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## 1 Appointments and professional preparation

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| 2001 – present | Professor, Chair for Theoretical Biology and Director of the Institut für Neuroinformatik, co-appointments in the Faculties of Physics and Electrical Engineering, Ruhr-Universität Bochum, Germany |
| 1994 – 2001    | Directeur de Recherche, CNRS—Centre de Recherche en Neurosciences Cognitives, Marseille, France   |
| 1989 – 1994    | Group leader, Institut für Neuroinformatik, Ruhr-Universität Bochum, Germany  |
| 1986 – 1989    | Assistant Research Professor, Center for Complex Systems, Florida Atlantic University, Boca Raton, Florida, U.S.A.  |
| 1983–1985      | PhD (Dr. rer. nat) in Theoretical Physics at the Universität Stuttgart, West Germany  |
| 1979-1982      | Physics “Diplom” (~ M.Sc.), Universität des Saarlandes, Saarbrücken, West Germany   |

## 2 Selected recent publications

Schöner, G., Dineva, E.: Dynamic instabilities as mechanisms for emergence. *Developmental Science* **10**:69-74 (2007)

Hsu, W.L., Scholz, J.P., Schöner, G., Jeka, J.J., Kiemel, T.: Control and estimation of posture during quiet stance depends on multi-joint coordination. *Journal of Neurophysiology* **97**:3024-3035 (2007)

Schöner, G., Scholz, J.P.: Analyzing Multi-Degree-of-Freedom Movement System based on Variance: Uncovering Structure vs. Extracting Correlations *Motor Control* **11**:259-275 (2007)

Schöner, G., Thelen, E.: Using Dynamic Field Theory to Rethink Infant Habituation. *Psychological Review* **113**(2):273-299 (2006)

Wilimzig, C., Schneider, S., Schöner, G.: The time course of saccadic decision making: Dynamic Field Theory. *Neural Networks* **19**:1059-1074 (2006)

Nichols, D.F., Hock, H.S., Schöner, G.: Linking Dynamical Perceptual Decisions at Different Levels of Description in Motion Pattern Formation: Computational Simulations *Perception & Psychophysics* **68**(3):515-533 (2006)

Jancke, D., Erlhagen, W., Schöner, G., Dinse, H.R.: Shorter latencies for motion trajectories than for flashes in population responses of cat primary visual cortex. *Journal of Physiology* **556.3**:971-982 (2004)

Spencer J.P., Schöner, G.: Bridging the representational gap in the dynamical systems approach to development *Developmental Science* **6**:392-412 (2003)

Erlhagen, W., Schöner, G.: Dynamic field theory of movement preparation *Psychological Review* **109**: 545-572 (2002)

## 3 Current grant support

The grounding of higher brain function in dynamic neural fields (2007-2010); Bundesministerium für Bildung und Forschung, Berlin, Germany; 979 477 Euro.

Bosch GmbH (2007-2008); 70 000 Euro

Nokia Research Center Bochum GmbH (2007-2008); 45 000 Euro

OrthoMIT Intraoperative ultrasound (2005-2008); Bundesministerium für Wissenschaft und Forschung, Berlin, Germany; 886 661 Euro.