

PARTICIPANT FORM for the SUMMER SCHOOL

Constructivism and Enaction

A new paradigm for Cognitive Science

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I. – SITUATION

Status : University teacher Research scientist Thesis student Post-doc Other :

University/ Laboratory : University of Occidental Brittany / European Center for Virtual Reality

Website labo/perso : www.cerv.fr

Special information(s) (article, scientific responsibility, participation to research projects, other...) :

Bossard C., Kermarrec G., Buche C. (to appear). Transfer of Learning in Virtual Environment: a New Challenge? *Virtual Reality* (special issue in education). London : Springer.

R. Bénard, C. Bossard, and P. De Loor. (2006). "Context's modelling for participative simulation." In *19th International Florida Artificial Intelligence Research Society Conference (FLAIRS-06)*. AAAI.

III. – RESEARCH THEME

My main research interest is in cognitive psychology applied to team sport. I study how decision making skills can be learnt thanks to a Virtual Environment for Training (VET). Recent researches in cognitive psychology and education show acquisitions as linked to initial context. This theoretical perspective asks the question of the use of VET. If knowledges and skills are linked to their initial context (virtual simulation), how can they be used in real situation by trainer? What is the interest of building virtual environment in education and training? My research discusses also how new perspectives in cognitive psychology influence and promote conditions that facilitate transfer of learning. It provides a challenge for constructivism and enaction to be useful in this theme.

Our research should include three different steps:

- 1- Modelling team decision making.
- 2- Simulating dynamic and collective situation.
- 3- Testing conditions that facilitate transfer of learning.

Key words: decision making, sport team, transfer of learning, virtual environment for training.

III. – VIDEOS AND EXPERIMENTAL MATERIAL

Moments of relaxation might be the occasion to share and show original scientific video documents (not too long) or experimental material (which could be used by all the participants). A video party and an experimental demonstration session have been planned. Could you indicate video or experimental material you would like to present.

Videos :

Experimental demonstration :