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# APPENDIX **A**

## PUBLICATIONS EMANATING FROM THIS THESIS AND RELATED WORK

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### **A.1 PAPERS THAT APPEARED IN THOMSON INSTITUTE FOR SCIENTIFIC INFORMATION JOURNALS**

- Salmon B.P., Olivier J.C., Wessels K.J., Kleynhans W., van den Bergh F., Steenkamp K.C. "*The use of a Multilayer Perceptron for detecting new human settlements from a time series of MODIS images*", International Journal of Applied Earth Observations and Geoinformation, vol. 13, no. 6, December 2011, pp 873–883
- Salmon B.P., Olivier J.C., Wessels K.J., Kleynhans W., van den Bergh F., Steenkamp K.C. "*Unsupervised land cover change detection: Meaningful Sequential Time Series Analysis*", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, vol. 4, no. 2, June 2011, pp 327–335
- Kleynhans W., Olivier J.C., Wessels K.J., Salmon B.P., van den Bergh F., Steenkamp K.C. "*Improving land cover class separation using an extended Kalman filter on MODIS NDVI time-series data*", IEEE Geoscience and Remote Sensing Letters, vol. 7, no. 2, April 2010, pp 381–385
- Kleynhans W., Olivier J.C., Wessels K.J., Salmon B.P., van den Bergh F., Steenkamp K.C. "*Detecting Land Cover Change Using an Extended Kalman Filter on MODIS NDVI Time Series Data*", IEEE Geoscience and Remote Sensing Letters, vol. 8, no. 3, 2011, pp 507–511
- Kleynhans W., Salmon B.P., Olivier J.C., van den Bergh F., Wessels K.J., T.L. Grobler and Steenkamp K.C. "*Land Cover Change Detection Using Autocorrelation Analysis on MODIS*"

*Time-Series Data: Detection of new human settlements in the Gauteng province of South Africa*", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, In press

- Ackermann E.R., Grobler T.L., Kleynhans W., Olivier J.C., Salmon B.P., and van Zyl A.J. *"Cavalieri Integration: a Novel Integration Technique"*, Quaestiones Mathematicae, In press
- Grobler T.L., Ackermann E.R., van Zyl A.J., Olivier J.C., Kleynhans W., and Salmon B.P. *"Synthesizing Multispectral MODIS Surface Spectral Reflectance Time Series Data"*, IEEE Geoscience and Remote Sensing Letters, In Press
- Grobler T.L., Ackermann E.R., van Zyl A.J., Olivier J.C., Kleynhans W., and Salmon B.P. *"Using Pages Cumulative Sum Test on MODIS time series to detect land cover changes"*, IEEE Geoscience and Remote Sensing Letters, In Press

## **A.2 PAPERS PUBLISHED IN REFEREED ACCREDITED CONFERENCE PROCEEDINGS**

- Salmon B.P., Kleynhans W., van den Bergh F., Olivier J.C., Marais, W.J., Grobler T.L., Wessels K.J., *"A search algorithm to meta-optimize the parameters for an extended Kalman filter to improve classification on hyper-temporal images"*, Accepted for publication, IEEE Geoscience and Remote Sensing Symposium 2012, Munich, Germany, 22 July - 27 July 2012
- Salmon B.P., Kleynhans W., van den Bergh F., Olivier J.C., Wessels K.J., *"Detecting land cover change by evaluating the internal covariance matrix of the extended Kalman filter"*, Accepted for publication, IEEE Geoscience and Remote Sensing Symposium 2012, Munich, Germany, 22 July - 27 July 2012
- Grobler T.L., Ackermann E.R., van Zyl A.J., Kleynhans W., Salmon B.P., Olivier J.C. *"Sequential classification of MODIS time series"*, Accepted for publication, IEEE Geoscience and Remote Sensing Symposium 2012, Munich, Germany, 22 July - 27 July 2012
- Kleynhans W., Salmon B.P., Olivier J.C., van den Bergh F., Wessels K.J., Grobler T.L. *"Detecting land cover change using a sliding window temporal autocorrelation approach"*, Accepted for publication, IEEE Geoscience and Remote Sensing Symposium 2012, Munich, Germany, 22 July - 27 July 2012
- Kleynhans W., Salmon B.P., Olivier J.C., Wessels K.J., van den Bergh F., *"A comparison of feature extraction methods within a spatio-temporal land cover change detection framework"*,

IEEE Geoscience and Remote Sensing Symposium 2011, Vancouver, Canada, 25 July - 29 July 2011

- Salmon B.P., Olivier J.C., Kleynhans W., Wessels K.J., van den Bergh F., "Automated land cover change detection: The quest for meaningful high temporal time series extraction", IEEE Geoscience and Remote Sensing Symposium 2010, Honolulu, Hawaii, United States, 25 July - 30 July 2010
- Kleynhans W., Olivier J.C., Salmon B.P., Wessels K.J., van den Bergh F., "A spatio-temporal approach to detecting land cover change using an extended Kalman filter on MODIS time series data", IEEE Geoscience and Remote Sensing Symposium 2010, Honolulu, Hawaii, United States, 25 July - 30 July 2010

### **A.3 INVITED CONFERENCE PAPERS IN REFEREED ACCREDITED CONFERENCE PROCEEDINGS**

- Salmon B.P., Olivier J.C., Kleynhans W., Wessels K.J., van den Bergh F., "The quest for automated land cover change detection using satellite time series data meaningful high temporal time series extraction", IEEE Geoscience and Remote Sensing Symposium 2009, Cape Town, South Africa, 12 July - 17 July 2009
- Kleynhans W., Olivier J.C., Salmon B.P., Wessels K.J., van den Bergh F., "Improving NDVI time series class separation using an extended Kalman filter temporal time series extraction", IEEE Geoscience and Remote Sensing Symposium 2009, Cape Town, South Africa, 12 July - 17 July 2009
- Kleynhans W., Salmon B.P., Olivier J.C., Wessels K.J., van den Bergh F., "An autocorrelation analysis approach to detecting land cover change using hyper-temporal time-series data", Joint invite for publication, IEEE Geoscience and Remote Sensing Symposium 2011, Vancouver, Canada, 25 July - 29 July 2011

### **A.4 PAPERS SUBMITTED TO REFEREED ACCREDITED CONFERENCE PROCEEDINGS**

- Kleynhans W., Salmon B.P. "Monitoring informal settlements using SAR polarimetry", Submitted for review, African Association of Remote Sensing of the Environment (AARSE) 2012



## A.5 BEST PAPER AWARD

- Salmon B.P., Kleynhans W., van den Bergh F., Olivier J.C., Marais, W.J., Wessels K.J., "Meta-optimization of the extended Kalman filter's parameters for improved feature extraction on hyper-temporal images", IEEE Geoscience and Remote Sensing Symposium 2011, Vancouver, Canada, 25 July - 29 July 2011

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