

Curriculum Vitae

Professor Dr. Martin Giese

Personal Details:

Day of birth: 21. June 1966

Family status: married, 1 Child

Address: University of Tuebingen
Hertie Institute for clinical Brain Research
& Center for Integrative Neuroscience
Otfried-Müller-Str.25
72076 Tübingen

Tel.: +49(0)7071 29 89 124
Fax: +49(0)7071 29 25 011

E-mail: martin.giese@uni-tuebingen.de



Education:

1986-1993 Studium der Elektrotechnik und der Psychologie an der Ruhr-Universität Bochum

1986-1993 Mitglied der Studienstiftung des deutschen Volkes 1991, Vordiplom in Psychologie

1993 Diplom in Elektrotechnik

1998 Promotion in Elektrotechnik (Neuroinformatik) an der Ruhr-Universität Bochum, summa cum laude

1998-2001 Postdoc und Visiting Researcher, Center for Biological and Computational Learning, M.I.T., Cambridge MA

2000-2001 Director, Boston Research Laboratory, Honda Americas, Boston, MA

2001-2007 Leiter der Nachwuchsgruppe "Action Representation and Learning" (Volkswagenstiftung), Universitätsklinik und Hertie-Institut für klinische Hirnforschung, Universität Tübingen

2006 Habilitation in Informatik an der Universität Ulm

2007-2008 Senior Lecturer, School of Psychology, Bangor University, Bangor, UK

Seit 2008 Professor für Theoretische Sensomotorik, Center for Integrative Neuroscience (CIN) und Hertie-Institut für klinische Hirnforschung (HIH), Universität Tübingen

Honors and Board Memberships:

Since 2010 Editor of ACM Transaction on Applied perception

2008	Associate Editor of the ACM Transactions on Applied Perception
2003	Teaching Award of the Graduate School for Neural and Behavioral Science
2001	Award of a junior research group of the Volkswagen foundation
1998	Fellowship of the Deutsche Forschungsgemeinschaft
1987-1995	Fellow of the German National Academic Foundation (Studienstiftung des deutschen Volkes)

Scientific Interest:

- Neuronale Modelle für High-level Vision
- Bewegungsanalyse und Modellierung
- Bewegungs- und Handlungswahrnehmung
- Bewegungsstörungen
- Psychophysik

Publications:

- Endres D, Christensen A, Omlor L, Giese MA (2011) Emulating human observers with Bayesian binning: segmentation of action streams. *ACM Transactions on Applied Perception (TAP)*, 8(3):16:1-12.
- Omlor L, Giese MA (2011) Anechoic blind source separation using Wigner marginals. *Journal of Machine Learning Research* 12, 1111-1148.
- Christensen A, Ilg W, Giese MA (2011) Spatiotemporal tuning of the facilitation of biological motion perception by concurrent motor execution. *J. Neurosci.* 31(9), 3493-9.
- Curio C., Bühlhoff H.H., Giese M.A. (2011) *Dynamic Faces: Insights from Experiments and Computation*. MIT Press, Cambridge, MA
- Caggiano V, Fogassi L, Rizzolatti G, Pomper JK, Thier P, Giese MA, Casile A* (2011) View-based encoding of actions in mirror neurons of area f5 in macaque premotor cortex. *Curr Biol.* 21(2), 144-8.
- Mukovskiy A, Slotine JJE, Giese MA (2011) Analysis and design of the dynamical stability of collective behavior in crowds. *Journal of the International Conference on Computer Graphics, Visualization and Computer Vision (WSCG)*, 1-3, 69-76
- Roether CL, Omlor L, Giese MA (2008) Lateral asymmetry of bodily emotion expression. *Current Biology*, 18, R329-330
- Heinrich H. Bühlhoff, Christian Wallraven Martin A. Giese (2008) *Handbook of Robotics Chapter 64: Perceptual Robotics: Example-based representations of shapes and movements*. From: Siciliano, B., O. Khatib (eds.): *Springer Handbook of Robotics*, Springer, Berlin, Germany, 2008, pp. 1481-1498.
- Casile A, Giese MA (2006) Non-visual motor learning influences the recognition of biological motion. *Current Biology*, 16, 69-74.
- Giese MA, Poggio T (2003) Neural mechanisms for the recognition of biological movements and action. *Nature Reviews Neuroscience* 4:179-192
- Giese MA (1999) *Neural Field Theory of Motion Perception*. Kluwer Academic Publishers, Dordrecht, Netherlands.
- Leopold DA, Bondar IV, Giese MA (2006) Norm-based face encoding by single neurons in the monkey inferotemporal cortex. *Nature*, 442, 572-575

- Omlor L, Giese MA (2006) Blind source separation for over-determined delayed mixtures. In: Schölkopf B, Platt J, Hoffman, T (eds): *Advances in Neural Information Processing Systems 19*, MIT Press, Cambridge MA, 1049-1056.
- Casile A, Giese MA (2006) Non-visual motor learning influences the recognition of biological motion. *Current Biology*, 16, 69-74.
- Ilg W, Golla H, Thier H P, Giese MA (2007) Quantification of the spatiotemporal characteristics of influences of cerebellar dysfunction on gait. *Brain*, 130, 786-98.
- Roether CL, Omlor L, Giese MA (2008) Lateral asymmetry of bodily emotion expression. *Current Biology*, 18, R329-330.