

Call for Papers

Thematic Issue on :

« Interact and Exchange in Virtual Work Environment »

Topics

Haptic rendering, virtual assembly, tele-collaboration using VR systems, human representation in virtual world, 3D interaction techniques, multimodality rendering in virtual world environment

Proposal

New requirements are needed by industry for computer aided design (CAD) data. Some techniques of CAD data management and the computer power unit capabilities enable a relatively easy extraction of a virtual mock-up for an interactive use. CAD data may be distributed and shared by different designers in various parts of the world (in the same company and with subcontractors). The use of digital mock-up is not limited to the mechanical design of the product but is dedicated to a maximum number of trades in industry.

Techniques used to enable an interaction between user and digital mock-up are constituted by virtual reality (VR) technologies. These technologies are more and more well integrated in the product design process in industry. Because VR technologies do not excite human senses like in reality and because some other possibilities are offered by virtual world, interaction techniques have been developed. These interaction techniques enable a better perception of interaction by supplying modality or propose new methods to interact with the product and to share ideas on the product. Scientific and technological issues involve the design and experimental implementation of multimodal interaction systems and the human factors consideration in the design of interaction systems to optimize the virtual experience. This thematic issue would explore some scientific questions related to virtual immersion experience using interaction and sharing of digital data.

Online Submission

Manuscripts should conform to the standard format of the International Journal on Interactive Design and Manufacturing as indicated in the official web sites. Electronic submissions must be in Word or Pdf format and should be prepared according to the journal guidelines. The submissions should be performed through the journal automatic system: <https://www.editorialmanager.com/ijdm/>. A copy of all submitted articles are sent by email to the guest editor (see contact information above).

Important Dates

Manuscript submission	30 th June 2009
Notification of Acceptance	20 th October 2009
Final Decision	20 th December 2009

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