

Curriculum Vitae

Michal Vavrečka

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Education:

1/2005- 6/2008 Masaryk University, Faculty of Social Studies, Brno, Czech Republic, PhD. Degree, General Psychology, 18.6.2008, Application of cognitive semantics in the model of spatial relations representation.

9/1999-1/2005 Masaryk University, Faculty of Arts, Brno, Czech Republic, M.A. Degree, Psychology, 1.2.2005, Methods of Human Intelligence Simulation.

Position:

4/2008- present Czech Technical University, Faculty of Electrical Engineering, Biodat Research Group, Gerstner Laboratory, Prague, Czech Republic, Assistant Professor

Scholarships:

2009 SAIA scholarship
Department of Applied Informatics, Faculty of Mathematics, Physics and informatics, Me:CogSci, Comenius University, Bratislava, Slovakia

2007 SAIA scholarship
Department of Applied Informatics, Faculty of Mathematics, Physics and informatics, Me:CogSci, Comenius University, Bratislava, Slovakia

2006 Summer school of Cognitive science Central and Eastern European Center for Cognitive Science, Sofia, Bulgaria

Grants:

2009 FRVS 2081/2009/F1/a Inovation in Cognitive Systems

Teaching:

2005-2010 Introduction to Cognitive Science

2008-present Cognitive Systems

2009-2010 Cognitive Psychology - Metacognition

Membership:

Eucog II - 2nd European Network for the Advancement of Artificial Cognitive Systems, Interaction and Robotics

Publications

Vavrečka, M., Farkaš, I., Unsupervised grounding of spatial relations. In Proceedings of European Conference on Cognitive Science, Sofia, Manuscript submitted for publication.

Vavrečka, M., Farkaš, I., (2010). Unsupervised model for grounding multimodal representations. Third EuCogII Members Conference, Mallorca.

Vavrečka, M., Kužílek J., Lhotská, L., (2010). Classification of the EEG feature components , *In Proceedings of 10th International Conference on Information Technology and Applications in Biomedicine [CD-ROM]*,.Piscataway: IEEE, 2010

Gerla V., Djordjevic, V., Vavrečka, M., Lhotská, L., (2010). Application of Clustering for Increasing the Evaluation Objectivity of Electroencephalographic Recordings , *In Proceedings of 20th Biennial International Conference on Biosignal Processing [CD-ROM]*,.Brno: 2010

Vavrečka, M., (2010). *(in Czech)* Representation of objects in space based on two visual pathways. In: *Kelemen, J. , Kvasnička, V., (eds.), Kognice a umělý život X*. Opava 2010, p. 403-409.

Vavrečka, M. (2009). *(in Czech)* Model for spatial relations grounding. In *M. Petrů et al. (eds.) Struny mysli : Kognice 2007*. Ostrava: Montanex, 2009, p.139-148. ISBN 978-80-7225-302-9.

Macaš, M., Vavrečka, M., Gerla V., Lhotská, L., (2009). Classification of the emotional states based on the EEG signal processing , *In Proceedings of 9th International Conference on Information Technology and Applications in Biomedicine [CD-ROM]*,.Piscataway: IEEE, 2009

Vavrečka, M., (2009). The neural correlates of spatial reference frames processing, *Cognitive processing*, 10:2, Springer Berlin, p. 342-345.

Vavrečka, M., (2009). The EEG Correlates of the Allocentric and the Egocentric Spatial Reference Frames Processing, In: *O. Dossel and W. Schlegel (Eds.), World Congress on Medical Physics and Biomedical Engineering 2009, IFBME Proceedings*,. Heidelberg: Springer, 2009, vol. 25/IV, p. 2295-2299.

Vavrečka, M., (2009). *(in Czech)* The EEG activity within the spatial navigation. In: *Kelemen, J. , Kvasnička, V., Rybár, J. (eds.), Kognice a umělý život IX*.

Opava 2009, p. 341-350.

Vavrečka, M., (2008). *(in Czech)* Spatial frames of reference processing and its EEG correlates. In *55. společný sjezd české a slovenské společnosti klinické neurofyzologie*. MSD Brno, p. 49

Vavrečka, M. (2008). *(in Czech)* Application of the cognitive semantics in the model for the spatial terms representation. *Unpublished PhD thesis, Masaryk University in Brno, Czech Republic*.

Vavrečka, M. (2008). *(in Czech)* Multimodal representations for symbol grounding. In: V. Kvasnička, P. Trebatický (Eds.), *Kognice a umělý život VIII* Praha : VŠE Praha, 2008

Vavrečka, M. (2007). *(in Czech)* Grounding of spatial terms. In: J. Kelemen, V. Kvasnička (eds.), *Kognice a umělý život VII*. 1. vyd. Opava : Slezská univerzita, p. 365-377.

Vavrečka, M. (2006). *(in Czech)* Symbol grounding in context of zero semantic commitment. In: J. Kelemen, V. Kvasnička (eds.), *Kognice a umělý život VI*. Opava : Slezská univerzita, p. 401-411

Vavrečka, M. (2006). *(in Czech)* How long-term presentation of text stimuli affects production and perception of visual mental images. In: Šíkl, R., Lukavský, J. (eds.), *Kognice 2006*. 1. vyd. Praha : Psychologický ústav AVČR, (2006). p. 150-158