

ANEXO 5:

COMUNICAÇÃO⁵ – novembro/2016
JAM 16 – Analyse musicale et perception
Journées d'Analyse Musicale de la Sfam
MSH Dijon, Université de Bourgogne – França

THE MEANING OF EXPRESSIVE GESTURE AND MUSICAL GESTURE

Gesture analysis in the context of the study and development of a Digital Musical Instrument DIGITAL SOCK

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This research is part of the study and development of a digital musical instrument called Digital Sock, where the feet movements control the sound. The creation of the new instrument aims to support the analysis of movement and reflect on the interactional cycles in which it operates: educational, clinical and artistic.

The first stage of the research aims to investigate the body as a transitory space of relations and analyze the formation of the gesture without sound intention. This study was performed in motion capture lab at the Portuguese Catholic University and the interpretation of data prioritized the biomechanical and psychological analysis. The results showed us that the expressive gesture comes in two basic levels: **intentional** (objectified; complementary, auxiliary) and **significant**. The body analysis revealed that the body, when designing the gesture, is organized by the attitudes: **inner** (perception), **psychological** (action) and **dialogic** (interaction).

This result will serve as a parameter for the analysis of musical gesture that will be performed after the final design of the prototype instrument. Focusing on composition and performance, this new analysis will prioritize the body-instrument interaction with regard to the sound perception, sign design and spatial organization. This phase is anchored in studies Zagonel (1992);

⁵ http://tristan.u-bourgogne.fr/CGC/manifestations/16_17/16_11_21-22.html

Delalande (1988) and Marc Leman (2008) regarding the analysis of movements and gestures levels.