



**Pierre Vercruysse**  
**Business Development**  
**Haption**

Realtime Simulation for DELMIA

**Bio**

- Pierre Vercruysse was born in Belgium in 1962
- Mathematical and Informatics Graduate Student from ULB (Bruxelles University)
- His professional background was 20 years in the computer graphics world, real-time visualisation and integration.
- Pushing the limit of the simulation for research and industry: visual simulation, and now interactive simulation.
- 3 years at Appollo/H-P, 10 years at Silicon Graphics, 3 years at Barco, 3 years at Haption

**Abstract**

How can a designer or a production planner validate complex operations in early phases of product development?

The Haption software enables users of DELMIA™ to validate their design with real-time collision detection. Thanks to the intuitive use of force-feedback, a realistic validation with immediate results can be carried out. Human mannequins can be animated in the scene in order to accelerate ergonomic analysis. In combination with motion tracking hardware, complex ergonomic posture quotation can be achieved in the early design phases with realistic results. By optimizing the assembly processes and by reducing the strain on workers, the quality of the final product is often improved. We use concrete example to explain the benefit of realtime manipulation in product and process Design.