

IS1404 E-READ: Evolution of Reading in the Age of Digitization

Position paper

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WG(s):

WG1: Continuing/skilled (PISA-age) reading

WG3 : Experiential and emotional aspects of reading

1. **Potential research contribution** in light of, or linked to

A. WG interest and Scientific programme:

I am now starting my PhD thesis on the topic of electronic reading. My master's thesis focused on attention in the case of a dual-task paradigm. On that occasion I have coupled an eye-tracking study with physiological measures such as electrodermal activity and heart rate. I am particularly interested in the theme of two working groups WG1 and WG3.

For WG1, I can support studies on the characterization of psychophysical measures as part of the assessment of electronic reading. My thesis work focuses precisely on the comparison of different kind of reading materials and tests that can help to discriminate them. My work is part of the continuation of a thesis that has been supported and proposes to develop an electronic reading quotient (ERQ) to compare different reading devices such as e-readers, tablets, or computer displays.

For WG3, I have already started collecting some emotional text by creating a web page dedicated to that collection. On this page, participants can write their little emotional texts and judge it on a 9 terms scale, Johanna Kaakinen performing the same work in Finland. The research laboratory (LUTIN, Paris) in which I am doing my thesis has a motion capture system that can be used coupled with the eye-tracking. This kind of material can be used to study the behaviors of emotional reading texts. Actually, reading distances and posture can be studied.

B. Action objectives (pages 7-10 in the MoU):

- Co-authoring research proposals
- E-reading devices comparison: eyestrain, reading speed, reading distance, screen resolution... (WG1)
- Experiment design including motion capture and eye-tracking (WG1, WG3)
- Relevant indicators of reading: distance of reading in the case of emotional texts (WG3)
- Emotional texts collection (WG3)

- Interpretation and scientific publication of results
- Participate to an exchange area for junior and early career researchers

2. Interest in

A. organizing and/or participating in a **short-term scientific mission (STSM)**.

Optional: pursuing what research questions/projects; where to/with whom; linked to what objective(s) of the Action:

I am interested in participate in a short-term scientific mission concerning emotional aspect of reading (WG3) and characterization of reading metrics to compare different kind of E-reading devices (WG1)

B. organizing and/or participating in a **Training School** (please indicate what kind of training [theoretical; methodological; technical]).

Optional: linked to what objective(s) of the Action:

As a PhD student, I am interested in participate in a training school.

Focus:

- Theoretical issues of cognitive processes of reading: various existing models, attentional processes...
- Methodological aspects of a research project
- Technical: neuroimaging, brain activity...