# CoE-MaSS weekly seminar series

**THE DST-NRF CENTRE OF EXCELLENCE IN MATHEMATICAL AND STATISTICAL SCIENCES (CoE-MaSS) PRESENTS A SEMINAR BY**


## Prof Terence Van Zyl & Dr Matthew Woolway

***(School of Computer Science and Applied Mathematics, University of the Witwatersrand, Johannesburg)***


# *"Data-Driven Business Robotic Process Automation Optimisation"*

Friday, 21 June 2019
10h30-11h30
CoE-MaSS Seminar Room, 1st floor, MSB, Wits.


Robotic process automation has seen a recent surge in interest in the academic literature due to increased demand for solutions by industry. One particular area with considerable challenges is presented by data-driven robotic process optimisation. In this seminar, we focus on the intersection of predictive analytics and computational intelligence in tackling the optimisation of robotic automation of industrial processes. The seminar draws on a recent survey on data-driven optimization and our own work in computational intelligence for chemical batch process optimisation and logistics optimisation and preventative maintenance using predictive analytics including classical statistical and modern deep learning approaches. The seminar will introduce the listener to these two fields and demonstrate some of our current and envisioned research. We argue that this is an exciting field with many opportunities for continued research and collaboration.



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