

IFC Core and Human are a software add-on for Dassault Systemes Catia™ V5. It enables interactive real-time simulation and digital human capabilities inside a virtual environment, while maintaining all basic functions. The user can simulate assembly simulation with force feedback and human operation: Accessibility testing, Visibility study, Operator training, Ergonomic assessment, Workplace simulation, Collaboration work

#Virtual Reality #Ergonomic #Dassault

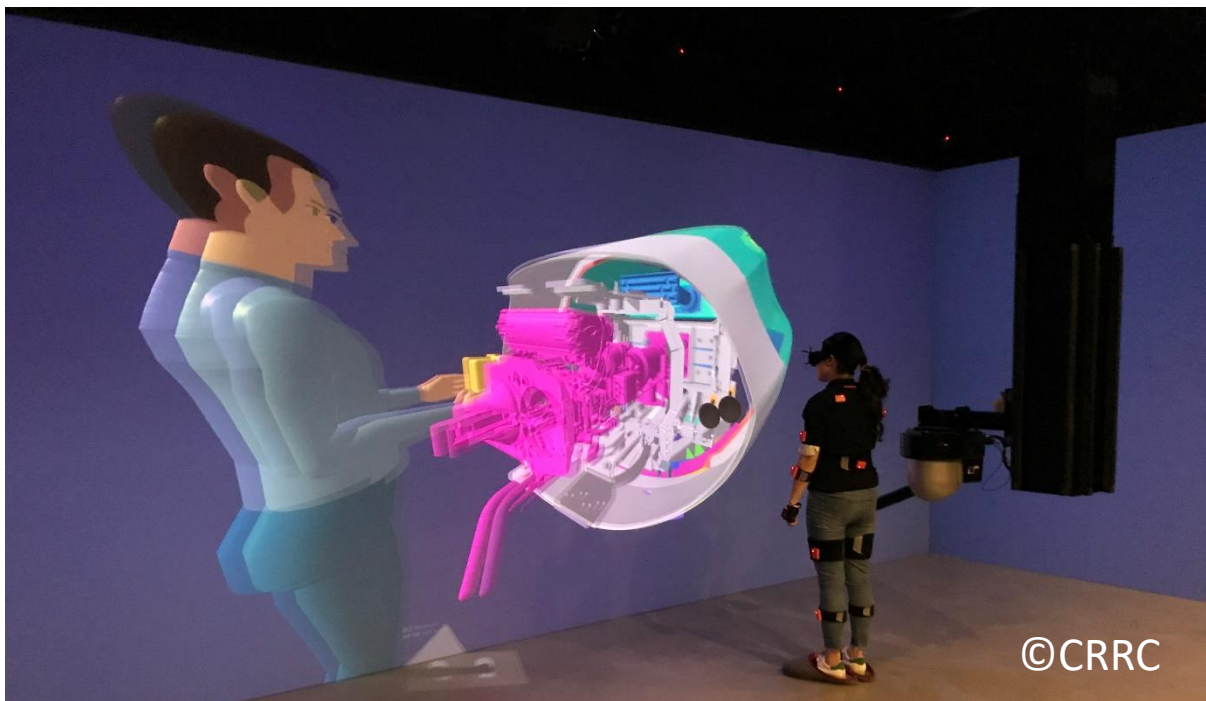
### 3D REAL-TIME INTERACTION AND SIMULATION

- ✓ IFC Core: realtime animation of part with collision detection
  - ✓ Simulation set-up: Easy control start, stop, resume
  - ✓ Realtime Animation of part with physics:
    - ✓ Create physics (selecting tool: working zone)
    - ✓ Animate and visualize clash in realtime
    - ✓ Support for haptic interface
    - ✓ Support weight
    - ✓ Create container
    - ✓ Manage the tolerance
    - ✓ Output record a track
    - ✓ Read Kin description, and animate the kinematic in realtime
- ✓ IFC Human : Realtime Animation of full human with physics:
  - ✓ Scale operator motion, integrate manikin's kinematics
  - ✓ Easy calibration, and attach/detach manikin
  - ✓ View collisions points on contact points
  - ✓ Animate up to 4 manikins
  - ✓ Output: store a human posture
- ✓ Supported devices:
  - ✓ Optical tracking system: ART, Vicon
  - ✓ Inertial system: Xsens
  - ✓ Force feedback: Haption's product Virtuose
  - ✓ Glove: Manus, Cyberglove
  - ✓ 3d mouse: 3Dconnexion
  - ✓ On request input stream



### TECHNICAL SPECIFICATION

PC Configuration	Dassault Systemes supported configuration, with minimum 32 G of RAM, quad-core, and dedicated Ethernet for the realtime input device
Supported Released	V5-6R2019 to V5-6R2023
<b>PREREQUISITE</b>	
Haption	1 license of IPSI Server
Dassault Systèmes	IFC Core: MD2 + FIT, SPA, DM3, KIN IFC Human: IFC Core + HBR



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