

PARTICIPANT FORM for the SUMMER SCHOOL

Constructivism and Énaction

A new paradigm for Cognitive Science

FIRSTNAME: Gérard

NAME: OLIVIER



Photography

I. – SITUATION

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

University/ Laboratory : Laboratoire de Psychologie Expérimentale et Cognitive – Université de Nice Sophia-Antipolis- France

Website labo/perso: <http://www.unice.fr/LPEQ/Membres/enseignants/Olivier/Olivier.htm> (old one, 2001 !...)

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

- OLIVIER, G., CELSE C., & FAURE S. (2006) Simulation perceptive et degré d'habileté manuelle : des droitiers reconnaissent plus vite un objet saisissable de la main droite, *Année Psychologique*.
- OLIVIER, G., VELAY, J.L., LABIALE, G., CELSE C. & FAURE S. (2004) Mental rotation and simulation of a reaching and grasping manual movement, *Perceptual and Motor Skills*, 98, 1107-1116.
- OLIVIER, G., LABIALE, G & CELSE C. (2001) Influence of eye movements on the temporary maintenance of a shape in visual memory, *Cognitive Processing*, 4, 1-13.
- OLIVIER, G. & JUAN de MENDOZA, J. L. (2001), Generation of oculomotor images during tasks requiring visual recognition of polygons, *Perceptual and Motor Skills*, 92, 1233-1247.
- OLIVIER, G. & JUAN de MENDOZA, J. L. (2000), Motor dimension of visual mental image transformation processes, *Perceptual and Motor Skills*, 90, 1008-1026.

Projet de délégation au CNRS de Paris (LPPA ; Alain Berthoz) pour l'année universitaire 2006 2007:

Reach and grasp manual movement mental simulation and object visual perception

III. – RESEARCH THEME

Role of body movements in knowledge organisation:

- Relations between action and perception
- Oculomotor dimension of visual mental image
- Visuo-spatial working memory

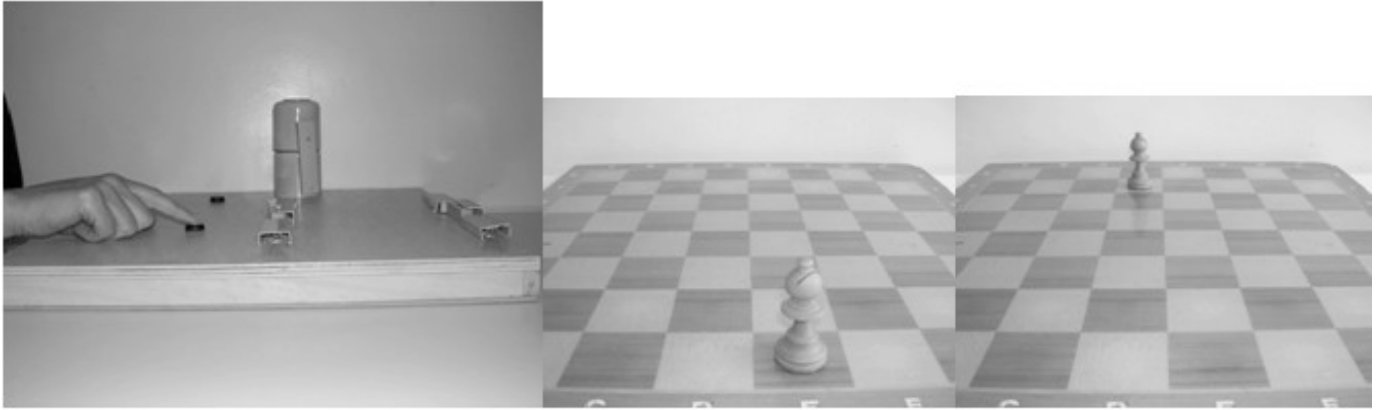
Keywords : motor cognition; visuomotor priming ; motor representation ; mental imagery ; motor imagery;

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?

Experimental demonstration :

« If the bishop that appears on the chessboard is white, then respond on the first switch. If it is black, respond on the second one”



This experimental material permits to show a compatibility effect between the reaching manual movement executed to respond and the mentally simulated reaching manual movement that would have permit to grasp the bishop.

“To locate a point in space, just imagine the body movement permitting to reach it” Poincaré.