahim and Amjad Rehman, 2013, A comparison between Four-Tier Framework and Three-Tier Framework for online applications of 3D GIS Visualization, *Life Science Journal*, Vol. 10 (3), p.p: 1534-1540, I.F 0.165, Thomson ISI.
31. Galavi, Hadi, Mirzaei, Majid, **Shui, Lee Teang**, Valizadeh, Nariman, 2013, Klang River-level Forecasting using ARIMA and ANFIS Models (PDF), *Journal-American Water Works Association*, Vol. 105 (9), p.p: E496-E506, I.F 0.627, Thomson ISI.
32. Asa Gholizadeh, **Mohd Amin Mohd Soom**, Mohammad Mehdi Saberioon and Lubas Boruvka, 2013, Visible and Near Infrared Reflectance Spectroscopy to Determine Chemical Properties of Paddy Soils, *Journal of Food, Agriculture & Environment*, Vol. 11 (2), p.p: 859-866, I.F 0.517, Thomson ISI.
33. **Azmi Yahya**, Khairunnisa Hamdan, Tajudeen Abiodun Ishola, Hadi Suryanto, 2013, Physical and Mechanical properties of *Jatropha Curcas* L. Fruits from Different Planting Densities, *Journal of Applied Sciences*, Vol. 13 (7), p.p: 1004-1012, Thomson ISI.

34. Tajudeen Abiodun Ishola, **Azmi Yahya**, Abdul Rashid Mohammed Shariff, Samsuzana Abd Aziz, 2013, An RFID-based Variable Rate Technology Fertilizer Application for Tree Crops, *Journal of Applied Sciences*, Vol. 13 (3), p.p: 409-415, Thomson ISI.
35. El-Pebrian, D., **Azmi Yahya**, 2013, Mechanized System for inField oil Palm Fresh Fruit Bunches Collection-Transportation, *Agricultural Mechanization in Asia, Africa and Latin America (AMA)*, Vol. 44 (2), p.p: 7-14, I.F 0.062, Thomson ISI.
36. Tajudeen Abiodun Ishola, **Azmi Yahya**, AbdulRashid Mohammed Shariff, Samsuzana Abd Aziz & Chow Syh Chuan, 2013, Effects of Operational Variables on Rotary Valve Metering System for a Variable Rate Technology Fertilizer Applicator for Oil Palm, *Journal of Applied Sciences*, Vol. 13 (3), p.p: 479-484, Thomson ISI.
37. El-Pebrian, D., **Azmi Yahya**, Nawi, N. M., Siang, T.C., Bockari-Gevao, S. M., 2013, Monitoring and Auditing Human Energy input for Oil Palm and Rice Production in Malaysia, *Philippine Agrcultural Scientist*, Vol. 96 (3), p.p: 282-289, I.F 0.333, Thomson ISI.
38. Ataur Rahman, **Azmi yahya**, 2013, Performance Investigation of an Advance Tracked Prime Mover on the low Bearing Soil, *Journal of Therramechanics*, Vol. 50 (2013), p.p: 233-244, I.F 0.853, Thomson ISI.
39. Norasma, C.Y.N., **Shariff, A.R.M.**, Jahanshiri, E., Amin, M.S.M., Khairunniza-Bejo, S. and Mahmud, A.R., 2013, Web-Based Decision Support System for Paddy Planting Management, *Pertanika Journal of Science and Technology*, Vol. 21 (2), p.p: 307-327, Scopus.
40. A. S. Harmaen, **A. Khalina**, A. R. Faizal and Jawaid, 2013, Effect of Triacetin on Tensile Properties of Oil Palm Empty Fruit Bunch Fiber-Reinforced Polylactic Acid Composite, *Polymer-Plastic Technology and Engineering*, Vol. 52 (2013), I.F 1.279, Thomson ISI.
41. Umara, B.G., A.S. Abdullahi, J. M. Dibal and **Desa Ahmad**, 2013, Effect of Salts Concentration on Emergence and Growth of Tomato (*Lycopersicon Esculentum*) in Tropical Areas, *International Journal of Engineering and Innovative Technology (IJEIT)*, Vol. 3 (2), p.p: 228-291.
42. Pardis Fazli, **Hasfalina Che Man**, Umi Kalsom Md Shah & Azni Idris, 2013, Characteristics of Methanogens and Methanotrophs in Rice Fields: A Review, *Asia-Pacific Journal of Molecular Biology and Biotechnology*, Vol. 21 (1), p.p: 3-17.
43. **Azmi Yahya**, Su Vui Heong, El-Pebrian. D, Tajudeen Abiodun Ishola, 2013, Performance and Economic Comparisons of Manual and Mechanised Fertiliser Application for Mature Oil Palm, *The Planter*, Vol. 89 (1046), p.p: 323-340.
44. M.H. Ezrin, **W. Aimrun**, M.S.M Amin and S. Khairunniza-Bejo, 2013, Development of on-the go Soil Nitrogen mapping System for Site Specific Management, *Journal - The Institution of Engineers, Malaysia*, Vol. 74 (1), p.p: 14-20.

### Prosiding/Proceedings

1. Hasfalina C.M., Maryam R. Z., Luqman C.A., Rashid M., Kinetic and Equilibrium Studies of Copper (II) Removal from Aqueous Medium by Kenaf Fibres in proceeding of the World Academy of Science, Engineering & Technology, Zurich, 13 Jan 2013.
2. Meftah Salem M. Alfatni, Abdul Rashid Mohamed Shariff, mohd Zaid Abdullah, Mohd Hamiruce Marhaban, Suhaidi B. Shafie, mohd Din Bin Amiruddin & Osama M. Ben Saaed, Oil Palm Fruit Maturity Classification Based on Texture Feature Extraction of Thorns and Supervised Machine Learning Classifiers in proceeding of the International Conference on Agricultural Engineering, Sultan Qaboos Uni., Muscat, Oman, 24 - 26 February 2013.
3. Aimrun W., Application of Multi-GNSS in Sustainable Agriculture Through Precision Practice in the proceeding of the Workshop on Space Applications for Disaster Risk Reduction and Management in Asia and the Pacific and the Second Workshop on Use of Multi-Global Navigation Satellite System for Sustainable Development, United Nations Conference Centre, Bangkok, Thailand, 5 – 7 Mac 2013.
4. Usman Zubairu, U.B., Aimrun W. and Amin M.S.M, SRI Single Seedling Nursery Tray: An Innovative Breakthrough to Challenges in Raising and Transplanting Seedlings in the proceeding of the 2nd SRI National Conference (SRI2013), Orient Star, Lumut, Perak, 11 – 13 Jun 2013.
5. Amer N. N. Kakahy, D. Ahmad, MD. Akhir, S.Sulaiman & Ishak A., Pulverization of Sweet Potato Vines at Different Mower Speeds in the proceeding of the 2nd International Conference on Mechanical Engineering Research (ICMER2013), UPM, Kuantan, Pahang, Malaysia, 1 – 3 Julai 2013.
6. Amer N. N. Kakahy, D. Ahmad, MD. Akhir, S.Sulaiman & Ishak A., Effect of Knife Shapes and Cutting Speeds of a Mower on the Power Consumption for Pulverization of Sweet potato Vine in the proceeding of the 4th International Conference on Information Technology for Manufacturing Systems (ITMS2013), Auckland, New Zealand, 28 – 29 Ogos 2013.
7. Amer N. N. Kakahy, D. Ahmad, MD. Akhir, S.Sulaiman & Ishak A., Effect of Knife Shapes and Cutting Speeds of a Mower on the Power Consumption for Pulverization of Sweet potato Vine in the

proceeding of the 2nd International Conference on Advance Material Engineering & Technology 2013 (ICMET2013), Bandung, Indonesia, 28 – 29 November 2013.

8. Khairunniza-Bejo, S. and Haiiri, N.L.S.H., Mengenalpasti Kandungan Kelembapan Padi di Bawah Permukaan Objek Menggunakan Teknologi Pengimejan untuk Persidangan Padi Kebangsaan 2013, Seberang Jaya, Pulau Pinang, Malaysia, 10 – 12 Disember 2013.
9. Khairunniza-Bejo, S. and Jamil, N., Preliminary Study on Detection of Fungal Infection in Stored Paddy Using Thermal Image in the proceeding of the International Conference on Agriculture and Biotechnology, Kuala Lumpur, Malaysia, 29 – 30 Disember 2013.

#### **Buku/Books**

1. Ehsan Goodarzi, Mina Ziaei, Lee Teang S, 2013. Topics in Safety, Risk, Reliability and Quality: Introduction to Risk and Uncertainty in Hydrosystem Engineering Dordrecht. Springer Netherlands. No ISBN: 9789400758506; 9789400758513.
2. Majid Mirzaei, Lee Teang Shui, 2013. Uncertainty Analysis of Extreme Hydrological Events. LAMBERT Academic Publishing (LAP). No. ISBN: 978-3-659-30325-8.

#### **Bab Dalam Buku/Chapter in Books**

1. Ahmad Fikri Abdullah, 2013. A Methodology for Processing Raw LiDAR Data to Support Urban Flood Modelling Framework: Case Study - Kuala Lumpur Malaysia, Developments in Multidimensional Spatial Data Models, p.p: 43 - 68. Springer Berlin Heidelberg. No. ISBN: 978-3-642-36378-8.

#### **Majalah/Magazine**

- 1 Hasfalina C.M., Maryam R. Z., Luqman C.A., Rashid M., 2013. Strengthening Employability Skills Programme and IEM's AFETD Membership Drive, *JURUTERA*, P.P: 39-40.