Publications

Chapter 2 first appeared in IEEE Transactions on Visualization and Computer Graphics and is based on a paper presented at EuroVis 2005. Chapter 3 is based on an invited paper to appear in IEEE Transactions on Visualization and Computer Graphics. Parts of this chapter already appeared as conference publications at EuroVis 2007 and the International Symposium on Mathematical Morphology 2007. The work in chapter 4 has been submitted to the Journal of Neuroscience Methods.

Papers in Scientific Journals

M. ten Caat, N. M. Maurits and J. B. T. M. Roerdink. Design and evaluation of tiled parallel coordinate visualization of multichannel EEG data. *IEEE Transactions on Visualization and Computer Graphics* **13**(1):70–79, 2007.

M. ten Caat, N. M. Maurits and J. B. T. M. Roerdink. Data-driven visualization and group analysis of multichannel EEG coherence with functional units. *IEEE Transactions on Visualization and Computer Graphics*, 2007. To appear. (Invited paper.)

Papers in Conference Proceedings

M. ten Caat, N. M. Maurits and J. B. T. M. Roerdink. Tiled parallel coordinates for the visualization of time-varying multichannel EEG data. In *Proc. Eurographics/IEEE VGTC Symposium on Data Visualization (EuroVis)*, pp. 61–68, Leeds, United Kingdom, June 2005.

M. ten Caat, N. M. Maurits and J. B. T. M. Roerdink. Functional unit maps for data-driven visualization of high-density EEG coherence. In *Proc. Eurographics/IEEE VGTC Symposium on Visualization (EuroVis)*, pp. 259–266, Norrköping, Sweden, May 2007.

M. ten Caat, N. M. Maurits and J. B. T. M. Roerdink. Watershed-based visualization of high-density EEG coherence. In *Proc. 8th International Symposium on Mathematical Morphology*, pp. 289–300, Rio de Janeiro, Brazil, October 2007.

Submitted Material

M. ten Caat, M. M. Lorist, E. Bezdan, J. B. T. M. Roerdink, and N. M. Maurits. High-Density EEG Coherence Analysis Using Functional Units Applied to a Mental Fatigue Study. Submitted to *Journal of Neuroscience Methods*, 2007.