Diagnostic model for automated packaging machine

Faculty advisor: Prof. Chi-Guhn Lee

A customized packaging machine performs specialized tasks, such as jogging, folding, and sealing to ensure that the contents are neatly aligned and securely sealed for transport and sale. This process is prone to errors, such as jams and misalignments. The objective of this project is to identify the nature of the error and to recommend solutions using anomaly detection and classification. The model can be trained with sensor data collected by various sensors in the complex machine and some are images and video clips. At an advanced level (therefore, optional), the model will have to consider the structural dependency among components.

The successful candidate will have a good background in machine learning and python programming

Contact: Prof. Lee, cglee@mie.utoronto.ca