

Curriculum Vitae

Libor Kubečka

Personal Details

Nationality: Czech
Date of birth: 02.06.1980
Permanent address: Hřbitovní 1655/44, Nový Jičín, 741 01
Marital status: single
Email: libor@kubecka.info
Web: <http://www.kubecka.info>
Tel: +420 604 149 369



Education background

2003 to date PhD. Student, Brno University of Technology, Department of Biomedical Engineering. Dissertation thesis theme: Restoration, analysis and processing of multimodal ophthalmic image data.

1998 – 2003 Master Degree in control, measurement and instrumentation with honors (Brno University of Technology, Department of Control and Instrumentation), Brno. Thesis theme: Advanced image registration for ophthalmologic application. Final exam: Control theory and artificial intelligence, technical instrumentation, measurement.

1991 – 1998 GCE at the grammar school Nový Jičín, Nový Jičín, ČR (specializing in science and maths) with honors.

Work Experience

July 2005 to date Research center Data-Algorithms-Decision Making (dar.site.cas.cz). Development and implementation of image processing algorithms (numerical optimization, B-splines, FEM). Command line application for 2D elastic image registration (Win32, Linux). Application for registration, analysis and visualization of 3D retinal images (Win 32, MFC, graphics 2D and 3D, Open GL, DLLs.). Command line application for automatic image shading correction (Win32, Linux).

Feb. to May 2004 Part time job with internet company w4b.cz (web for business). Development and integration of publication system modules – Image gallery, Message Board System. (Apache, PHP, MySQL, CVS).

Computer Skills

Programming Languages: ANSI C, C++ with MFC, STL, Assembler (Atmel AVR, HC11), Object Pascal.

Web Technologies: HTML, CSS, PHP, JavaScript, Database systems (MySQL).

Software: Matlab/Simulink/Femlab, Microsoft Visual Studio .Net 2003 (MFC), Borland C++ Builder/Delphi, Word, Excel, WinCVS.

Operating Systems: Windows, Linux (Mandrake, basic knowledge of RTLinux), POSIX.

Foreign Languages

English: Intermediate.
German: Pre-Intermediate.
Russian: Beginner.

Other Skills

Teaching practice: C/C++ Programming, Signal and image processing courses, student projects leading.
Driving licence since 1998.

Extracurricular Activities

Interests: Mountain and rock climbing, traveling, playing guitar, sport, architecture, literature.

Most important publications

- [1] KUBEČKA, L., JAN, J., KOLÁŘ, R., JIŘÍK R.: Improving quality of autofluorescence images using non-rigid image registration In CD Proceedings of the EURASIP conference EUSIPCO 2006. Florencia: EUSIPCO 2006, 2006, to appear
- [2] KUBEČKA, L., KOLÁŘ, R., JAN, J., JIŘÍK R.: Retrospective Illumination Correction of Retinal Images In CD Proceedings of the EURASIP conference BIOSIGNAL 2006. Brno: BIOSIGNAL 2006, 2006, to appear
- [3] CHRÁSTEK, R., NIEMANN, H., KUBEČKA, L., JAN, J., DERHARTUNIAN, V., MICHELSON, G.: Optic Nerve Head Segmentation in Multimodal Retinal Images In Proceedings of SPIE 2005 Conf. San Diego. The International Symposium on Optical Science and Technology, SPIEs Annual Meeting, Wave-Optical Systems. Bellingham: SPIE, Bellingham, WA, 2005, s. 1604 - 1 615, ISBN 0819457302
- [4] KUBEČKA, L., JAN, J. Registration of Bimodal Retinal Images - improving modifications In Proc. 26th Internat. Conf. IEEE-EMBS. 26th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. San Francisco: IEEE, 2004, s. 1695 - 1 698, ISBN 0-7803-8440-7

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