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## Multichannel EEG Visualization

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*Document Version*

Publisher's PDF, also known as Version of record

*Publication date:*

2008

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*Citation for published version (APA):*

Caat, M. T. (2008). *Multichannel EEG Visualization*. s.n.

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# 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. Bezdán, 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.