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## MultiBody Systems Modelling with ROBOTRAN

### KEYWORDS

- Symbolic software
- Numerical modelling
- Multibody systems
- Dynamic systems

### Technology Context

Dynamic performances are become an important factor of the product specification. Multibody dynamics is thus more and more involved in industrial developments. However, this phase is often a difficult step for the industrial partner.

### The UCLouvain collaboration offer

UCLouvain's team may offer its expertise in the field of multibody modeling to propose an "optimal" methodology to answer the industrial problem in the context of a collaborative research.



### The UCLouvain background

ROBOTRAN is a symbolic software to model and analyse MultiBody Systems (MBS). It is a powerful tool to deal with both industrial and research applications, such as: robot manipulators, parallel actuators, human body, car suspensions, railway bogies, transmission mechanisms, machine tools, etc.

ROBOTRAN allows you to design your model in a user-friendly environment and to automatically generate symbolic equations of your systems in the desired programming language. The software also offers a simulation library for analysing your models.

A more complete description can be found here:

[www.robotran.be/](http://www.robotran.be/)

### Technology Status

TRL 9: Software fully operational.



Top : Simulation of a BMW.  
Bottom: HIL vehicle simulator with haptic torque feed-back

 **UCLouvain**



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Please contact :

Palate Matthieu  
Technology Transfer Advisor  
+32 10 47 25 41  
matthieu.palate@uclouvain.be  
www.ltto.com