

CURRICULUM VITAE



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Education

1. PhD Image Processing, 2006, University of Surrey, UK.
2. B.E.(Computer System and Communications), 2001, Universiti Putra Malaysia.

Areas of Interest

1. Imaging Technology
2. Precision Agriculture

Professional Qualification/Membership/Affiliation

1. Member, Institute of Electrical and Electronics Engineers (IEEE) 2008 - to date
2. Member, Malaysian Remote Sensing Society (MRSS) 2008 - to date
3. Executive Committee Member, IEEE GOLD Affinity Group (IEEE) 2011 - to date
4. Graduate Member, The Institution of Engineers Malaysia (IEM) 2013 - to date
5. Professional Member, Malaysian Society of Agricultural Engineers (MSAE) 2014 – to date

Appointments

Position	Duration
1. Academic Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2007-2014
2. Committee Member, Expert Group E-content, Universiti Putra Malaysia.	2010-2012
3. Auditor, Full Accreditation Program, Universiti Putra Malaysia	2011-2013
4. Head, Laboratory of Spatial Information Systems, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2007-to date
5. Research Associate, SMART Farming Technology Laboratory, Institute of Advanced Technology, UPM	2007-2010
6. Research Associate, Spatial and Numerical Modeling Laboratory, Institute of Advanced Technology, UPM	2010-2012
7. Research Member, Smart Farming Technology Research Centre, UPM	2012-to date
8. Industrial Training Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2009
9. Seminar Coordinator, Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	2006-2007

Publications

Journals

1. Hanibah, S.S.B., **Khairunniza-Bejo, S.**, Ismail, W.I.W, and Wayayok, A. (2014). Determination of Physical Rice Composition Using Image Processing Technique. *Journal of Food, Agriculture & Environment*, 12(1):205-209. (Cited in Scopus. IF=0.435.)

2. Farid, M., **Khairunniza-Bejo, S.** and Azman, A. (2014). An Approach to Estimate Moisture Content of Paddy Rice via Thermal Imaging. *Journal of Food, Agricultural and Environment*, 12(1):188-191. (Cited in Scopus. IF=0.435.)
3. **Khairunniza-Bejo, S.**, Mustapha, S. and Ismail, W.I.W. (2014). Application of Artificial Neural Network in Predicting Crop Yield: A Review. *Journal of Food Science and Engineering*, 4:1-9.
4. **Khairunniza-Bejo, S.** and Kamaruddin, S. (2014). Non-destructive Chokanan Mango (*Mangifera indica*) Sweetness Determination Using Image Processing Technique. *Australian Journal of Crop Science*, 1-13. (Cited in Scopus. Appear on April 2014.)
5. Farid, M., **Khairunniza-Bejo, S.**, Vesali, F. and Jyuking, Y. (2014). A New Mathematical Drying Model for Paddy Rice via Thermal Imaging. *Journal of Food, Agricultural and Environment*, 12(2):1-7. (Cited in Scopus. IF=0.435. Appear on April 2014.)
6. 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*, 21(1): 343-364. (Cited in Scopus.)
7. M.H., Ezrin, Aimrun, W., Amin, M.S.M. and **Khairunniza-Bejo, S.** (2013). Development of on-the-go Soil Nitrogen Mapping System for Site Specific Management. *Journal-The Institution of Engineers, Malaysia*, 74(1):14-20.
8. **Khairunniza-Bejo, S.** and Jamil, N. (2013). Preliminary Study on Detection of Fungal Infection in Stored Paddy Using Thermal Image. *International Proceedings of Chemical, Biological and Environmental Engineering*, 60(2013):19-23. (Cited in Scopus.)
9. Kassim, M.S.M., Ismail, W.I.W., Ramli, A.R. and **Khairunniza-Bejo, S.** (2012). Oil Palm Fresh Fruit Bunches (FFB) Growth Determination System to Support Harvesting Operation. *Journal of Food, Agriculture & Environment*, Vol.10 (2): 620-625. (Cited in Scopus. IF= 0.52.)
10. Amin, M.R.M., **Khairunniza-Bejo, S.**, Ismail, W.I.W. and Mashoor, S. (2012). Colour Extraction of Agarwood Images for Fuzzy C-Means Classification. *Walailak Journal of Science and Technology*, 9 (4): 445-459. (Cited in Scopus.)
11. Jahari, M., **Khairunniza-Bejo, S.**, Shariff, A.R.M. and Shafri, H.Z.M. (2011). Change Detection Studies in Matang Mangrove Forest Area, Perak. *Pertanika Journal of Science and Technology*, 19(2): 307 – 327. (Cited in Scopus.)
12. **Khairunniza-Bejo, S.** and Shariff, A.R.M. (2011). Historical Analysis of the Land Movement in Landslide Area Using Elastic Image Registration and Conditional Statement Approach. *International Journal of Multimedia and Ubiquitous Engineering*, 6(3): 37-48. (Cited in Scopus.)
13. Sumgap, N.H. and **Khairunniza-Bejo, S.** (2011). Color Spaces for Paddy Soil Moisture Content Determination. *Journal of Tropical Agriculture and Food Science*, 39(1): 103–115.
14. **Khairunniza-Bejo, S.**, Petrou, M. and Ganas, A. (2010). Local Similarity Measure for Landslide Detection and Identification in Comparison with the Image Differencing Method. *International Journal of Remote Sensing*, 31(23): 6033-6045. (Cited in Scopus. IF: 1.089.)
15. **Khairunniza-Bejo, S.** and Petrou, M. (2010). Elastic Image Registration for Landslides Monitoring. *International Journal of Signal Processing, Image Processing and Pattern Recognition*, 3(3): 71-86.
16. Mobarak, B.A., Shattri, M., Shariff, A.R.M., **Bejo, K.S.** and Mhamed, N.K. (2010). Generation of DEMs from Single SAR Image Using Radar Shape from Shading Technique. *International Geoinformatics Research and Development Journal*, 1(1): 59-69.

Conference Proceedings

1. **Khairunniza-Bejo, S.** and Kamarudin, S. (2011). Chokanan Mango Sweetness Determination using HSB Color Space. *In Proceeding of the Third International Conference on Computational Intelligence, Modelling and Simulation*, 6076359: 216-221. (Cited in Scopus).
2. **Khairunniza-Bejo, S.** and Jusoh, S.R. (2009). Integrated Change Detection Method for Landslide Monitoring. *In Proceedings of the International Conference on Signal Acquisition and Processing*, 5163845: 153-157. (Cited in Scopus).

3. Jahari, M., **Khairunniza-Bejo, S.**, Shariff, A.R.M., Shafri, H.Z.M. and Ibrahim, H. (2008). Change Detection using Local Similarity Measure. In *Proceedings of the Conference on Innovative Technologies in Intelligent Systems and Industrial Applications*, 4607332: 39-43. (Cited in Scopus).
4. **Khairunniza-Bejo, S.**, Ibrahim, H. and Shariff, A.R.M. (2008). Performance of Point Similarity Measure in Multitemporal Satellite Images. In *Proceeding on The Eight IASTED International Conference on Visualization, Imaging and Image Processing, VIIP 2008*, p. 187-191. (Cited in Scopus).
5. Teoh, K.K., Ibrahim, H. and **Khairunniza-Bejo, S.** (2008). Investigation on Several Basic Interpolation Methods for the Use in Remote Sensing Application. In *Proceedings of the Conference on Innovative Technologies in Intelligent Systems and Industrial Applications*, 4607336: 60-65. (Cited in Scopus).
6. **Khairunniza-Bejo, S.**, Petrou, M. and Ganas, A. (2007). Landslide Detection Using a Local Similarity Measure. In *Proceedings of the 7th Nordic Signal Processing Symposium, NORDIC 2006*, 4052257: 6-9. (Cited in Scopus).
7. **Khairunniza-Bejo, S.**, Petrou, M. and Kovalev, V. (2004). Elastic Image Registration for Landslide Deformation Detections. In *Proceedings of the 11th SPIE International Symposium in Remote Sensing – The International Society for Optical Engineering*, 5573(36): 344-355. (Cited in Scopus).
8. **Khairunniza-Bejo, S.** and Hairi, N.L.S.H. (2013). Mengenalpasti Kandungan Kelembapan Padi di Bawah Permukaan Objek Menggunakan Teknologi Pengimejan. *Persidangan Padi Kebangsaan 2013*, 10-12 December 2013, Seberang Jaya, Pulau Pinang, Malaysia, p. 295-299.
9. **Khairunniza-Bejo, S.** and Sudin, N.M. (2012). Image Analysis for Immature Paddy Detection. In *Proceedings of the International Conference on Agricultural and Food Engineering for Life*, 26-28 November 2012, Palm Garden Hotel, Putrajaya, Malaysia, p.799-806.
10. Sumgap, N.H. and **Khairunniza-Bejo, S.** (2012). Relationship Between Paddy Soil Moisture and Image Texture. In *Proceedings of the International Conference on Agricultural and Food Engineering for Life*, 26-28 November 2012, Palm Garden Hotel, Putrajaya, Malaysia, p.777-782.
11. Mustaffha, S., **Khairunniza-Bejo, S.** and Ismail, W.I.W. (2012). Artificial Neural Network in Predicting Rice Yield. In *Proceedings of the International Conference on Agricultural and Food Engineering for Life*, 26-28 November 2012, Palm Garden Hotel, Putrajaya, Malaysia, p. 232-234.
12. Siti Shariffah Bibi Hanibah, S.B.H., **Khairunniza-Bejo, S.**, Ismail, W.I.W, and Wayayok, A. (2012). Feature Extraction of Rice Images for Head and Broken Rice Detection using Image Processing Technique. In *Proceedings of the International Conference on Agricultural and Food Engineering for Life*, 26-28 November 2012, Palm Garden Hotel, Putrajaya, Malaysia, p.151-156.
13. Ishak, W.I.W., Taip, F.S., **Khairunniza-Bejo, S.** and Kamal, S.M.M. (2012). Development of Browning During Cake Baking. In *Proceedings of the International Conference on Agricultural and Food Engineering for Life*, 26-28 November 2012, Palm Garden Hotel, Putrajaya, Malaysia, p.807-813.
14. Jahari, M., **Khairunniza-Bejo, S.**, Shariff, A.R.M. and Shafri, H.Z.M. (2010). Performance of Local Mutual Information in Different Band of SPOT 5 Satellite Images to Detect Changes in Forest Areas. In *Proceedings of MRSS 6th International Remote Sensing and GIS Conference and Exhibition*, 28-29 April 2010, PWTC, Kuala Lumpur, Malaysia, p. 48.
15. Amin, M.R.M., **Khairunniza-Bejo, S.**, Ismail, W.I.W., Mashoor, S. (2010). Colorspace Selection for Agarwood Image Classification Using FCM Approach. In *IEEE Gold Affinity Colloquium*, 5 May 2010, UPM, Selangor, Malaysia, p. 1-2.
16. Sumgap, N.H., **Khairunniza-Bejo, S.** (2010). Color Usage for Depth of Soil Determination. In *IEEE Gold Affinity Colloquium*, 5 May 2010, UPM, Selangor, Malaysia, p. 3-4.

17. **Khairunniza-Bejo, S.** And Ahmad, D. (2010). Training Managerial Level Personnel by Outcome-Based Education Approach. *In Proceedings of the 4th National Seminar on Oil Palm Mechanization*, 22-23 November 2010, Crowne Plaza Mutiara, Kuala Lumpur, Malaysia, p.171-177.
18. **Khairunniza-Bejo, S.**, Amin, M.R.M., Ismail, W.I.W. and Mashoor, S. (2010). Colorspace Selection for Agarwood Image Segmentation Using Unsupervised Fuzzy C-Means Classification. *In Proceedings of the Seminar Kebangsaan Aplikasi Sains & Matematik 2010*, 8-10 December 2010, The Zone Regency Hotel Johor Baharu, Malaysia, p. 283-289.
19. Mobarak, B.A., Mansor, S., Shariff, A.R.M. and **Bejo, K.S.** (2010). Calibration Model for Radar Shape From Shading Measurements. *In Proceedings of the MRSS 6th International Remote Sensing and GIS Conference and Exhibition*, 28-29 April 2010, PWTC, Kuala Lumpur, Malaysia, p. 79.
20. Norasma, C.Y.N., Shariff, A.R.M., Jahanshiri, E., Soom, M.A.M., Mahmud, A.R. and **Khairunniza-Bejo, S.** (2010). Web Geoprocessing Tool for Oryza Sativa Plantations in Malaysia. *In Proceedings of the MRSS 6th International Remote Sensing and GIS Conference and Exhibition*, 28-29 April 2010, PWTC, Kuala Lumpur, Malaysia, p. 82.
21. Sumgap, N.H. and **Khairunniza-Bejo, S.** (2010). Paddy Soil Moisture Content Interpretation Using CIELuv Image. *In Proceedings of the National Rice Conference 2010*, 28-30 Jun 2010, Swiss Garden Golf Resort & Spa Damai Laut, Lumut, Perak, Malaysia, p. 549-555.
22. **Khairunniza-Bejo, S.**, Ahmad, D. and Jahari, M. (2009). Benchmarking of Bachelor of Agricultural and Biosystems Engineering Programme in Malaysia. *International Conference on Engineering and Education in the 21st Century (ICEE 2009)*, 23-25 March 2009, Majestic Riverside, Kuching, Malaysia, p.1- 5.
23. **Khairunniza-Bejo, S.** and Hip, S. (2009). Image Processing for Automatic Grading of Mango. *International Advanced Technology Congress 2009 (ATCi 2009)*, 3-5 November 2009, Kuala Lumpur, Malaysia, p. 119.
24. Kassim, M.S.M., Ismail, W.I.W., Ramli, A.R. and **Khairunniza-Bejo, S.** (2009). Multispectral Imaging to Determine Oil Palm FFB Maturity Stages: A Review. *International Advanced Technology Congress 2009 (ATCi 2009)*, 3-5 November 2009, Kuala Lumpur, Malaysia, p. 1.
25. Norasma, C.Y.N., Shariff, A.R.M., Soom, M.A.M., **Khairunniza-Bejo, S.**, Jahanshiri, E., Azhan, F. and Mahmud, A.R. Web Precision Farmer (V2.5): Comparison between Windows and Linux. *International Advanced Technology Congress 2009 (ATCi 2009)*, 3-5 November 2009, Kuala Lumpur, Malaysia, p. 121.
26. Norasma, C.Y.N., Shariff, A.R.M., Soom, M.A.M., **Khairunniza-Bejo, S.**, Mahmud, A.R., Aziz, A.A.A. and Jahanshiri, E. (2009). Generating Online GIS Decision Support System for Paddy Precision Farming. *In Proceedings of the GSDI 11World Conference*, 15-19 June 2009, Rotterdam, The Netherlands, p. 1-12.
27. **Khairunniza-Bejo, S.**, Amin, M.S.M. and Aimrun, W. (2008). Statistical Analysis of Soil Image Texture for Soil Moisture Content Prediction. *In Proceedings of the Consultative Workshop on Paddy Precision Farming*, 13-14 August 2008, p3.3:57-58.
28. Norasma, C.Y.N., Shariff, A.R.M., Amin, M.S.M., **Khairunniza-Bejo, S.** and Mahmud, A.R. (2008). Web-Based GIS Decision Support System for Paddy Precision Farming. *In Proceedings of the Consultative Workshop on Paddy Precision Farming*, 13-14 August 2008, p3.1: 53-54.
29. **Khairunniza-Bejo, S.**, Jahari, M., Jamaludin, H. and Osman, F. (2007). Image Analysis for Agarwood Chips Grading. *The World Engineering Congress 2007*, 5-9 August 2007, Penang, Malaysia, p. 129-134.
30. **Khairunniza-Bejo, S.**, Petrou, M. And Ganas, A. (2007). Local Similarity Measure for Landslide Detection and Identification. *Pameran Rekacipta dan Penyelidikan*, 27 – 29 November 2007, UPM, Selangor, Malaysia, p. 327.

Press Release and Professional Magazine

1. **Khairunniza-Bejo, S.** (2012). Mangrove Forest Mapping. Synthesis, Issue 37: p. 20
2. **Khairunniza-Bejo, S.,** Jahari, M., Shariff, A.R.M. and Shafri, H.Z.M. (2011). Mapping Mangrove Biomass. *Press Release, PRWeb UK*, 27 Nov. 2011.
3. Norasma, C.Y.N., Shariff, A.R.M., Amin, M.S.M., **Khairunniza-Bejo, S.** and Mahmud, A.R. (2009). Web-Based GIS Decision Support System for Paddy Precision Farming. *GIS Development*, p. 1-7.

Intellectual Properties

No	Year	Title
Copyright		
1.	2010	Khairunniza-Bejo, S., Jahari, M., Shariff, A.R.M. and Shafri H.Z.M. Local Mutual Information for Forest Monitoring version 1.0 (LMI v1.0).
2.	2010	Khairunniza-Bejo, S., Amin, M.R.M., Ismail, W.I.W. and Syamsiah Mashoor, S. Agarwood Grading Inspection System (AGIS v1.0).
3.	2010	Khairunniza-Bejo, S., Jahari, M., Shariff, A.R.M. and Shafri, H.Z.M. Local Mutual Information for Forest Monitoring version 2.0 (LMI v2.0).
4.	2010	Hair-Bejo, M., Khairunniza-Bejo, S., Ideris, A., Omar, A.R., Napis, S., Khairani-Bejo, S., Sarpin, S., Malik, M.J. and Jaafar, R. Online MyECA Database System (MyECA v1.0).

Patent

1.	2012	Shariff, A.R.M., Zolfagharnassab, S. and Khairunniza-Bejo, S. A Method for Producing a Soil Nutrient Map with Reduced Number of Soil Sample (PI2012000684: Patent Pending).
2.	2010	Shariff, A.R.M.S., Mahmud, A.R., Norasma, C.Y.N., Jahanshiri, E., Soom, M.A.M., Khairunniza-Bejo, S. and Aziz, F.A.A. Web Based Agricultural Data Management System and Methods of Managing Thereof (PI2010700091: Patent Pending).

Research Grants (Main Researcher)

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Detection of the Basal Stem Rot (BSR) using Imaging Technology and Soil Sensor	RM165,200.00	2014-2015	Geran Putra IPB (Sub-Project)
2.	Mangrove Biomass Modelling and Mapping Using Satellite Remote Sensing and GIS	RM15,000.00	2014-2015	Geran Putra IPS
3.	Quality Control of Paddy Rice Using Thermal Image Processing	RM253,156.00	2012-2014	EScience Fund, MOSTI
4.	Elastic Image Registration for Land Movement Monitoring for Landslides Detection and Prediction	RM185,000.00	2006 - 2009	EScience Fund, MOSTI
5.	Local Similarity Measure for Forest Monitoring	RM80,000.00	2006 - 2009	FRGS, MOHE
6.	Rice Yield Prediction Model for Variable Rate Management using Neural Network	RM193,000.00	2009 - 2012	RUGS, UPM

Awards/Recognition(Current)

No	Name of awards	Title	Award Authority	Award Type	Year
1.	Gold Medal	Mangrove Forest Mapping	International Trade Fair "Ideas-Invention-New Products" (iENA), Germany	International	2012
2.	Silver Medal	Online GIS Decision Support System for Paddy Precision Farming	International Trade Fair "Ideas-Invention-New Products" (iENA)	International	2009
3.	Gold Medal	Mangrove Forest Mapping	Malaysia Technology Expo	National	2012
4.	Best Poster Award	Paddy Soil Moisture Content Interpretation Using CIELuv Image	National Rice Conference, MARDI	National	2010
5.	Gold Medal	Development of Mangrove Forest Monitoring Technique Using Local Similarity Measure	Pameran Reka Cipta, Penyelidikan dan Inovasi, UPM	University	2011
6.	Gold Medal	Web-Based GIS Paddy Precision Farming for Design Support System	Pameran Reka Cipta, Penyelidikan dan Inovasi, UPM	University	2008
7.	Bronze Medal	Pameran Reka Cipta, Penyelidikan dan Inovasi, UPM	Local Similarity Measure for Landslides Detection and Identification	University	2007
8.	Best Final Year Project	Preliminary Study on the Use of Thermal Image for Paddy Moisture Content Determination	Department of Biological and Agricultural Engineering, Faculty of Engineering, UPM	Department	2013
9.	Excellent Service Award	Excellence Achievement	UPM	University	2012
10.	Excellent Service Award	Excellence Achievement	UPM	University	2008

Student Supervision

PhD (Main Supervisor)

No.	Name	Title	Status
1.	Maryam KhosrokhaniKangavar	Dynamic Mathematical Modelling for Paddy Drying Process Using Image Processing Techniques	Ongoing

PhD (Co-Supervisor)

No.	Name	Title	Status
1.	Muhamad Saufi Mohd Kassim (Matric number)	Agriculture Robot for Oil Palm Plantation Management	Graduated
2.	Asa Gholi Zadeh	Spectrophotometer and ECa in Soil Properties	Graduated
3.	Babiki Ahmed Mobarak Ahmed	The Use of Radar Scanners Technology in the Preparation of Topographic Maps	Graduated
4.	Mohammadmehdi Saberion	Quantification of Nitrogen Status in Three Main Stages of Growth in Rice by Artificial Neural Network and Remotely Sensed Data	Ongoing
5.	Tham Chan Seng	Livestock Counting and Monitoring Based on Realtime Video Camera	Ongoing
6.	Sharence a/I Nai Sowat	Intelligent Machine Vision System to Diagnose the Fertilizer Application Rate Per Oil Palm Tree	Ongoing
7.	Aliyu Muazu	Modeling for Energy and Cost Optimization in Wet-Paddy Production in Malaysia	Ongoing

MS with thesis (Main Supervisor)

No.	Name	Title	Status
1.	Mahirah Jahari	Local Similarity Measure for Forest Monitoring.	Graduated
2.	Salwa Hashim	Mangrove Biomass Determination using Optical and Radar Images.	Ongoing
3.	Yusnida Mohd Yusoff	Image Processing for Disease Detection and Identification.	Ongoing
4.	Zareen Zulkifli	Image Processing for Weed Detection in Paddy Field.	Ongoing
5.	Norazlida Jamil	Thermal Imaging for Fungus Detection.	Ongoing
6.	Nor Hafizah Sumgap	Image Processing Approach for Soil Physical Properties Determination.	Ongoing
7.	Siti Sariffah Bibi Hanibah	Rice Grading and Quality Control with the Aid of Image Processing.	Ongoing
8.	Mohd Razi Mat Amin	Agarwood Chips Grading using Image Processing Approach and Fuzzy Logic.	Ongoing
9.	Norsolehah Azman	Paddy Quality Determination Using Image Processing Technique.	Ongoing

MS with thesis (Co-Supervisor)

No.	Name	Title	Status
1.	Shahrzad Zolfagharnassab	Neural Network Approach for GIS-Based Soil Sampling.	Graduated
2.	Nader Kavandi	Development of a PDA Based Solution to Determine Paddy Field Harvester Losses.	Graduated
3.	Nik Norasma Che' Ya	Web Based GIS Precision Farming for Decision Support System.	Graduated

No.	Name	Title	Status
4.	Samihah Mustaffa	Rice Yield Prediction Using Neural Network.	Ongoing
5.	Mohd Hamim Abdul Aziz	Image Processing for Oil Palm Growth Stages Recognition.	Ongoing
6.	Azreensyah Aman	Design and Development of Wireless System for Soil Organic Matter Measurement Using Digital Camera.	Ongoing
7.	Wan Illia Wan Ishak	Quality Control of Cake Baking using Fuzzy Logic.	Ongoing
8.	Mohd Amiruddin Ramli	Analysis of Non-Spatial Data and Cadastral in the Perspective of Join and Relate Functionalities using GIS and Remote Sensing Approach for Granary Area.	Ongoing
9.	Ramadhatul Akmal Mohamad	Stimulation and Control of Cake Baking Using Convection Oven By Fuzzy Logic.	Ongoing

MS without Thesis (Co-Supervisor)

No.	Name	Title	Status
1.	Nurul Raudhah Yahya	Land Use Change Detection in Mangrove Forest Area using Remote Sensing Technique.	Graduated