

## Selected Publications - Dr Libor Spacek

1. L. Spacek 'Use of Constraints for Interpretation of Three Dimensional Scenes', University of Essex MSc Dissertation in Computer Science (Artificial Intelligence), with Distinction, 1978.
2. L. Spacek 'A portable prolog tracing package', **Logic Programming Newsletter** **3**, pp. 7-9, August 1983.
3. L. Spacek 'The Detection of Contours and their Visual Motion', University of Essex PhD thesis, 1986.
4. L. Spacek 'Edge Detection and Motion Detection', **Image and Vision Computing Journal**, vol. **4(1)**, pp. 43-56, February 1986.
5. T.J. Reynolds, A.J. Beaumont, A.S.K. Cheng, S.A. Delgano-Rennauro, and L. Spacek 'Brave - A Parallel Logic Language for Artificial Intelligence', **Future Generations Computer Systems Journal**, vol. **4**, pp. 69-75, 1988.
6. L. Spacek, M. Kubat, and D. Flotzinger 'Face Recognition Through Learned Boundary Characteristics', **Applied Artificial Intelligence Journal**, vol. **8(1)**, pp. 149-165, January 1994.
7. T. Rachidi, L. Spacek 'Boundary-based Correspondence Computation Using the Topology Constraint', **Proceedings of the 5th British Machine Vision Conference BMVC94**, York, England, pp. 55-64, September 1994.
8. T. Rachidi, L. Spacek 'Constructing Coherent Boundaries', **Proceedings of the 5th British Machine Vision Conference BMVC94**, York, England, pp. 295-304, September 1994.
9. T. Rachidi, L. Spacek 'Occlusion Analysis using Boundary Correspondence', **Proceedings of the 2nd Asian Conference on Computer Vision ACCV95**, Singapore, December 1995.
10. T. Rachidi, L. Spacek and U.Al-Akawayn 'Computing 2D Motion of Boundaries from Correspondences of Points', **Proceedings of the Vision Interface Conference VI97**, Kelowna BC, Canada, pp. 39-46, May 1997.
11. T. Rachidi, L. Spacek 'Motion from Ordered Sets of Curvature Points', **Proceedings of the 10th Scandinavian Conference on Image Analysis SCIA97**, ISBN 951-764-145-1, Vol 2/2, pp. 573-580, Finland, June 1997.
12. D. Hond, L. Spacek 'Distinctive Descriptions for Face Processing', **Proceedings of the 8th British Machine Vision Conference BMVC97**, Colchester, England, pp. 320-329, September 1997.
13. K. Rushant, L.Spacek 'An Autonomous Vehicle Navigation System using Panoramic Vision Techniques', **Proceedings of the International Symposium on Intelligent Robotics Systems, ISIRS 98**, Bangalore, India, pp. 275-282, January 1998.
14. D.Gu, H.Hu, L.Spacek 'Learning Fuzzy Logic Controller for Reactive Robot Behaviours', **International Conference on Advanced Intelligent Mechatronics AIM 2003**, Kobe, Japan, July 20-24, 2003.

15. L.Spacek 'Omnidirectional Catadioptric Vision Sensor with Conical Mirrors', **Proceedings of TIMR 2003, Towards Intelligent Mobile Robots 4th British Conference on Mobile Robotics**, Bristol, UK, August 2003.
16. Spacek 'Omni Flow', **Proceedings of TAROS 2004, ISSN 1744-8050, Towards Autonomous Robotics Systems**, Colchester, UK, September 2004.
17. L.Spacek 'Coaxial Omnidirectional Stereopsis', **European Conference on Computer Vision ECCV 2004**, Prague, Czech Republic, May 10-14, 2004, pp. 354-365.
18. L.Spacek 'A Catadioptric Sensor with Multiple Viewpoints', **Journal of Robotics and Autonomous Systems** **51 (2005)**, pp. 3-15.
19. C.Burbridge, L.Spacek 'Omnidirectional Vision Simulation and Robot Localisation', **Proceedings of TAROS 2006, Towards Autonomous Robotics Systems**, Guildford, UK, September 2006.
20. G.Francis, L.Spacek 'Linux Robot with Omnidirectional Vision', **Proceedings of TAROS 2006, Towards Autonomous Robotics Systems**, Guildford, UK, September 2006.
21. L.Spacek, C.Burbridge 'Instantaneous Robot Self-localization and Motion Estimation with Omnidirectional Vision', **Journal of Robotics and Autonomous Systems** **55 (2007)**, pp. 667-674.
22. Chris Burbridge and Libor Spacek and Joan Condell and Ulrich Nehmzow 'Monocular Omnidirectional Vision based Robot Localisation and Mapping', **Proceeding of TAROS 2008, Towards Autonomous Robotics Systems**, pp. 135-141.