Titel	Predict paperboard properties using machine learning
Allmänt om	The future grows in the forest
Holmen	
	Holmen is one of the biggest forest owners in Sweden and the growing forest is
	the basis of our business. We are part of the ecocycle from seedling to plank,
	where the raw material is refined into everything from wood for climate-smart
	buildings to renewable packaging, magazines and books. We also produce our
	own renewable energy from hydro and wind power. With a clear focus on
	sustainability in all aspects, Holmen contributes to a brighter future.
	This thesis is part of Holmens digitalization efforts.
Beskrivning	
	Holmen is through their business area Iggesund Paperboard a supplier of some
	of the top performing paperboards on the market. The paperboard is produced
	at the Iggesund mill in mid-sweden and at the Workington mill in the UK. When
	a supplier chooses iggesund Paperboard it is partly due to the boards printing
	bending stiffness. These are properties one would like to predict based on the
	around 500 process signals that are used for control and surveillance of the
	process.
	Within this thesis, you as a student will first identify which of the signals are
	relevant for the prediction as the well as time lags in the signals. You will then
	create a prediction model using a suitable method.
	The goal is to create a robust prediction model that would be possible to
	implement in production in the future. The model shall be able to handle long
	time variations and property variations from the raw material.
	Hopefully this thesis will run parallel to a similar thesis in solid mechanics. We
	hope that you as student will be able to excel from knowledge sharing from
	one to another.
Mål	Thickness and bending stiffness predictor that can be implemented in
	production
Studieinriktning	Signal Processing/Automatic Control/ Process Modeling/Statistics/Machine
	Learning
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