

List of Publications

Full papers

- Van Ooyen, A. & Hogeweg, P. (1990) Iterative character weighting based on mutation frequency: a new method for constructing phyletic trees. *J. Mol. Evol.* 31: 330-342.
- Rademakers, L. H. P. M., Schuurman, H.-J., De Frankrijker, J. F. & Van Ooyen, A. (1990) Ultrastructural analysis of germinal centres in lymph nodes after HIV-1 infection. *Micron and Microscopica Acta* 21: 267-268.
- Dijkshoorn, L., Van Ooyen, A., Hop, W. C. J., Theuns, M. & Michel, M. F. (1990) Comparison of clinical acinetobacter strains using a carbon source growth assay. *Epidemiol. Infect.* 104: 443-453.
- Rademakers, L. H. P. M., Schuurman, H.-J., De Frankrijker, J. F. & Van Ooyen, A. (1992) Cellular composition of germinal centers in lymph nodes after HIV-1 infection: evidence for an inadequate support of germinal center B lymphocytes by follicular dendritic cells. *Clin. Immun. and Immunopathol.* 62: 148-159.
- Van Ooyen, A. & Nienhuis, B. (1992) Improving the convergence of the back-propagation algorithm. *Neural Networks* 5: 465-471.
- Van Ooyen, A., Van Pelt, J., Corner, M. A. & Lopes da Silva, F. H. (1992) Long-lasting transients of activation in neural networks. *Neurocomputing* 4: 75-87.
- Van Ooyen, A., Van Pelt, J., Corner, M. A. & Lopes da Silva, F. H. (1992) The emergence of long-lasting transients of activity in simple neural networks. *Biol. Cybern.* 67: 269-277.
- Dijkshoorn, L., Van Dalen, R., Van Ooyen, A., Bijl, D., Tjernberg, I., Michel, M. F. & Horrevorts, A. M. (1993) Endemic acinetobacter in intensive care units: epidemiology and clinical impact. *J. Clin. Pathol.* 46: 533-536.
- 't Hart, H., Sandbrink, J. M., Csikos, I., Van Ooyen, A. & Van Brederode, J. (1993) The allopolyploid origin of *Sedum rupestre* subsp. *rupestre* (*Crasulaceae*). *Pl. Syst. Evol.* 184: 195-206.
- Van Ooyen, A. & Nienhuis, B. (1993) Pattern recognition in the neocognitron is improved by neuronal adaptation. *Biol. Cybern.* 70: 47-53.
- Van Ooyen, A. & Van Pelt, J. (1994) Activity-dependent outgrowth of neurons and overshoot phenomena in developing neural networks. *J. Theor. Biol.* 167: 27-43.

- Van Ooyen, A. & Van Pelt, J. (1994) Activity-dependent neurite outgrowth and neural network development. In: J. van Pelt, M. A. Corner, H. B. M. Uylings & F. H. Lopes da Silva (eds.) *The Self-Organizing Brain: From Growth Cones to Functional Networks. Progress in Brain Research*, Vol. 102, Elsevier, Amsterdam, pp. 245-259.
- Van Ooyen, A. (1994) Activity-dependent neural network development. *Network*: 401-423.
- Van Ooyen, A., Van Pelt, J. & Corner, M. A. (1995) Implications of activity-dependent neurite outgrowth for neuronal morphology and network development. *J. Theor. Biol.*, 172: 63-82.
- Van Ooyen, A. & Van Pelt, J. (1995) Complex periodic behaviour in a neural network model with activity-dependent neurite outgrowth. *J. Theor. Biol.*, in press.
- Van Oss, C. & Van Ooyen, A. (1995) Effects of inhibition on neural network development through activity-dependent neurite outgrowth. *J. Theor. Biol.*, submitted.
- Houweling, A. R., Van Ooyen, A. & Van Pelt, J. (1995) Effects of transmission delays in a leaky integrator two-neuron network. *Biol. Cybern.*, submitted.

Proceeding papers

- Van Ooyen, A. & Van Pelt, J. (1992) Phase transitions, hysteresis and overshoot in developing neural networks. In: I. Aleksander & J. Taylor (eds.), *Artificial Neural Networks 2, Proc. Int. Conf. on Artificial Neural Networks, Brighton (ICANN'92)*, Elsevier, Amsterdam, pp. 907-910.
- Van Ooyen, A. & Van Pelt, J. (1993) Implications of activity-dependent neurite outgrowth for developing neural networks. In: S. Gielen & B. Kappen (eds.), *Proc. Int. Conf. on Artificial Neural Networks, Amsterdam (ICANN'93)*, Springer, Berlin, pp. 177-182.
- Van Ooyen, A. & Van Pelt, J. (1994) Complex patterns of oscillations in a neural network model with activity-dependent outgrowth. In: M. Marinaro & P. G. Morasso (eds.), *Artificial Neural Networks 1, Proc. Int. Conf. on Artificial Neural Networks, Sorrento (ICANN'94)*, Springer, Berlin, pp. 146-149.
- Pakdaman, K., Van Ooyen, A., Houweling, A. R. & Vibert, J.-F. (1994) Hysteresis in a two neuron-network: basic characteristics and physiological implications. In: M. Marinaro & P. G. Morasso (eds.), *Artificial Neural Networks 1, Proc. Int. Conf. on Artificial Neural Networks, Sorrento (ICANN'94)*, Springer, Berlin, pp. 162-165.
- Van Oss, C. & Van Ooyen, A. (1995) Activity-dependent neurite outgrowth in a simple neural network model including excitation and inhibition. In: M. Verleysen (ed.), *Artificial Neural Networks, Proc. 3rd European Symp. on Artificial Neural Networks, Brussels, (ESANN'95)*, D factio, Brussels, pp. 87-92.