

CURRICULUM VITAE

Name: Karel Košnar
Date of birth: 19.7.1979
Email: kosnar@labe.felk.cvut.cz
Phone: +420 22435 5765
Current employer: Czech Technical University in Prague,
Faculty of Electrical Engineering (FEE),
Department of Cybernetics
Technická 2, 166 27 Prague 6

Work experience: 2008 – now research fellow, Czech Technical University in Prague , Faculty of
Electrical Engineering
2007 research fellow, Institute for Human & Machine Cognition

Education: 2011 Ph.D. in Artificial Intelligence and Biocybernetics, Czech Technical University
in Prague
2004 Ing. (=M.Sc.) in Technical Cybernetics, Czech Technical University in Prague

Grants: 2013 – 2015 Spatial Cognition for Mobile Robots, *Czech Grant Agency* (principal
investigator)
2006 – 2011 SyRoTek - System for robotic e-learning, *Ministry for Education, Youth and
Sport Czech Republic* (co-investigator)
2006 Mapping of unknown environment by group of reactive robots, *CTU* (Principal
investigator)
2005 Mapping of unknown environment by covering with group of reactive robots,
CTU (Principal investigator)

Selected publications:

- Kulich, M. - Chudoba, J. - Košnar, K. - Krajník, T. - Faigl, J. - et al.: SyRoTek - Distance Teaching of Mobile Robotics. *IEEE Transactions on Education*. 2013, vol. 56, no. 1, p. 18-23. ISSN 0018-9359
- Vonásek, V. - Saska, M. - Košnar, K. - Přeučil, L.: Global Motion Planning for Modular Robots with Local Motion Primitives. In *ICRA2013: Proceedings of 2013 IEEE International Conference on Robotics and Automation*. Piscataway: IEEE, 2013.
- Vonásek, V. - Košnar, K. - Přeučil, L.: Motion Planning of Self-reconfigurable Modular Robots Using Rapidly Exploring Random Trees. In *Joint Proceedings of the 13th Annual TAROS Conference and the 15th Annual FIRA RoboWorld Congress*. Dordrecht: Springer, 2012, p. 279-290.
- Krajník, T. - Faigl, J. - Vonásek, V. - Košnar, K. - Kulich, M. and Přeučil, L.: Simple, Yet Stable Bearing-Only Navigation. *Journal of Field Robotics*, 27(5):511--533, September 2010.
- Přeučil, L. - Štěpán, P. - Krajník, T. - Košnar, K. - Rossum, A.V.R. and Salden, A.H.S.: Cognitive World Modeling, pages 165--183. Springer, Berlin, 2010.
- Košnar, K. - Krajník, T. - Vonásek, V. and Přeučil, L.: LaMa - Large Maps Framework. In *Proceedings of Workshop on Field Robotics, Civilian-European Robot Trial 2009*, pages 9--16, Oulu, 2009. University of Oulu.
- Košnar, K. - Krajník, T. and Přeučil, L.: Visual Topological Mapping. In *European Robotics Symposium 2008*, pages 333--342, Heidelberg, 2008. Springer.
- Košnar, K. - Přeučil, L. and Štěpán, P.: Topological Multi-Robot Exploration. In *Proceedings of the IEEE Systems, Man and Cybernetics Society United Kingdom & Republic of Ireland Chapter 5th Conference on Advances in Cybernetic System*, pages 137--141, New York, 2006. IEEE - Systems, Man, and Cybernetics Society.