

CURRICULUM VITAE

Ing. Pěnička Martin

- Date of birth** 25. 3. 1976, married, 1 son Ondřej
- Education**
- 1990 – 1994 Grammar school in Jičín
 - 1994 – 1999 MSc. - CTU Prague, Faculty of Transportation Sciences
 - 1999 – 2006 PhD. - CTU Prague, Faculty of Transportation Sciences
 - summer 2000 Summer school at Milwaukee School of Engineering, and Rockwell Automation, Milwaukee, USA
- Previous Jobs**
- Sep.99–Sep.02 PhD. studies at Czech Technical University Prague
 - Feb.02–Oct.02 Research Assistant at Danish Technical University, DK
 - Nov.02–Jul.03 Research Assistant at Czech Technical University, CZ
 - Aug.03–Oct.03 Research Assistant at Danish Technical University, DK
 - Nov.03–Jan.04 Research Assistant at Czech Technical University, CZ
 - Feb.04–Jun.04 Research Assistant at Danish Technical University, DK
 - Jul.04– Research Assistant at Czech Technical University, CZ
- Languages**
- English** – very good knowledge
– passed exam First Cambridge Certificate of English
- Russian** – good knowledge
- German** – elementary knowledge
- Research interests**
- 1996 – 1997 Interested in computer image recognition
– Road Sign Recognition Project
 - 1998 – 1999 Thesis on computer controlled railway level-crossing.
 - 1999 – 2002 Postgraduate studies at Faculty of Transportation Sciences, department of Applied Mathematics specialized on large-scale system with application on railway transport - interlocking plants integration and Software Application for Automatic Train Planning and Scheduling.
 - 2002 – 2006 Formal software development methods in Railways, partly done at Danish Technical University, Denmark at Computer Science, Information and mathematical modeling. The work was paid by EU Projects AMORE and CoLogNet.

**Current Principal
Activities:**

Administration of open research consortium TRain (The Railway domain),
see <http://www.railwaydomain.org>

Establishing Czech association for rail transport, similar to Dutch
"RailForum" and German "Allianz pro Schiene"

Lecturing at CTU: "Modeling of systems and processes"

Work in EU Projects

AMORE (Algorithmic Methods for Optimising Railways in Europe)

CoLogNet (The European Computational Logic NETWORK Effort)

**Principal
Publications**

Pěnička, M., Towards a Theory of Railways
[PhD Thesis]. Praha: ČVUT, Fakulta dopravní, 2006. 202 s.

Penicka, M. - Bjorner, D.: From Railway Resource Planning to Train
Operation. In Building the Information Society. Norwell, MA: Kluwer
Academic Publishers, 2004, s. 629-636. ISBN 1-4020-8156-1.

Bjorner, D. - George, C.W. - Haxthausen, A.E. - Madsen, C.K. - Holmslykke,
M. Penicka.: "UML-ising" Formal Techniques. In Lecture Notes in Computer
Science. Heidelberg: Springer, 2004, s. 423-450. ISBN 3-540-23135-8.

In total about 20 publications so far.

Contacts

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