

## Graduation Citations

**TAI YEUNG, K.L., Daisy** *BSc in Q.S., MSc in Project Management NSWU*

**Thesis Title:**

Statistical Model Development to Identify the Best Data Pooling For Early Stage Construction Price Forecasts

**Supervisors:**

Professor Martin Skitmore (Principal)

Dr. H.P.Lo (Associate)

**Citation:**

*This thesis is to develop a statistical model to measure the early cost forecasting accuracy by using different pooling arrangements on historical cost data. To achieve the aim, the collected cost data (construction unit cost) is classified and clustered according to the project nature, project specification and construction floor area. Each pooling group is in-fitted into the model for validation of the viability of the developed model. By using the model, the forecasting performances are measured by means of mean square error (MSQ). From the MSQ values generated, the homogeneity problem of cost data is reviewed and best pooling arrangement for mean value cost forecasting in early construction stage can be identified.*