

Curriculum Vitae



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Computer Science MSc, PhD

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Biographical Data:

Date of birth **20 / 01 / 1976**
Place of birth **Sátoraljaújhely, Hungary**
Citizenship **Hungarian**

Degrees:

2006 **PhD naturalization in Hungary by University of Debrecen**
ID: 12/2006. PhDh
1999-2005 **PhD in Computer Science, RISC-Linz, Johannes Kepler University Linz, Austria.**
Title: Solving and Simplifying the Propositional Satisfiability Problem by Sub-Model Propagation
1994-1999 **MSc in Computer Science, University of Arts and Sciences "Kossuth Lajos", Debrecen, Hungary.**
Specialization: Database handling,
Minor: Object-Oriented Programming

Positions:

2004 - **CEO of SAC Informatics Ltd.**
2009- **head of Computer Science Department, EKC**
2008- **Leader of the web-programmer vocational training, EKC**
2007-2009 **Assigned head of Computer Science Department, EKC**
2009- **College Docent, Computer Science Department, EKC**
2005-2009 **Assistant professor, Computer Science Department, EKC**
2003-2005 **Assistant lecturer, Information Technology Department, EKC**

Long term visits and Scholarships:

June 2009 **Aktion Scholarship** of Austro-Hungarian "Aktion" Foundation, 1 month
August 2004 **Aktion Scholarship** of Austro-Hungarian "Aktion" Foundation, 1 month
February 2001 – July 2001 **Aktion Scholarship** of Austro-Hungarian "Aktion" Foundation, 6 months
1999-2001, 2002-2003 **Scholarship of the Upper-Astrian Gevornment** „For Young Researchers”
October 1996 - **Tempus Scholarship**, Universität-GH Paderborn (Germany),
February 1997 Theme: Problems of modulo arithmetics.
1996 **Award Scholarship of Hungarian Republic**

Awards:

21.dec.2008 **“For the Eszterházy Károly College / Agria orat et docet” Silver Medal,**
Lyceum Pro Scientiis Endowment
12.dec.2007 **The most successful coach** at IBM 48 hours programming competition
11.may.2006 **“Future of Science” Award,** Abacus Endowment; Mathematics and
Informatics Institute, Eszterházy Károly College
2002 **Excellent Talk Award,** CSCS Conference, Szeged for the talk:
Investigation of Binary Representations of SAT especially 2-Literal
Representation

1999 **OTDK** (National Scientific Student Conference and Competition), final turn: **special award** (1999. May).
Theme: Development of server-client applications in Java. Managing databases.

1998 **Pro Regione Award**, University of Debrecen

1994 **2. place** as a member of the Földes-Szinva Net team in the Second National University Level **24 hours Programmer Competition**

Teaching experience:

2008 - **University of Miskolc**, as guest lecturer, subject: Design Patterns

2003 - **Eszterházy Károly College**, as faculty member, subjects: Artificial Intelligence, Symbolic Logic, Programming 1-2., Algorithms, Software engineering, Programming Technologies

2001/2002 I. semester **University of Debrecen**, as PhD student, subject: Assembler

1998-1999 **Rákóczi György Secondary School**, Derecske, as lecturer, subjects: Programming, Computer Graphics

1997-1999 **University of Arts and Sciences "Kossuth Lajos"**, Debrecen, as demonstrator, subjects: Programming 1-2.

Research interest:

SAT problem

The three most important publications:

1. **Multi-Domain Logic and its Applications to SAT**, SYNASC'08, IEEE Computer Society Press, 3-8, 2008. Co-author: T. Jebelean.
2. **Simplifying the propositional satisfiability problem by sub-model propagation**, Annales Mathematicae et Informaticae 35, 75-94, 2008. Co-authors :L. Csöke, G. Kovásznai.
3. **Solving the Resolution-Free SAT Problem by Hyper-Unit Propagation in Linear Time**, Annals of Mathematics and Artificial Intelligence 43(1-4), 129-136, 2005.

Object-Oriented Programming and Design

The three most important publications:

1. **Requirement analysis and a database model for the project EGERFOOD Food Safety Knowledge Center**, Proceedings of ICAI-2007, Volume I. pp. 15-23, 2007. Co-author: T. Radványi.
2. **Understanding Design Patterns as Constructive Proofs**, Proceedings of ICAI-2004, Volume II. pp. 173-182, 2004. Co-author: Sz. Márien.
3. **Metamodels in generation of UML using NLI-based dialog**, Proceedings of 5th International Symposium on Applied Computational Intelligence and Informatics (SACI 2009), pp. 29-34, 2009. Co-authors: L. Kovács, G. Kovásznai.

Scientific projects:

2009-2010 Austro-Hungarian S&T project, **project leader** of the Hungarian side, title: **Introducing Syntactical Constraints in Object-Oriented Programming Supporting Design Pattern Principles**

2007-2008 Austro-Hungarian S&T project, title: **Analyzing Real-Time Systems by Combining Temporal Logic and Statistical Models**

2007- Member of the **EgerFood Food Safety Knowledge Center**

2002 Austro-Hungarian S&T project, title: **Integrating Temporal Specifications as Runtime Assertions into Parallel Debugging Tools**

Date: 08.08.2010.