

Paul Marcel Carl Lemmens (Ph.D.)

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Objective

To establish a research position to investigate affective-information processing using stimulus-response compatibility paradigms with audiovisual stimuli.

Qualifications

I am a curious researcher interested in many aspects of human information-processing. Using the broad background knowledge that I have as a cognitive scientist, I pick up new ideas quickly to integrate them into the area that I am working in. When possible I try to bridge the gap between applied and basic scientific research by exploiting basic research methods in applied research.

Research interests

- Affective-information processing;
- Stimulus-response compatibility;
- Crossmodal information-processing.

Research history

2006 POSTDOC (Radboud University Nijmegen& Delft University of Technology).
2005 TEACHING (Radboud University Nijmegen).
Psychology of attention, research methods in basic and applied science.
2000 – 2004 PH.D. COGNITIVE SCIENCE (Radboud University Nijmegen).
Thesis title: “Congruency versus strategic effects in multimodal affective picture categorization”. Advisors: Prof. Dr. G. P. van Galen, Dr. A. de Haan, and Dr. R. G. J. Meulenbroek.

Skills

Data analysis: SPSS, Excel, R.
Computer languages: R, Perl, PHP, some C.
Platforms: Windows, Unix/Linux, Apple OSX.
Spoken languages: Dutch, near native English, basic German.

Funding

Cooperation with Dr. R. van Egmond (Delft University of Technology, Faculty of Industrial Design Engineering) and Prof. H. Schriefers (Radboud University Nijmegen, NICI). Duration: 6 months, fulltime.

References

Provided upon request.

Publications

Lemmens, P. M. C., de Haan, A., van Galen, G. P., & Meulenbroek, R. G. J. (in press). *Stimulus–Response Compatibility and Affective Computing: A Review*. Theoretical Issues in Ergonomics Science.

Lemmens, P. M. C. (2005). *Congruency versus Strategic Effects in Multimodal Affective Picture Categorization*. Unpublished doctoral dissertation, NICI, Radboud University Nijmegen.

Lemmens, P. M. C., de Haan, A., van Galen, G. P., & Meulenbroek, R. G. J. (2004). *Emotionally Charged Earcons Reveal Affective Congruency Effects*. Manuscript submitted for publication.

Lemmens, P. M. C. (2005). Using the Major and Minor Mode to Create Affectively–Charged Earcons. In E. Brazil (Ed.), *Proceedings of the International Conference on Auditory Display* (pp. 205–211). Limerick University, Ireland.

Lemmens, P. M. C., de Haan, A., & van Galen, G. P. (2003). Do Location and Content Operate Independently? In Brazil, E. & Shinn-Cunningham, B. (Eds.), *Proceedings of the International Conference on Auditory Display* (pp. 59-62). Boston University (MA), USA.

Lemmens, P. M. C., Bussemakers, M. P., & de Haan, A. (2001). Effects of Auditory Icons and Earcons on Visual Categorization: The Bigger Picture. In J. Hiipakka, N. Zacharov, & T. Takala (Eds.), *Proceedings of the International Conference on Auditory Display* (pp. 117-125). Espoo, Finland.

Lemmens, P. M. C., Bussemakers, M. P., & de Haan, A. (2000). The Effects of Earcons on Reaction Times and Error-rates in a Dual-Task vs. a Single-Task Experiment. In P. R. Cook (Ed.), *Proceedings of the International Conference on Auditory Display* (pp. 177-183). Atlanta, GA, USA.

Bussemakers, M. P., de Haan, A., & Lemmens, P. M. C. (1999). The Effect of Auditory Accessory Stimuli on Picture Categorization; Implications for Interface Design. In H. Bullinger & J. Ziegler (Eds.), *Human–Computer Interaction: Ergonomics and User Interfaces, Volume 1 of the Proceedings of the 8th International Conference on Human–Computer Interaction* (pp. 436–440). London: Lawrence Erlbaum Associates.