Realtime technologies

RESEARCH SIMULATION SIMPLIFIED
DRIVING SIMULATION PLATFORM

BUILDING WORLD CLASS DRIVING SIMULATORS FOR YOUR RESEARCH
Realtime Technologies driving simulators are designed to easily integrate into research environments. Realtime’s SimCreator, SimVehicle, are the building blocks for the SimCore driving simulator and provide the user an environment they can easily immerse themselves in. SimForce can be added to the driving simulator to provide control loaded steering, delivering real road feedback into the steering system. Realtime Technologies simulators provide an opportunity for autonomous driving with SimDriver, motion control with OverTilt, and video capture with SimObserver.

- Complete simulation/hardware solutions
- Vehicle dynamics
- Visual systems
- Scenario authoring
- Autonomous testing
**ExACCT Professional**

**Expanded Graphical User Interface**

- ExACCT offering with expanded scenario programming ability
- Conversion of existing SimVista databases and scenarios into ExACCT
- CGI capture of the simulator allowing for replay that is synchronized with the data collected

**Maneuver Designer**

**Programmable Maneuvers**

- GUI generation for maneuvers in ExACCT
- Easy-to-program maneuvers with syntax help
- Light error checking for syntax errors
- WYSIWYG documentation generation

**SimDriver**

**Autonomous Vehicle Control Solution**

- Evaluate human interaction with automated vehicles
- Safe, controlled and observable environment
- Research shared control strategies

**SimCreator**

**Real Time Simulation and Modeling System**

- Core software of the vehicle simulator.
- Easily configure your simulator with a graphical interface.
- Integrate any third party libraries, vehicle dynamics or motion bases.

**SimVehicle**

**High-fidelity, Multibody, Real Time Vehicle Dynamics Model**

- Supports vehicles with 4, 6, and 8 wheels along with tracked vehicles. Models can pull trailers with 2 or 4 axles.
- Extremely accurate real time multibody dynamics.
- Easily integrate any tire model terrain system.
- Reconfigurable using the SimVehicle GUI.

**SimConnect**

**Networked Simulation**

- Multiple simulators, naturalistic-type studies
- Collaboration between 2-10 simulators
REALTIME TECHNOLOGIES SPECIALIZES IN MULTIBODY VEHICLE DYNAMICS, AND GRAPHICAL SIMULATION AND MODELING. WE OFFER SIMULATION SOFTWARE APPLICATIONS, CONSULTING SERVICES, CUSTOM ENGINEERING SOLUTIONS, AND SOFTWARE/HARDWARE DEVELOPMENT.