

LIST OF PUBLICATIONS

PEER-REVIEWED JOURNAL PUBLICATIONS:

1. Ahmad, T., **Mahmood, H.S.**, Ali, Z., Khan, M.A. and Zia, S. 2017. Design and development of a portable sisal decorticator. Accepted for publication in “Pakistan Journal of Agricultural Research”.
2. Ahmad, T., Ali, Z. and **Mahmood, H.S.** 2017. Factors causing low head rice recovery in combine-harvested paddy. Accepted for publication in Science, Technology and Development Journal.
3. **Mahmood, H.S.**, Ahmad, T., Ali, Z. and Mirani, A.A. 2016. Performance evaluation of different fodder cutters. ARPN Journal of Engineering and Applies Sciences, 11(24): 14552-14559.
4. Ahmad, T., **Mahmood, H.S.** and Ali, Z. 2016. Effect of paddy harvesting methods on rice quality and head rice recovery. ARPN Journal of Engineering and Applies Sciences, 11(24): 14519-14523.
5. **Mahmood, H.S.**, Ahmad, T., Ali, Z., Ahmad, M. and Amjad, N. 2016. Field evaluation of a wheat straw chopper. Pakistan Journal of Agricultural Sciences, 29(3): 301-314.
6. Ahmad, M., Mirani, A.A., **Mahmood, H.S.**, Ahmad, T. and Saeed, M.A. 2014. Performance evaluation of cross-flow rice dryers. Pakistan Journal of Agricultural Research, 27(4): 277-286.
7. **Mahmood, H.S.**, Hoogmoed, W.B. and van Henten, E.J. 2013. Proximal gamma-ray spectroscopy to predict soil properties using windows and full-spectrum analysis methods. Sensors, 13(12): 16263-16280.
8. **Mahmood, H.S.**, Ahmad, M., Ahmad, T., Saeed, M.A. and Iqbal, M. 2013. Potentials and prospects of precision agriculture in Pakistan - A review. Pakistan Journal of Agricultural Research, 26(2): 151-167.
9. **Mahmood, H.S.**, Bartholomeus, H.M., Hoogmoed, W.B. and van Henten, E.J. 2013. Evaluation and implementation of vis-NIR spectroscopy models to determine workability. Soil and Tillage Research, 134: 172-179.
10. **Mahmood, H.S.**, Hoogmoed, W.B. and van Henten, E.J. 2012. Sensor data fusion to predict multiple soil properties. Precision Agriculture, 13(6): 628-645.
11. Kuang, B., **Mahmood, H.S.**, Quraishi, Z., Hoogmoed, W.B., Mouazen, A.M. and van Henten, E.J. 2012. Sensing soil properties in the laboratory, in situ, and on-line: A review. Advances in Agronomy, 114: 155-223.
12. Iqbal, M., **Mahmood, H.S.** and Younis, M. 2005. Development of a drop-pipe type university boom sprayer. Journal of Engineering and Applied Sciences, 24(2): 63-70.
13. **Mahmood, H.S.**, Iqbal, M., Hussain, K.A. and Hamid, T. 2004. Improved surface coverage with environmentally effective university boom sprayer. Pakistan Journal of Agricultural Sciences, 41(3-4): 152-157.
14. **Mahmood, H.S.**, Iqbal, M., Hamid, T. and Hussain, K.A. 2004. Efficacy of environmentally effective university boom sprayer for bollworm mortality. Pakistan Journal of Agricultural Sciences, 41(1-2): 86-90.

PEER-REVIEWED CONFERENCE PAPERS:

1. **Mahmood, H.S.** and Ahmad, T. 2016. Precision seeding for vegetables and other crops. In: M.J.M. Cheema (Editor), Proceedings of “International Conference on Sustainable Agriculture in Pakistan”, Jointly organised by US-Pakistan Center for Advanced Studies in Agriculture and Food Security, University of Agriculture and University of California, Davis (USA). November 17-19, 2016, University of Agriculture, Faisalabad, Pakistan, pp.125. ISBN: 978-969-9035-13-5.

2. **Mahmood, H.S.**, Ahmad, T., Ali, Z. and Ahmad, M. 2016. Adoption of precision farming technologies in Pakistan. In: Proceedings of the Second Stakeholder Meeting on “Current Status and Future Prospects of Adopting Precision Agriculture in Pakistan’s Farm Settings”. University of Agriculture, Faisalabad, Pakistan, April 16, 2016.
3. **Mahmood, H.S.**, Hoogmoed, W.B. and van Henten, E.J. 2011. Estimating soil properties with a proximal gamma-ray spectrometer using windows and full-spectrum analysis methods. In: V.I. Adamchuk and R.A. Viscarra Rossel (Editors), Proceedings of the Second Global Workshop on Proximal Soil Sensing. McGill University Press, Montreal, Quebec, Canada, pp. 132-135.
4. **Mahmood, H.S.**, Hoogmoed, W.B. and van Henten, E.J. 2009. Combined sensor system for mapping soil properties. In: E.J. van Henten, D. Goense and J.F.M. Huijsmans (Editors), Precision agriculture 2009: Proceedings of the 7th European conference on precision agriculture. Wageningen Academic Publishers, Wageningen, The Netherlands, pp. 423-430.

PUBLISHED PHD THESIS

Mahmood, H.S. 2013. Proximal soil sensors and data fusion for precision agriculture. Published PhD Thesis, Wageningen University, Wageningen, 205 pp. ISBN: 978-94-6173-579-9.