

Analysis of distant synchronous collaborative engineering environments : an improvement of communication tools

Introduce

In the process of collaborative work of different teams distributed in geography, there are many difficulties in the communication between them, Consequently, to give facilities for the communication of the designers in distance via internet, we have observed their process of working, especially, when they exchange the information of designers with the other teams.

From the results of analyzing these observations, we propose the tools that make facility for the designers. The name of the tool we are developing is "Whiteboard", and it aims at supporting the exchange of more or less structured sketch and engineering synchronous interactions around this graphical material.

Goals

- Study and analyze the activities in the technical communication of design synchronous collaborative distance
- On the other hand, use our understanding and results of the analysis to provide tools assistance to graphics communication for design synchronous collaborative distance

Research Question

- How to realize the synchronization cognitive between the designers
- How technical communication support collaborative work ?
- How to improve the effectiveness of technical communication in the context of distant collaborative design?

Research Approach

Specific context

Develop an environment of graphic communication to support the effectiveness of design synchronous collaborative distance

Descriptive study I

- Investigation of the impact on the process of collaborative design distance
 - Preparing collaborative design experiences outside the industrial context
 - Observe and analyze the process of collaborative design
 - Interview the designers who participated in the experiments
- Investigation of the tool to support collaborative design

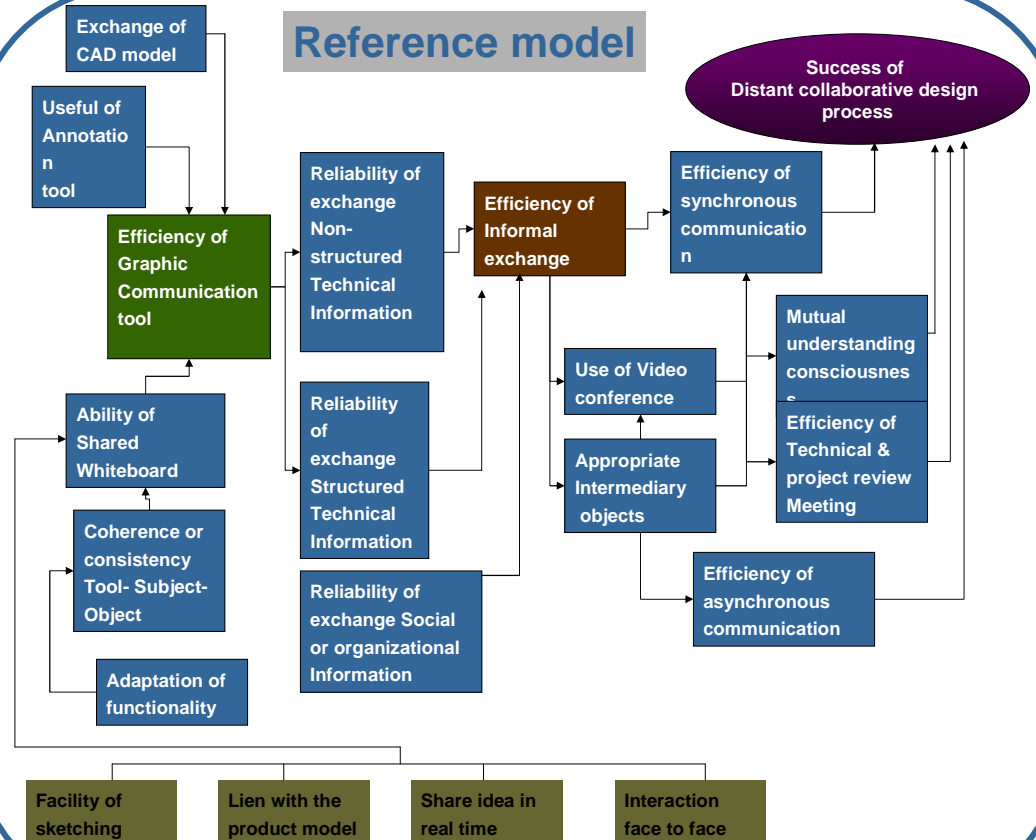
Prescriptive study

Proposed methods and tools to explain and support the graphic communication of design collaborative process

Descriptive study II

Verify methods and tools proposed by the experiences of design synchronous collaborative distance using the new tool

Reference model



Contact

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