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## An efficient cost estimation framework for aerospace applications using Matlab/Simulink

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### Abstract

The ability to estimate costs and process times at the early stage of a design phase is of great importance to the product development process, enabling selection of the most suitable design and manufacturing concepts. Therefore, herein an efficient framework is developed, utilising appropriate process and feature based cost modelling techniques in a MATLAB/SIMULINK environment. The sophisticated structure of the cost tool, using the drag and drop approach of predefined SIMULINK blocks, enables the rapid cost modelling of complex aerospace assemblies. The capabilities of the developed framework are demonstrated through analysis of a novel air-intake structure for single aisle aircraft.

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