

PUBLICATIONS

Inaugural lecture

Patiënten in getallen: wiskunde in de klinische neurofysiologie.
Natasha Maurits, University of Groningen, june 2007.

Thesis

Mathematical modeling of complex systems: Microphase separation dynamics in polymer liquids.
Natasha Maurits, University of Groningen, september 1998.

(chapters in) Books

From neurology to methodology and back: an introduction to clinical neuroengineering. N.M. Maurits
Springer 2012.

Signalen van prikkeling. De geschiedenis van de Klinische Neurofysiologie in het Universitair Medisch Centrum 1949-2009. Samenstelling en redactie: Mart J. van Lieburg en Natasha M. Maurits. Erasmus Publishing Rotterdam, 2009. ISBN 978-90-5235-202-2. Pantaleon Cahiers nr. 10.

Ben Maassen, Aryan van der Leij, Natasha Maurits, Theo van Leeuwen, Frans Zwarts
Neurolinguistic and neurophysiological precursors of dyslexia. Selective studies from the Dutch Dyslexia Programme in XXX, Extraordinary Brain series. Paul H. Brookes, Publishing Co. Submitted 1-9-2010. In Benasich & Fitch (Eds.) Developmental Dyslexia: Early Precursors, Neurobehavioral Markers and Biological Substrates. In press, to be published in 2012.

Lekenpublicaties

N.M. Maurits

Patiënten in getallen: een verrassend perspectief op de wiskunde
Nieuwe Wiskrant, 29(3):28-33, 2010.

N.M. Maurits

Patiënten in getallen: echte wiskunde in het ziekenhuis
Periodiek, 4: 27-31, 2009

Peer-reviewed journals (published/in press)

2011

1. A. Crippa, N.M. Maurits, M.M. Lorst, J.B.T.M. Roerdink
Graph averaging as a means to compare multichannel EEG coherence networks and its application to the study of mental fatigue and neurodegenerative disease. *Computers & Graphics. Computers and Graphics* 35 (2):265-274, 2011.
2. Sival DA, Pouwels ME, VAN Brederode A, Maurits NM, Verschuuren-Bemelmans CC, Brunt ER, DU Marchie Sarvaas GJ, Verbeek RJ, Brouwer OF, van der Hoeven JH.
In children with Friedreich ataxia, muscle and ataxia parameters are associated.
Dev Med Child Neurol. 2011 Jun; 53(6):529-34.
3. Steens, A.J. de Vries, J.H. Hemmen, J.H. van der Hoeven, D.J. Heersema, M.A.P. Heerings, N.M. Maurits, I. Zijdewind
Fatigue Perceived by Multiple Sclerosis Patients Is Associated With Muscle Fatigue.
Neurorehab Neural Repair, 2011 Aug 19. [Epub ahead of print].
4. C.M. Toxopeus, B.M. de Jong, G. Valsan, B.A. Conway, J.H. van der Hoeven, K.L. Leenders, N.M. Maurits
Impairment of gradual muscle adjustment during wrist circumduction in Parkinson's disease
PLoS One. 2011;6(9):e24572.
5. Dan Arnstein, Fang Cui, Christian Keysers/Natasha M. Maurits/Valeria Gazzola
 μ -Suppression during Action Observation and Execution Correlates with BOLD in Dorsal Premotor, Inferior Parietal, and SI Cortices. *The Journal of Neuroscience*, 5 October 2011, 31(40):14243-14249;
doi:10.1523/JNEUROSCI.0963-11.2011
6. C.M. Toxopeus, B.M. de Jong, G. Valsan, B.A. Conway, J.H. van der Hoeven, K.L. Leenders, N.M. Maurits.
Direction of movement is encoded in the human primary motor cortex. *PLoS ONE* 2011;6(11): e27838.
7. Renate J. Verbeek, Axel Heep, Natalia M. Maurits, Reinhold Cremer, Eelco W. Hoving, Oebele F. Brouwer, Johannes H. van der Hoeven, Deborah A. Sival
Fetal endoscopic myelomeningocele closure preserves segmental neurological function. *Dev Med Child Neurol*, 2012 Jan;54(1):15-22.

8. A. Steens, D.J. Heersema, N.M. Maurits, R.J. Renken, I. Zijdwind
Mechanisms responsible for muscle fatigue differ between Multiple Sclerosis patients and controls: a combined electrophysiological and neuroimaging study. *NeuroImage*. 2011 Nov 21. [Epub ahead of print]
9. E.W. Gieteling, M. Bakker, A. Hoekema, N.M. Maurits, W.H. Brouwer, J.H. van der Hoeven
Impaired driving simulation in patients with Periodic Limb Movements in Sleep and patients with Obstructive Sleep Apnea Syndrome. *Sleep Medicine*, in press.

2010

10. Alessandro Crippa, Natasha M. Maurits, and Jos B. T. M. Roerdink
Graph Averaging as a Means to Compare Multichannel EEG Coherence Networks. In Dirk Bartz, Charl Botha, Joachim Hornegger, Raghu Machiraju, Alexander Wiebel, and Bernhard Preim, eds., *Eurographics Workshop on Visual Computing for Biology and Medicine*. Leipzig, Germany. Eurographics Association, pages 33–40, 2010.
11. D.E.O. Dewi, M.H.F. Wilkinson, T.L.R. Mengko, I.K.E. Purnama, P.M.A. van Ooijen, A.G. Veldhuizen, N.M. Maurits, and G.J. Verkerke. An Improved Olympic Hole-Filling Method for Freehand Three-Dimensional Ultrasound Reconstruction of the Spine. *International Journal of E-Health and Medical Communications* (2010), 1(3): 28–40.
12. L.A. Bok, N.M. Maurits, J.H. van der Hoeven, C. Jakobs, L.K. Teune, I.F. de Coo, E.E. Hagebeuk, M.A. Willemsen, O.F. Brouwer, D.A. Sival
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14. G. Rozema, N.M. Maurits, A.E.P. Veldman
Linking an artery to the circulation: introducing a quasi-simultaneous coupling approach for partitioned systems in hemodynamics.
J. Vander Sloten, P. Verdonck, M. Nyssen, J. Haueisen (Eds.): *ECIFMBE 2008, IFMBE Proceedings 22*, pp. 1930–1934, 2008. www.springerlink.com © Springer-Verlag Berlin Heidelberg 2009
15. W.J.G. van de Wassenberg, J.H. van der Hoeven, K.L. Leenders, N.M. Maurits
128-channel somatosensory evoked potentials in the differential diagnosis of parkinsonian disorders. *Parkinsonism Relat Disord*. 15(8):564-71, 2009. **Q2**
16. M.M. Lorist, E. Bezdan, M. ten Caat, M.M. Span, J.B.T.M. Roerdink, N.M. Maurits
The influence of mental fatigue and motivation on task switching; an EEG coherence study
Brain Res. 1270:95-106, 2009. **Q3**
17. W.J.G. van de Wassenberg, N.M. Maurits
Klinisch neurologische toepasbaarheid van multikanaals EEG
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Early Hum Dev 85(10):647-651, 2009. **Q2**
20. K.T. Verbruggen, N.M. Maurits, L.C. Meiners, O.F. Brouwer, F.J. van Spronsen, P.E. Sijens
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21. H. van Duinen, R. Renken, N.M. Maurits, I. Zijdwind
The relation between muscle and brain activity during isometric contractions of the first dorsal interosseus muscle. (Met figuur op voorpagina!)
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22. W.J.G. van de Wassenberg, J.H. van der Hoeven, K.L. Leenders, N.M. Maurits
Multichannel recording of median nerve SEP. *Neurophysiol Clin*. 38(1):9-21, 2008. **Q3**
23. Anne-Fleur van Rootselaar, Natasha M Maurits, Remco Renken, Johannes HTH Koelman, Johannes M Hoogduin, Klaus L Leenders, Marina AJ Tijssen
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24. M. ten Caat, N.M. Maurits, J.B.T.M. Roerdink
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High-Density EEG Coherence Analysis Using Functional Units Applied to a Mental Fatigue Study.
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29. P.M. de Vries, K.L. Leenders, J.H. van der Hoeven, B.M. de Jong, A.J. Kuiper, N.M. Maurits
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30. N.M. Maurits
Patiënten in getallen: echte wiskunde in het ziekenhuis.
Euclides, 82(8):309-313, 2007.
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35. A.F. van Rootselaar, R. Renken, B.M. de Jong, J.M. Hoogduin, M.A.J. Tijssen, N.M. Maurits
fMRI analysis for motor paradigms using EMG-based designs: a validation study.
Human Brain Mapping, 28(11):1117-1127, 2007. **Q1**
36. Marijn Post, Hiske van Duinen, Anneke Steens, Remco Renken, Bart Kuipers, Natasha Maurits and Inge Zijdwind
Reduced cortical activity during maximal bilateral contractions of the index finger.
Neuroimage, 35:16-27, 2007. **Q1**
37. N.M. Maurits, E. Loots, A.E.P. Veldman
The influence of vessel wall elasticity and peripheral resistance on the carotid artery flow wave form: a CFD model compared to in-vivo ultrasound measurements.
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38. M. ten Caat, N.M. Maurits, J.B.T.M. Roerdink
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