

“Automatic Reports for Efficient Crash Test Analyses”

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Abstract:

Today's processes of vehicle design combine a wide variety of different disciplines. That makes it very important that general interfaces are available to compare and to transfer data otherwise no effective workflow would be possible. This situation applies as well to crash development. Full vehicle crash tests or component tests, performed in house or by external partners have to be brought together. Only the combination allows a full picture about the stage of maturation. DaimlerChrysler has developed specialized tools to support this joined crash reviews by standard procedures. But it turned out that the flexibility was often missing since new ideas to improve the crash performance require new evaluation methods. The need existed to allow on one hand a standard evaluation but on the other hand to enable a flexible result handling for detailed analyses e.g. synchronized videos. HyperGraph in combination with an adaptive process specific user interface gave us the ability to achieve both goals. Less experienced or sporadic users are guided through a clear process and add-on tools allow additional information to be taken into account without specific HyperGraph knowledge. For expert users the full capability of the program is available in the background.

Keywords:

- Result Analyses
- Automated Process
- Flexible Reports
- Crash test analyses
- Safety