



Published on *CD-adapco* (<http://www.cd-adapco.com>)

[Home](#) > Numerical Simulation of the air flow around an tractor-trailer configuration with realistic areodynamic conditions and comparison to experimental data from a road test

Numerical Simulation of the air flow around an tractor-trailer configuration with realistic areodynamic conditions and comparison to experimental data from a road test

Publisher:

Henri Karhula

Date:

Thursday, May 30, 2013

Abstract:

With the experimental data from a road test with a full-size tractor-trailer configuration, I am to recreate the experiment within STAR-CCM+ and compare the solution to the given data. For realistic conditions the simulation will include the rotation of the tires, the relative translation of the road and a detailed volume mesh, which all will be implemented directly via STAR_CCM+.

 [BA_HenriKarhula.pdf](#)^[1]

Author Name:

Henri Karhula

Author Company:

RWTH Aachen

DLR Goettingen

Products:

[STAR-CCM+®](#)^[2]

Industries:

[Academic](#)^[3]

[Ground Transportation](#)^[4]

CD-adapco is the world's largest independent CFD focused provider of engineering simulation software, support and services. We have over 30 years of experience in delivering industrial strength engineering simulation.

Source URL: <http://www.cd-adapco.com/node/6126?page=38>

Links:

[1] http://www.cd-adapco.com/sites/default/files/technical_document/pdf/BA_HenriKarhula.pdf

[2] <http://www.cd-adapco.com/products/star-ccm%C2%AE>

[3] <http://www.cd-adapco.com/industries/academic>

[4] <http://www.cd-adapco.com/industries/ground-transportation>