

# CURRICULUM VITAE

MILAN BANKOVIĆ

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## Address

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## Personal Details

Gender: Male  
Date of birth: May 3rd, 1982  
Place of birth: Petrovac, Serbia  
Citizenship: Serbian

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## Positions

**2017–present** Assistant professor at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

**2020–2022** Guest teacher at School of applied technical sciences, Požarevac

**2016–2020** High school teacher in Computer science gymnasium, Belgrade

**2010–2017** Teaching assistant at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

**2007–2010** Junior teaching assistant at the Department for Computer Science, Faculty of Mathematics, University of Belgrade.

Courses taught (as a professor at Faculty of Mathematics):

- Automated reasoning
- Introduction to computer organization and architecture
- Computer architecture
- Compilation of programming languages

- Web programming
- Constraint programming

Courses taught (as a teaching assistant at Faculty of Mathematics):

- Introduction to programming (programming language C)
- Microprocessors (IA-32 and ARM assembly language)
- Introduction to computer organization
- Software development (C# programming, ASP.NET)
- Advanced computer architecture (Verilog HDL)
- Automated reasoning
- Introduction to computer architecture
- Parallel algorithms

Courses taught (as a guest teacher at School of applied technical sciences):

- Operating systems
- Computer networks administration

Courses taught (as a high school teacher in Computer science gymnasium):

- Computer systems
- Applications of computers (Matlab/Octave software package)

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## Other professional activities

- Coordinator for relations of the Faculty of Mathematics with the industry (2018/19)
  - Administration of *Linux* servers used to support teaching and scientific activities at Faculty of Mathematics
  - Participation in computer programming training programs for elementary and secondary school pupils
  - Participation in training programs for secondary school informatics teachers
  - Mentor for 6 completed master's thesis in Computer Science and 3 master's thesis in progress
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## Education

**10/2007–12/2016** PhD studies at Department of Computer Science, Faculty of Mathematics, University of Belgrade; GPA 10.00 (on the scale from 6.00 to 10.00). Doctoral dissertation with subject "Improving SMT solvers using CSP techniques and parallelization techniques" defended on December 8, 2016.

**10/2001–12/2006** Undergraduate studies at Department of Computer Science, Faculty of Mathematics, University of Belgrade; graduated with GPA 9.93 (on the scale from 6.00 to 10.00).

**09/1997–06/2001** Secondary School "Nikola Tesla" in Kostolac; school finished with top average mark, was awarded the best student of the generation.

**09/1989–06/1997** Elementary School "Bata Bulić" in Petrovac; school finished with top average mark, was awarded the best student of the generation.

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## Research interests

- Automated reasoning
  - SAT and SMT solvers and applications
  - Constraint programming
  - Interactive theorem proving
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## Summer schools

- SAT/SMT Summer School 2012. Trento, Italy, 12-15 June. 2012.
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## Participation in international scientific meetings

- *Federated Logic Conference – FLOC 2010*. Edinburgh, UK, 9-21 July. 2010.
  - *Theory and Applications of Satisfiability Testing – SAT 2012*. Trento, Italy, 17-20 June. 2012.
  - *Federated Logic Conference – FLOC 2022*. Haifa, Israel, July 31 - August 12. 2022.
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## Participation in domestic scientific meetings

- *Second Workshop on Formal and Automated Theorem Proving and Applications*. Belgrade, January 30 - January 31, 2009.
  - *COST Action IC0901 WG1 and WG2 Meeting and Third Workshop on Formal and Automated Theorem Proving and Applications*. Belgrade, January 29- 30, 2010.
  - *Fourth Workshop on Formal and Automated Theorem Proving and Applications*. Belgrade, February 4-5, 2011.
  - *Fifth Workshop on Formal and Automated Theorem Proving and Applications*. Belgrade, February 3-4, 2012.
  - *Workshop Progress in Decision Procedures: From Formalisations to Applications*. Belgrade, March 30, 2013.
  - *YU INFO 2021*. Kopaonik, March, 2021.
  - *XII Symposium „Math and Applications”*. Belgrade, Serbia, December 2022.
  - *Automated Deduction in Geometry – ADG 2023*, Belgrade, Serbia, September 20-22, 2023.
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## Publications in journals indexed by Thomson Reuters (SCI)

- **Milan Banković**. *Automation of triangle straightedge-and-compass constructions using automated planning*. *Annals of Mathematics and Artificial Intelligence*. 2025. (M22)
  - **Milan Banković**, Ivan Drecun, Filip Marić. *A proof system for graph (non)-isomorphism verification*. *Logical Methods in Computer Science*. 2023. (M23)
  - **Milan Banković**, Filip Marić. *Faradžev Read-type enumeration of non-isomorphic CC systems*. *Computational Geometry*. 2021. (M23)
  - **Milan Banković** et al. *Teaching graduate students how to review research articles and respond to reviewer comments*. *Advances in Computers*. 2020. (M22)
  - **Milan Banković**. *Parallelizing simplex within SMT solvers*. *Artificial Intelligence Review*. 2017. (M21)
  - **Milan Banković**. *Solving finite-domain linear constraints in presence of the alldifferent*. *Logical Methods in Computer Science*. 2016. (M22)
  - **Milan Banković**. *Extending SMT solvers with support for finite domain alldifferent constraint*. *Constraints*. 2016. (M23)
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## Talks on international scientific meetings

- **Milan Banković**, David Šćepanović. *Trail saving in SMT*. Federated Logic Conference 2022. (International Workshop on Satisfiability Modulo Theories - SMT2022). Haifa, Israel, July 31 - August 12, 2022.
  - **Milan Banković**. *ArgoSMTe: an SMT-LIB 2.0 compliant expression library*. Pragmatics of SAT 2012, Trento, Italy.
  - **Milan Banković**, Filip Marić. *Alldifferent constraint solver in SMT*. International Workshop on Satisfiability Modulo Theories - SMT 2010, Edinburgh, UK.
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## Talks on domestic scientific meetings

- **Milan Banković**. *Automation of Triangle Ruler-and-Compass Constructions Using Constraint Solver*. Automated Deduction in Geometry – ADG2023. Belgrade, Serbia, September 20-22, 2023.
  - **Milan Banković**. *Automated solving of Sokoban puzzle using artificial intelligence*. YU INFO 2021, Kopaonik, Serbia. 2021.
  - **Milan Banković**, Filip Marić. *Parallelization of BCP in DPLL-based SAT solvers*. Fifth Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, Serbia, 2012.
  - **Milan Banković**, Filip Marić. *ArgoSMTEExpression: an SMT-LIB 2.0 compliant expression library*. Fourth Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, Serbia, 2011.
  - **Milan Banković**, Filip Marić. *An SMT solver for the theory of alldifferent*. Second Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, Serbia, 2009.
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## Participation in scientific projects

**2009-2010** Project 144030 funded by Serbian Ministry of Science.

**2010-present** Project 174021 funded by Serbian Ministry of Science.

**2009-2013** International project COST (EU) IC0901 – ”Rich-Model Toolkit – An Infrastructure for Reliable Computer Systems”

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## Languages

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| Serbian | native |
| English | fluent |

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## Other skills

- Strong background in mathematics (analysis, algebra, logic, geometry, numerics and statistics)
  - Programming languages: *C*, *C++*, *Perl*, *PHP*, *Java*, *JavaScript*, *C#*, *Haskell*
  - Web technologies: *HTML5/CSS3*, *jQuery*, *LAMP*, *ASP.NET*
  - Assembly languages: *x86*, *x86-64* and *ARM* architectures.
  - *Verilog* hardware description language.
  - *Matlab/Octave* software package for scientific computing.
  - Databases. *SQL* query language.
  - *Isabelle/HOL* interactive theorem prover.
  - *UNIX/Linux* advanced user.
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Belgrade, March, 2025.