

- **HENG, Aiwina Soong Yin**

*BEng QUT*

**Thesis Title:**

Intelligent Prognostics of Machinery Health Utilising Suspended Condition Monitoring Data

**Supervisors:**

Prof Andy Tan (Principal)

Prof Joseph Mathew (Associate)

**Citation:**

This work addresses the challenges in predicting machinery health. The novel model uses condition monitoring data to train an artificial intelligent agent to produce long-range reliability forecast. Promising results from computer simulations and an industry case study show that this technique, together with ongoing advances in data acquisition and analysis, holds the promise for increased equipment availability, maintenance cost effectiveness and operational safety.