

Complex Vibrations on a Textured Surface

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The main part of our involvement in the PROTOTOUCH project is to evaluate the way we perceive touch and, thus, manage to optimise Tactile Displays.

At the Institute of Neuroscience in Brussels, we are mainly interested in evaluating how we process tactile input by conducting experiments using neuroimaging techniques (EEG) and psychophysical methods (with ESR2, David Gueorguiev). Until now, we have tested how the human brain perceives artificial stimuli (like gratings) at different scanning speeds. Currently, we are investigating how natural textures are perceived, a challenging yet very informative task.

At the same time, we try to keep up with most of the ongoing research in the domain. In April 2014, Prof. Sliman Bensmaia visited our lab and many interesting discussions followed our presentations on our involvement in PROTOTOUCH.

The next big step is the “Eurohaptics 2014” conference that will take place in Versailles, where important topics on neuroscience of touch will be discussed.

