

constants in the above equations.

## **PERFORMANCE ANALYSIS OF A TRACKED** VEHICLE USING MULTI-BODY SIMULATION

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Tracked industrial vehicles are flexible self-propelled working machines that can be found in several industrial fields: construction, agriculture, earthmoving, green maintenance. Compared with other industrial vehicles, they usually have great stability due to their lower centre of gravity that allows for better performance on unstructured fields. They can be equipped with different tools giving them great versatility as working machinery. These tools may change consistently the weight distribution of the vehicle having a strong effect on its

In this work, a Multi-Body (MTB) model of a tracked vehicle is shown. Its main aim is to provide an instrument able to exploit machine's performance in case of different equipped tool and different ground characteristics.

