I. – SITUATION

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

University/ Laboratory: Université de Montpellier III – EA 1977: Développement cognitif normal et troublé

Website labo/perso: www.univ-montp3.fr

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


ATER (Université de Montpellier III)

III. – RESEARCH THEME

In my researches, I adopt a “process-oriented” approach to drawing development focusing on the organization of the movement used for drawing (Goodnow & Levine, 1973). At a global level, this “syntaxic” approach describes graphic routines that drive drawing production. To be a graphic rule, a sequence of execution must be prevailing, whatever age of subject, design and task, and must be stable (resistance of constraints). If generality of a particular execution (progression from periphery to center) has been demonstrated in design composed of four embedded geometric shapes, on the other hand stability has not been studied. So, I am interested in the capacity of grapho-motor system to modify this sequence of execution in function of contextual modification, and the evolution over age. For that purpose, I am oriented to an experimental paradigm inspired by dynamic systems theory (Tuller, Case, Ding & Kelso, 1993, 1994): subjects are invited to copy successively fewer geometrical designs by adapting their executions to gradual modification of context parameter. This methodological approach go with theoretical questions about the emergentist (drawing production/perception coupling) vs representational (recovery in memory of graphic strategy) conception of cognitive functionment.

Keywords: Geometric design, Drawing execution, Stability, Dynamic systems theory, Cognitive development
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: no

Experimental demonstration: no