

# Tomáš Pajdla

## *Curriculum Vitae*

Tomáš Pajdla was born in Prague, Czech Republic on May 10, 1969. In 1992, he received M.S. in Electrical Engineering at The Czech Technical University, Prague for the thesis *Geometric Model Construction from Sequences of Range Images*. In 1994-1995, he spent one year at ESAT, Katholieke Universiteit, Leuven, Belgium where he worked at VISICS group. Since 1995, he is an assistant professor at the Department of Cybernetics of the Czech Technical University, Prague.

Tomáš Pajdla works on different aspects of computer vision. His experience includes visual robot control, eye-hand calibration and coordination, precise digital optical measurements, photogrammetry, and robot navigation using vision. His special interests include geometrical aspects of computer vision, among others, camera systems calibration, scene reconstruction from images, 3D data acquisition and processing, and panoramic vision.

At the Department of Cybernetics, he is a lecturer of computer vision and robotics. At the Center for Machine Perception, he is involved in a number of research projects funded by the Grant Agency of the Czech Republic as well as by European Union grants, among others, *RECCAD - Reconstruction and Analysis of Complex Objects for Building CAD Models Based on Measured Data*, EU Copernicus No. 1068/94, and *Representation of 3-D Scene by 2-D Images*, GACR No. 102/97/0855. He lead projects *Construction of Complete 3D Models from Range Images*, GACR No. 102/97/0480; *OCAMS - Optimal Model Selection for 3D Data Segmentation*, Czech Ministry of Education 4/11/AIP CR; *OMNIVIEWS - Omni-directional Visual System*, EU Fifth Framework Programme project No. 1999-29017, and currently is the responsible investigator *OMVI - Omnidirectional Vision*, GACR No. 102/01/0971.

In 1996, he co-founded the spin-off company Neovision ([www.neovision.cz](http://www.neovision.cz)), which is specialized in industrial and medical applications of computer vision and image processing techniques. He assisted at the development of a digital profile projector, optical recognition of Braille prints, and various inspection tasks using vision.

Tomáš Pajdla is a member of IEEE, ACM, and Czech Pattern Recognition Society. He published more than 20 scientific works at prestigious conferences. In 1998 he was awarded ÖAGM Prize 1998 for the best paper [6] of ÖAGM Conference in Austria. He was invited to give more than 10 invited lectures at various workshops, seminars, and conferences.

## Selected publications

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- [4] Tomáš Pajdla and Luc Van Gool. Matching of 3-D curves using semi-differential invariants. In *5th International Conference on Computer Vision*, pages 390–395, Cambridge, USA, June 1995. IEEE Computer Society Press.
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- [6] Tomáš Werner, Tomáš Pajdla, and Václav Hlaváč. Oriented projective reconstruction. In M. Gengler, M. Prinz, and E. Schuster, editors, *Pattern Recognition and Medical Computer Vision: 22-nd Workshop of the Austrian Association for Pattern Recognition (ÖAGM/IAPR)*, pages 245–254, Wien, Austria, May 14–15 1998. Österreichische Computer Gesellschaft.
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- [10] Tomáš Werner, Tomáš Pajdla, and Václav Hlaváč. Efficient rendering of projective model for image-based visualization. In *Proceedings of the 14th International Conference on Pattern Recognition, Brisbane, Australia*, pages

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- [11] Tomáš Pajdla and Václav Hlaváč. Zero phase representation of panoramic images for image based localization. In Franc Solina and Aleš Leonardis, editors, *8-th International Conference on Computer Analysis of Images and Patterns*, number 1689 in Lecture Notes in Computer Science, pages 550–557, Tržaška 25, Ljubljana, Slovenia, September 1999. Springer Verlag.
- [12] Martin Urban, Tomáš Pajdla, and Václav Hlaváč. Projective reconstruction from n views having one view in common. In Bill Triggs, Richard Szeliski, and Andrew Zisserman, editors, *Vision Algorithms: Theory & Practice*, LNCS, Berlin, Germany, September 2000. Springer.
- [13] Tomáš Pajdla, Tomáš Svoboda, and Václav Hlaváč. Epipolar geometry of central panoramic cameras. In Ryad Benosman and Sing Bing Kang, editors, *Panoramic Vision : Sensors, Theory, and Applications*, pages 85–114. Springer Verlag, Berlin, Germany, 1 edition, 2001.
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