

Signal and image processing

Two new software applications are set to streamline measurement analysis for the crash-test industry

■ Founded in 1996, Orme is influential in helping businesses meet their test analysis needs, especially in signal and image processing.

Based in Labège, near Toulouse, France, the company currently has a team of six people, who are specialists in measurement acquisition and processing, as well as in software development.

Orme is now set to enter the Indian market, with bespoke service assignments ranging from the studies of new algorithm methods to the production of systems and software for signal and image acquisition and processing.

To aid this endeavor, the company has developed two software applications devoted to measurement analysis. The first is TrackImage, which performs automatic image sequence motion analysis. Based on the most recently developed algorithms, TrackImage is a powerful image analysis software tool that is used in many different fields, including automotive, aeronautics, defense, energy, ergonomics, biology, geology, space, sports, and more.

There are several modules available



TrackImage calculates the dynamic parameters of the test: positions, speeds, accelerations, distances, angles, etc

for the package, such as trajectography, deformation tracking, virtual object simulation, airbag deployment analysis, fluids analysis, and rotating machine analysis.

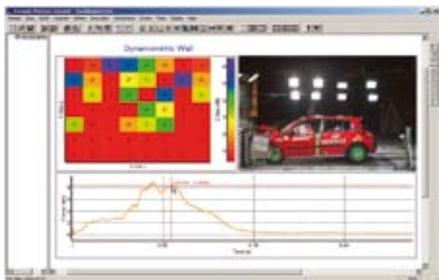
The second application is TrackReport, which performs signal and automatic test report analysis, as well as automated test report generation. The package enables: data import in various file formats or via an ASAM-ODS database; data processing, by way of mathematical functions libraries; a report edition; report print or export, in various (dynamic or static) formats; and data and results archiving.

TrackReport enables users to define templates for data analysis and visualization (known as 'models'), including the calculation sequence applied to input data, and a graphical setup with text areas, graphs, images, image sequences or videos, tables, color maps, etc.

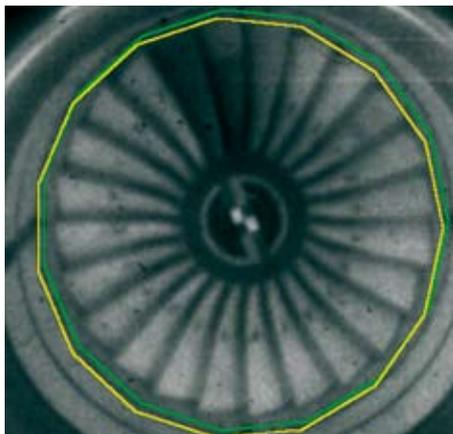
There are also several operational modules available for TrackReport, including crash test analysis biomechanical criteria, acoustic functions, ASAM-ODS database, and 3D visualization.

Moreover, the company provides training for signal and image processing technicians and engineers, as well as training sessions devoted to its TrackImage and TrackReport products.

Orme will be showing off its products at Automotive Testing Expo 2009, held in Stuttgart, Germany (Hall 1, booth C2004), from June 16-18. The company will also be welcoming its customers at the brand-new Automotive Testing Expo India, which will be held at the HITEX Exhibition Centre in Hyderabad (booth 4060), from February 2-4, 2010.



Above: TrackImage can make several types of graphical representation of test result data, simplifying analysis
Right: Rotation center tracking, instantaneous angular speed measurement, and blades and housing deformation tracking carried out in TrackImage



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