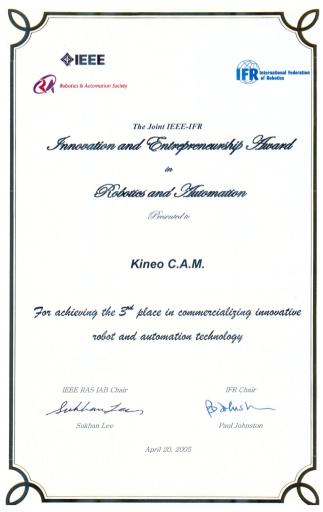


Le génie du mouvement making IT move

-KINEO.

A Technology based company



- Spin-off from L.A.A.S./C.N.R.S.
 National Center for Scientific Research
- 2000, Winner of the national contest of innovation from French Ministry of Research and Technology
- 2005, IEEE International Federation of Robotics award as the 3rd worldwide innovative application of the year
- 2007, winner Innovation ICT Prize from the European Commission and the European Council of Applied Sciences, Technologies & Engineering

KINEO.



Japan Robotic Laboratory







MAGNA STEYR

























driven by your success



Over 100 Global Customers in 25 Countries











IVECO































-KINEO.

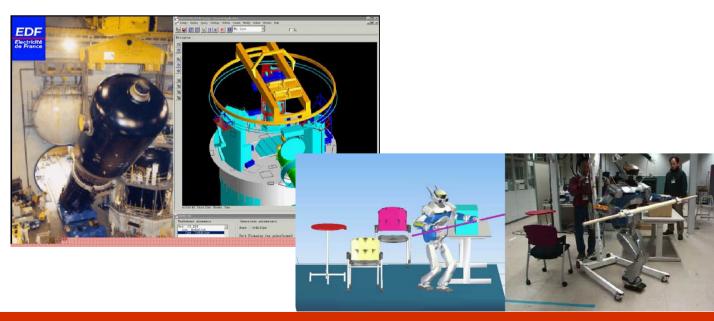
Offer / Expertise

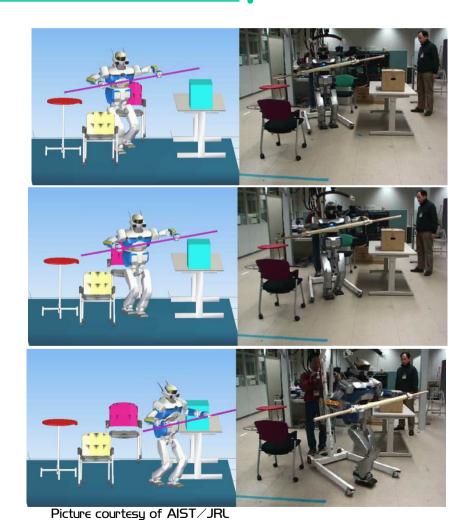
Software tools for:

- Automatic motion and path planning
- Collision detection, avoidance
- Accessibility, Maintainability, Mounting-Dismounting simulations based on Digital Mock-up
- Robot simulations











Kite Lab™ is a software development platform dedicated to **Research Labs** for 3D applications and 3D robotics.

Kite Lab™ allows **Academic** and **Non Profit Organizations** to develop research works through standard Application Programming Interfaces (API). It covers a large range of uses like robot arm, medical robots or highly articulated systems.







Computer Aided Motion



- ✓ Graphical kinematics editor
- ✓ Static and dynamic clash detections
- ✓ Automated collision-free path computation
- ✓ Obstacle penetration control
- ✓ Path optimization
- ✓Zoom, pan, rotate, multi views....
- ✓ 3D simulation and movie generation
- ✓ Post treatment thanks to XML format





Create your open and closed kinematic chains ...

Check, control & avoid collisions...

Develop robotic simulation & control environment...

Share your problems & results as you wish

Using Kite Lab™ means being part of a community of Labs. You are encouraged to ask questions and share results to the Kite Lab Friends' community. To apply:

www.kineocam.com/kitelab

KINEO.

Offer / Expertise



KineoWorks™: Automatic path planning SDK

KCD™: High performance collision checker software library

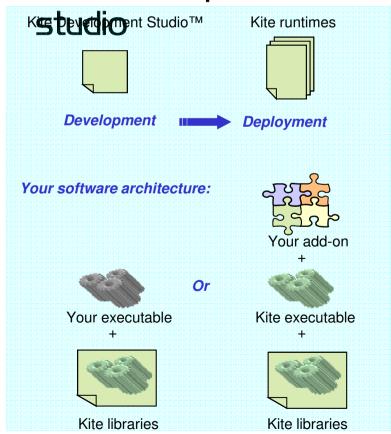
KWS-Wrapping™: computes the external skin of a 3D assembly (static and in motion)

KWS-UAF™: Interactive path planning SDK









KINEO.

Examples of commercial integrations

NX

 Siemens PLM Teamcenter Visualization

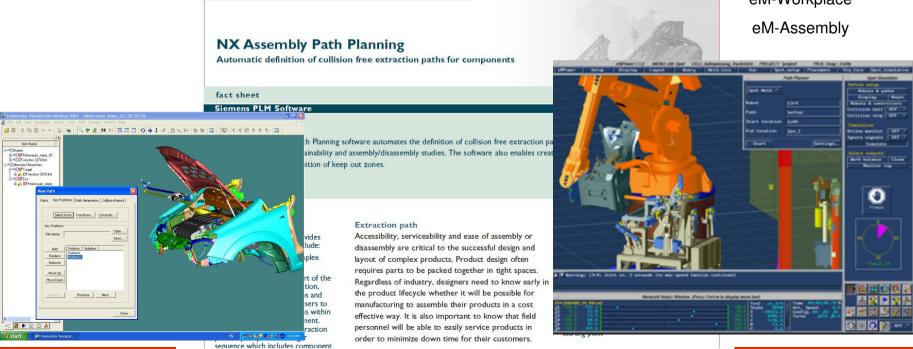
VisMockup Path Planning



 Siemens PLM Teamcenter Visualization
 VisMockup



eM-Power eM-Workplace eM-Assembly



Examples of commercial integrations



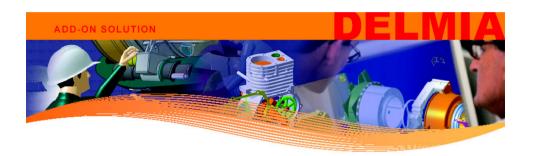


- Catia Enovia DMU Path Planner
- Catia Digital Path Analyzer
- Catia Human Path Planner

- Delmia DPM
 Path Planner
- Robotic Path Planner



3DVIA Composer Path Planning



KINEO DPM Path Planner

A Fast, Reliable and Automatic Collision–Free Path Planning Tool to Facilitate Product Design, Serviceability and Manufacturability

Overview

KINEO DPM Path Planner is an available add-on solution for DELMIA V5 DPM Assembly that provides highly-efficient path planning commands for automatic collision-free path planning. It leverages and contributes to the existing capabilities in DPM Assembly providing advanced dynamic collision checking capabilities for all geometrical and human assembly and disassembly simulations.

KINEO DPM Path Planner facilitates design and manufacturability studies resulting in time savings due to faster computation times and improved quality of the planned path. Even an experienced operator spends several hours solving a regular path planning scenario. Searching and validating a trajectory can also be increasingly time consuming in many engineering industries including automotive, aerospace, shipbuilding, and power plants. KINEO DPM Path Planner's easy-to-use, automatic collision-free motion and path planning tools will save valuable engineering time and ensure the most efficient manufacturing processes.

For example, before trying to simulate how a car seat will be mounted into the car body by an operator or by a robot, it needs to be assessed whether or not the 3D model of the car seat can be geometrically inserted into the 3D model of the car body without colliding and while respecting specific constraints.

Also, forecasting assembly feasibility issues early in the design process will prevent costly design changes and reduce production bottlenecks later in the product lifecycle.

Furthermore, the results from KINEO DPM Path Planner can be reused for further analysis with other DELMIA V5 Solutions.

Benefits

- · Optimize serviceability and manufacturability
- · Reduce costly bottlenecks
- Faster computation times
- · Improve product quality and reliability