



CURRICULUM VITAE



Dr. Aimrun Wayayok
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Education

1. Ph.D. Smart Farming Technology, 2006, Universiti Putra Malaysia, Malaysia
2. M.S. Soil and Water Engineering, 2002, Universiti Putra Malaysia, Malaysia
3. B. Sc. Soil Science, 1999, King Mongkut's Institute of Technology Ladkrabang (KMITL), Thailand

Areas of Interest

1. Soil and Water Engineering
2. Precision Farming Engineering
3. Irrigation and Drainage Engineering

Professional Qualification/ Membership/ Affiliation

1. Malaysian National Committee on Irrigation and Drainage (MANCID) since 25 November 2008 (A358)
2. Malaysian Remote Sensing Society (MRSS) since 26 May 2008 (A307)
3. American Society of Agricultural and Biological Engineers (ASABE) since Apr 2013 (1045328)
4. Malaysian Society of Agricultural Engineers (MSAE) since 20 Mar 2012

Appointments

Position	Duration
1. Senior Lecturer (DS51) at the Department of Biological and Agricultural Engineering, Faculty of Engineering, Universiti Putra Malaysia, Serdang, Selangor, Malaysia.	27th March 2012 – now
2. Research Fellow (UDQ9) at Universiti Putra Malaysia, Serdang, Selangor, Malaysia. "Precision Farming of Rice".	August 2010 – March 2012
3. Senior post doctoral researcher at Universiti Putra Malaysia, Serdang, Selangor, Malaysia. "Precision Farming of Rice".	August 2008 – August 2010
4. Post doctoral researcher at Universiti Putra Malaysia, Serdang, Selangor, Malaysia. "Precision Farming of Rice".	July 2006 – July 2008
5. Graduate research Assistant (GRA) at Universiti Putra Malaysia, Serdang, Selangor, Malaysia. "Monitoring of Soil Properties for Rice Precision Farming using EC Sensor".	May 2002-June 2006
6. Graduate Research Assistant (GRA) at Universiti Putra Malaysia, Serdang, Selangor, Malaysia. "Soil Water Movement in a Paddy Soil".	May 1999-November 2001

Publications

Journals (30 recent journals)

1. Eltaib S. M., M. S. M. Amin, M. M. Hanafi, A. R. M. Shariff and **A. Wayayok**. 2003. Spatial Variability of Total N and Available P of Large Rice Field in Sawah Sempadan Malaysia. *Science Asia, Journal of the Science Society of Thailand*. Vol.29 No. 1. ISSN: 1513-1874 (IF=0.344)
2. **Aimrun W.**, M.S.M. Amin, S.M. Eltaib. 2004. Effective Porosity of Paddy Soils as an Estimation of its Saturated Hydraulic Conductivity. *Geoderma* 121 (2004) 197-203. (IF=2.318)
3. **Aimrun W.**, M. S. M. Amin, Desa Ahmad, M. M. Hanafi, C. S. Chan. 2007. Spatial Variability of Bulk Soil Electrical Conductivity in a Malaysian Paddy Field: Key to Soil Management. *Paddy and Water Environment*. 2007 5(2) 113-121. DOI 10.1007/s10333-007-0072-z (IF=0.986)
4. **Aimrun W.** and M.S.M. Amin. 2009. Pedo-Transfer Function for Saturated Hydraulic Conductivity of Lowland Paddy Soils. *Paddy and Water Environment*. 2009 7:217–225 DOI: 10.1007/s10333-

- 009-0165-y (IF=0.986)
5. Ezrin M.H., M.S.M. Amin, A.R. Anuar and **W. Aimrun**. 2009. Rice Yield Prediction Using Apparent Electrical Conductivity of Paddy Soils. *European Journal of Scientific Research*. ISSN 1450-216X Vol 37 No. 4 (2009), pp.575-590.
 6. Gholizadeh A., M.S.M. Amin, A.R. Anuar and **W. Aimrun**. 2009. Evaluation of Leaf Total Nitrogen Content for Nitrogen Management in a Malaysian Paddy Field by Using Soil Plant Analysis Development Chlorophyll Meter. *American Journal of Agricultural and Biological Sciences* 4 (4): 278-282, 2009. ISSN 1557-4989.
 7. **Aimrun W.**, M.S.M. Amin and A. Gholizadeh. 2010. Spatial Variability of Irrigation Water Percolation Rates and Its Relation to Rice Productivity. *American Journal of Applied Sciences* 7 (1): 51-55, 2010. ISSN 1546-9239.
 8. Ezrin M.H., M.S.M. Amin, A.R. Anuar and **W. Aimrun**. 2010. Relationship between Rice Yield and Apparent Electrical Conductivity of Paddy Soils. *American Journal of Applied Sciences* 7 (1): 63-70, 2010. ISSN 1546-9239.
 9. Nouri, H., MSM. Amin, J. Razavi, A. R. Rahim, **W. Aimrun**, S. Chavoshi Borujeni, 2010. Sugar Beet Performance Affected by Uniformity of N Fertigation. *American Journal of Applied Science* 7(3): 366-370. ISSN 1546-9239
 10. Nouri H., M.S.M. Amin, S.J. Razavi,A.R. Anuar, **W. Aimrun** and S. Chavoshi Borujeni, 2010. Impact of Sprinkler Irrigation Uniformity on the Variability of Sugar Beet Leaf N Content. *International Journal of Soil Science* 5 (4): 206-215. ISSN 1816-4978. DOI: [10.3923/ijss.2010.206.215](https://doi.org/10.3923/ijss.2010.206.215)
 11. **Aimrun W.**, M.S.M. Amin, H. Nouri. 2011. Paddy Field Zone Characterization using Apparent Electrical Conductivity for Rice Precision Farming. *International Journal of Agricultural Research* 6 (1): 10-28. ISSN 1816-4897/ DOI: [10.3923/ijar.2011.10.28](https://doi.org/10.3923/ijar.2011.10.28).
 12. Gholizadeh A., M.S.M. Amin, A.R. Anuar, **W. Aimrun** and M.M. Saberioon. 2011. Temporal Variability of SPAD Chlorophyll Meter Readings and its Relationship to Total Nitrogen in Leaves within a Malaysian Paddy Field. *Australian Journal of Basic and Applied Sciences*, 5(5): 236-245, 2011 ISSN 1991-8178
 13. Mastura M., Amin M. S. M. and **Aimrun W.** 2011. Characterization of Paddy Soil Compaction Based on Soil Apparent Electrical Conductivity Zones. *African Journal of Agricultural Research* ISSN: 1991-637X Vol. 6(11), pp. 2506-2515, 4 June, 2011([0.263](#))
 14. Gholizadeh, A., Amin, M.S.M., Anuar A.R. and **Aimrun, W.** 2011. Using SPAD chlorophyll meter for two growth stages to assess grain yield of Malaysian rice (*Oryza sativa*). *American Journal of Agricultural and Biological Sciences* 6 (2): 209-213, 2011 ISSN 1557-4989
 15. Gholizadeh, A., Amin, M.S.M., Anuar A.R. and **Aimrun, W.** 2011. Apparent electrical conductivity in correspondence to soil chemical and plant nutrients in soil. *Communications in Soil Science and Plant Analysis*. 42:1447–1461, 2011. doi:10.1080/00103624.2011.577862 (IF=0.506)
 16. **Aimrun W.**, M. S. M. Amin, M.H. Ezrin and M.Mastura. 2011. Paddy Soil Properties and Yield Characteristics Based On Apparent Electrical Conductivity Zone Delineation For A Humid Tropical Rice Farm. *African Journal of Agricultural Research* ISSN: 1991-637X Vol. 6(23), pp. 5339-5350, 19 October, 2011 ([0.263](#))
 17. Gholizadeh, A., Amin, M.S.M., Anuar A.R. and **Aimrun, W.** 2012. Relationship between apparent electrical conductivity and soil physical properties in a Malaysian paddy field. *Archives of Agronomy and Soil Science* 2012, 58:2, 155-168, iFirst article.
 18. Maina M. M., M. S. M. Amin , **W. Aimrun** and I. Sani. 2012. Soil Salinity Assessment of Kadawa Irrigation of the Kano River Irrigation Project (KRIP). *Journal of Food, Agriculture & Environment* Vol.10 (3&4), 132-138. WFL Publisher. ISSN: 1459-0255 (IF=0.517)
 19. M.H. Ezrin, Gholizadeh A., Amin M.S.M., **Aimrun W.**, Azhareensyah A.. 2012. Development of Total Nitrogen Content Mapping System using Apparent Soil Electrical Conductivity Sensor for Site Specific Application. *Wulfenia Journal* No.9, volume 19, Sep 2012. ISSN: 1561-882X (IF=0.267)
 20. Hudzari R.M., **Aimrun W.** and Syahril A. 2012. Precision Farming for Farm Mechanization Education. *Technical Journal of Engineering and Applied Sciences* 2 (3): 79-83, 2012. ISSN 2051-0853.
 21. M. M. Maina, M.S.M. Amin, **W. Aimrun** and T. S. Asha, 2012. Evaluation of Different ETO Calculation Methods: A Case Study in Kano State, Nigeria, *The Philippine Agricultural Scientist*, 95(4), pp 378-382. ISSN: 0031-7454 (IF=0.333)
 22. Mohammed S. Nusari, Mohd A. M. Soom, Thamer A. Mohammad, Abdul H. Ghazali, **Aimrun Wayayok** and Mohamed A. M. Zawawi. 2013. Assessment of seawater intrusion in Langat basin, Malaysia. 2013. Proceedings of the ICE - Water Management. 166(9), 501-515. ISSN : 1741-7589

(IF=0.602)

23. Abdullahi A.S., Ahmad D., Amin M.S.M. and **Aimrun W.** 2013. Spatial and Temporal Aspects of Evapotranspiration in Tanjung Karang Paddy Field, Peninsular Malaysia. *International Journal of Science, Engineering and Technology Research (IJSETR)* Volume 2, Issue 2, February 2013. ISSN: 2278 – 7798
24. Saberioon M. M., M. S. M. Amin, **W. Aimrun**, A. R. Anuar and A. Gholizadeh. 2013. Multi-Spectral Images Tetracam Agriculture Digital Camera to Estimate Nitrogen and Grain Yield of Rice at Different Growth Stages. *The Philippine Agricultural Scientist*, 96(1), pp 108–112. ISSN: 0031-7454 (IF=0.333)
25. 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* 2(4) 196-203 ISSN 2322-2956
26. Mohammad Mehdi Saberioon, Mohd. Soom Mohd. Amin, **Wayayok Aimrun**, Asa Gholizadeh and Anuar Abd. Rahim Anuar. 2013. Assessment of colour indices derived from conventional digital camera for determining nitrogen status in rice plants. *Journal of Food, Agriculture & Environment* Vol.11 (2), 655-662. WFL Publisher. ISSN: 1459-0255 (IF=0.517)
27. Ezrin M.H., **Aimrun W.**, Amin M.S.M. and Khairunniza-Bejo S. 2013. Development of On-the-Go Nitrogen Mapping System for Site Specific Management. *The Journal of The Institute of Engineers, Malaysia* Vol. 74 No. 1, 14-20. ISSN: -126-513X.
28. Zubairu Usman Bashar, **Aimrun Wayayok** and Amin Mohd Soom Mohd. 2014. Determination of Some Physical Properties of Common Malaysian Rice MR219 Seeds. *Australian Journal of Crop Science* AJCS 8(3):332-337 (2014). ISSN:1835-2707
29. Faranak Ghobadifar, **Aimrun Wayayok**, Shattri Mansor and Helmi Zulhaidi Shafri. 2014. Detection of BPH (Brown Planthopper) Sheath Blight in Rice Farming using Multispectral Remote Sensing. DOI:10.1080/19475705.2014.885468 *Geomatics, Natural Hazards and Risk* ISSN 1947-5705 (IF=0.977).
30. Siti Sharifah Bibi Hanibah, Siti Khairunniza-Bejo , Wan Ishak Wan Ismail and **Aimrun Wayayok**. 2014. Determination of Physical Rice Composition using Image Processing Technique. *Journal of Food, Agriculture & Environment* Vol.12 (1): 205-209. WFL Publisher. ISSN: 1459-0255 (IF=0.517)

Conference Proceedings (30 recent Conference Proceedings)

1. Amin M.S.M., **W. Aimrun** and M.Y. Rosnah. 2007 Lean Technique in Agriculture Production. The 37th International Conference on Computers and Industrial Engineering. 20-23 October 2007. Helnan El Montaza Royal Gardens, Alexandria, Egypt.
2. Alansi. M.A.-Wahab, M.S.M. Amin, G. Abdul Halim, Z.M. Shafri and **W. Aimrun**. 2008. Optimization Techniques Toward Best Watershed Management : Overview. International Conference on Civil Engineering 2008 (ICCE'08): Challenges in Facing Natural Hazards for Future Engineering Practice. 12th-14th May 2008 at Hyatt Regency Kuantan Resort, Kuantan, Pahang, Malaysia.
3. Waleed ARM, M.S.M. Amin, G Abdul Halim, MS Abdul Rashid, **W. Aimrun**. 2008. River Flow Modeling using Radar Derived Rainfall Data - A Case Study of Upper Bernam River Basin, Malaysia. International Conference on Civil Engineering 2008 (ICCE'08): Challenges in Facing Natural Hazards for Future Engineering Practice. 12th-14th May 2008 at Hyatt Regency Kuantan Resort, Kuantan, Pahang, Malaysia.
4. Amin MSM and **W Aimrun**. 2008. Using Electroconductivity Sensors for Precision Farming Zones of Malaysian Paddy Fields. 12th Annual Symposium on Precision Agriculture in Australasia. 19th September 2008, Australian Technology Park, Eveleigh, Sydney, Australia.
5. **Aimrun W** and MSM Amin. 2008. Spatial Variability of Irrigation Percolation Rates and its Relation to Rice Productivity. The 3rd International Conference on Water Resources and Arid Environments (2008) and The 1st Arab Water Forum. 16-19th November 2008, The King Fahd Cultural Center, Riyadh, Saudi Arabia.
6. Waleed ARM, MSM Amin, G Abdul Halim, ARM Shariff and **W Aimrun**. 2008. Calibrated Radar Derived Rainfall Data for Rainfall-Runoff Modeling: A Case Study on Upper Bernam River Basin, Malaysia. The 3rd International Conference on Water Resources and Arid Environments (2008) and The 1st Arab Water Forum. 16-19th November 2008, The King Fahd Cultural Center, Riyadh, Saudi Arabia.
7. Nouri H., MSM Amin, SJ Razavi and **W Aimrun**. 2008. Effect of Nitrogen Fertigation by Sprinkler Irrigation on the Variability of Crop Performance. International Conference on Science and Technology: Applications in Industry and Education. 12-13th December 2008, Universiti Teknologi

- MARA, Pulau Pinang, Malaysia. Page 358-364.
8. Nouri, H., S.J. Razavi, MSM. Amin, T.S. Lee, **W. Aimrun**, 2009. Variability of Crop Properties Affected by Fertigation Distribution Pattern. XXXIII CIOSTA, Technology and management to ensure sustainable agriculture, CIGR V conference (Jun 2009), Italy.
 9. Nouri H., S.J. Razavi, M.S.M. Amin, **W. Aimrun** and T.S. Lee. 2009. Application of Precision Farming Principles for Determination of Temporal and Spatial Variation in a Sugar Beet Field. In: Bregt, A., Wolfert, S., Wien, J.E., Lokhorst, C. (Eds.), European Federation for Information Technology in Agriculture, EFITA conference '09/Joint International Agricultural Conference (JIAC '09). Proceedings of the 7th EFITA Conference, Wageningen, The Netherlands, 6-8 July 2009, Wageningen Academic Publishers, Wageningen, pp. 531-538.
 10. Nouri H., MSM Amin, S.J. Razavi, **W. Aimrun**, A.R. Anuar . 2009. Urea and its Effect on Tuber Quality of Sugar Beet. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 11. Gholizadeh A., M.S.M. Amin, A.R. Anuar, **W. Aimrun**. 2009. Non-destructive Estimation of Nitrogen Status Using SPAD Chlorophyll Meter in two Different Rice Growth Stages. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 12. **Aimrun W.** and MSM Amin. 2009. Paddy Field Zone Delineation using Electrical Conductivity Sensor for Precision Farming of Rice. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 13. Khadijah A.S, M.S.M. Amin and **W. Aimrun**. 2009. Using RGB Color Space to Determine Organic Carbon Value in Soil: Comparison among Available Software. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 14. Ezrin M.H., M.S.M. Amin, A.R. Anuar and **Aimrun W.** 2009. Rice Yield Prediction Based on Apparent Electrical Conductivity of Paddy Soils. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 15. Waleed A.R.M , M.S.M. Amin, **W. Aimrun**, G. Abdul Halim, A.R.M. Shariff, A.W. Alansi and M.H. Ezrin. 2009. Calibration of Radar-Derived Rainfall to Improve River Flow Estimation in Peninsular Malaysia. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 16. Alansi AW, M.S.M. Amin, G. Abdul Halim, H.Z.M Shafri, A.R.M. Waleed and **W. Aimrun**. 2009. Forecasting The Effect of Future Land Use on Watershed Water Resources in Upper Bernam Watershed, Malaysia. International Advanced Technology Congress (ATCi), PWTC, Malaysia. November 3-5, 2009.
 17. Gholizadeh A., M.S.M. Amin, A.R. Anuar, **W. Aimrun**. 2010. Evaluation of Leaf Total Nitrogen Content for Nitrogen Management in a Malaysian Paddy Field by Using Soil Plant Analysis Development Chlorophyll Meter. MRSS 6th International Remote Sensing and GIS Conference and Exhibition. 28 -29th April 2010. Putra World Trade Centre, Kuala Lumpur, Malaysia.
 18. Mohamed, M., M.S.M. Amin, **W. Aimrun**. 2010. Relationship Between Soil Apparent Electrical Conductivity and Heavy Soil Texture. MRSS 6th International Remote Sensing and GIS Conference and Exhibition. 28 -29th April 2010. Putra World Trade Centre, Kuala Lumpur, Malaysia.
 19. Nouri H., M.S.M. Amin, S. Chavoshi Borujeni and W. Aimrun. 2010. Fire Forest Management using Spatial Information. MRSS 6th International Remote Sensing and GIS Conference and Exhibition. 28 -29th April 2010. Putra World Trade Centre, Kuala Lumpur, Malaysia.
 20. Waleed A.R.M., M.S.M. Amin, and **W. Aimrun**. 2010. Irrigation Water Management Using Rainfall Data Derived from Weather Radar. World Engineering Congress (WEC 2010). 2nd – 5th August 2010, Conference on Engineering and Technology Education. Kuching, Sarawak, Malaysia.
 21. Amin M.S.M., A.R.M. Waleed and **W. Aimrun**. 2010. Improving Effective Rainfall using Virtual Stations with Radar Derived-Data. The Sixty First International Executive Council Meeting (61st IECM) and The Sixth Asian Regional Conference (6th ARC). 10 - 16 October 2010, Yogyakarta, Indonesia.
 22. **Aimrun W.**, M.S.M. Amin, M. H. Ezrin and A. Yahya. 2011. Comparison of Precision Farming and Conventional Practices for Fertilizer Management in Malaysian Paddy Fields. The 4th Asian Conference on Precision Agriculture. 4-7 July 2011, Obihiro, Hokkaido, Japan.
 23. Ezrin M. H., M.S.M. Amin and **W. Aimrun**. 2011. An Approach of Neural Networks to Predict Rice Yield using Apparent Electrical Conductivity of Paddy Soils. The 4th Asian Conference on Precision Agriculture. 4-7 July 2011, Obihiro, Hokkaido, Japan.
 24. Amin M.S.M., **W. Aimrun** and M.H. Ezrin. 2011. Community Based Precision Farming of Rice in Tanjung Karang, Selangor, Malaysia. The 4th Asian Conference on Precision Agriculture. 4-7 July 2011, Obihiro, Hokkaido, Japan.

25. **Aimrun W.** 2012. Application of Multi-GNSS in Sustainable Agriculture Through Precision Farming Practice. The “Workshop on the Use of Multi-Global Navigation Satellite Systems for Sustainable Development” organized by the Economic and Social Commission for Asia and the Pacific (ESCAP), the United Nations (UN), with support from the Japan Space Exploration Agency (JAXA), 21st to 22nd March 2012, at the United Nations Conference Centre, Bangkok, Thailand.
26. M.H. Ezrin, M.S.M. Amin, **Aimrun W.** and S.K Bejo. 2012. Development of Soil Nitrogen Mapping System using Apparent Soil Electrical Conductivity Sensor for Paddy Field in Proceedings of the International Conference of Agricultural Engineering (CIGR-AgEng 2012) 26-28 Nov 2012, IOI Palm Garden Hotel, Putrajaya.
27. Maina M. M., M. S. M. Amin, **W. Aimrun** and A. Samsuzana. 2012. Evaluation of Field Measurements and Estimated Rice Crop Water Requirement. PAWEES 2012 International Conference. “Challenges of Water & Environmental Management in Monsoon Asia” 27-29 November 2012, Royal Irrigation Department (Pakkred), Bangkok, Thailand.
28. Fazli P., Hasfalina C. M., M. Azwan, Azni I. Umi Kalsom M. Shah and **Aimrun W.** 2012. Effect of Cultivation System on the Methane Emission from Rice Soil in Proceedings of the World Research & Innovation Convention on Engineering & Technology 2012, KL.
29. **Aimrun W.** 2013. Application of Multi-GNSS in Sustainable Agriculture Through Precision Farming Practice. 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” organized by the Economic and Social Commission for Asia and the Pacific (ESCAP), the United Nations (UN), with support from the Japan Space Exploration Agency (JAXA) 5th to 8th March 2013, at the United Nations Conference Centre, Bangkok, Thailand.
30. Maina Mamodu Mohd, Mohd Soom Mohd Amin, Md Rowshon Kamal, **Aimrun Wayayok**, Samsuzana Abdul Aziz and Mohd Yazid. 2014. Application of Web Geospatial Decision Support System for Tanjung Karang Rice Precision Irrigation Water Management. International Conference on Agriculture, Food and Environmental Engineering (ICAFEE'2014) Jan. 15-16, 2014 Kuala Lumpur (Malaysia).

Books (If any)

1. Mohd Amin Mohd Soom, Aimrun Wayayok and Ezrin Mohd Husin (Editors). 2003. Proceedings of Advanced Technology Congress; ATC 2003. Bio-Engineering 2003-SMART Farming III, ITMA. Putrajaya May 2003. ISBN 983-2871-57-3.
2. Aimrun Wayayok and Mohd Amin Mohd Soom. 2012. Pedo-Transfer Function of Paddy Soils Saturated Hydraulic Conductivity: A Simplified Method for Determining Ks Values. ISBN: 978-3-8473-4652-4, LAMBERT Academic Publishing. Published on 18 Jan 2012.
3. Aimrun Wayayok and Mohd Amin Mohd Soom. 2012. A Technique of Zone Delineation using Apparent Electrical Conductivity: Paddy Field Zone Delineation using ECa and Its Relationship to the Chemical and Physical Properties of Soils. ISBN: 978-3-8465-8504-7, LAMBERT Academic Publishing. Published on 6 Feb 2012.

Chapter in Books (If any)

1. Amin M.S.M., M.K. Rowshon and W. Aimrun. 2011. Paddy Water Management for Precision Farming of Rice, Current Issues of Water Management, Uli Uhlig (Ed.), ISBN: 978-953-307-413-9, InTech, pp. 107-142. Available from: <http://www.intechopen.com/articles/show/title/paddy-water-management-for-precision-farming-of-rice>

Research Grants

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Utilization of Optimum Potassium and Micronutrient Contents to Improve Kenaf Fiber Quality	15,000	2013-2015	Geran Putra-IPS
2.	Development of a risk map model for some selected pests in rice farming using remote sensing	15,000	2012-2014	RUGS

3.	Design and Development of SRI Single Seedling Nursery Tray and Transplanter	87,000	2012-2014	RUGS
4.	Demonstrator Application of AgriGRID in Community-based Paddy Precision Farming	2,300,000	2010-2012	DAGS- MOSTI
5.	Rice Yield Prediction Based on Near Infra Red Sensor Reading	30,000	2009-2011	RUGS
6.	Development of Real Time Electrical Conductivity Mapping System	245,000	2006-2009	Science Fund

Awards/Recognition (Current)

Num	Name of awards	Title	Award Authority	Award Type	Year
1.	Gold Medal	SOILPROP: Soil Properties Mapping System	Malaysia Technology Expo 2012(MTE)-Invention and Innovation Awards on 16 th - 18 th February 2012	National	2012
2.	Bronze Medal	On-the-Go Soil Properties Sensing System	Research Management Centre (RMC), Universiti Putra Malaysia at the Innovation and Research Exhibition on 17 th – 19 th July, 2012	National	2012
3.	Silver Medal	Web Smart Farmer	Research Management Centre (RMC), Universiti Putra Malaysia at the Innovation and Research Exhibition on 17 th – 19 th July, 2012	National	2012
4.	Gold Medal	Single Seedling Nursery Tray for SRI Planting Machine	MIExpo 2013, Universiti Putra Malaysia on 26 th - 28 th September, 2013	National	2013
5.	Bronze Medal	Single Seedling Nursery Tray for SRI Planting Machine	Malaysia Technology Expo (MTE 2014), Putra World Trade Center (PWTC) on 20 th - 22 nd February, 2014	National	2013

Professional Services/Consultation

No	Year	Title	Authority	Amount
1.	2006-2008	Precision Farming of Rice	Remote Sensing Agency, the Ministry of Science, Technology and Innovation, Malaysia	RM1,200,000
2.	2008-2013	Detailed Design of Rehabilitation, Upgrading and Modernization of Irrigation Schemes in District of Machang, Kelantan, Malaysia	Irrigation and Agricultural Drainage Division, the Ministry of Agriculture and Agro-Based Industry, Malaysia	RM100,000

Student Supervision

PhD (Main Supervisor)

No.	Name		Title	Status
1.	Faranak (GS30920)	Ghobadifar	Integrated Pest Management for Rice using Remote Sensing	Ongoing
2.	Ahmed Ali (GS37220)	Mohammed	Modelling of Wetted Diameter under Trickle Irrigation	Ongoing
3.	Usman Bashar (GS38434)	Zubairu	Design and Development of SRI Transplanter	Ongoing

MS with thesis (Main Supervisor)

No.	Name		Title	Status
1.	Umar (GS35973)	Mohammed	Development of Bioengineering Material for Weed Control in SRI Rice Farming	Ongoing
2.	Nurnadiah (GS35559)	Bt Esa	Detection of Basal Stem Rot using Electrical Resistivity	Ongoing
3.	Nur Aini binti Ismail (GS38961)		Soil Properties Characterization using Apparent Electrical Conductivity in Oil Palm Plantation	Ongoing