

# CURRICULUM VITAE

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## 1 In Brief

**Name:** Predrag (Đorđe) Janičić

**Date and place of birth:** December 9, 1968, Priština, Serbia, Yugoslavia

**Education:** BSc (1993), MSc (1996) and PhD (2001) in Computer Science from Faculty of Mathematics, University of Belgrade [[details](#)]

**Position:** Full professor at Faculty of Mathematics, University of Belgrade [[details](#)]

**Selected awards:** First-placed at Yugoslav federal competition in mathematics (1987), Best student award of University of Belgrade (1993), City of Belgrade Award (2004). [[details](#)]

**Research field:** Automated reasoning and intelligent mathematical software. [[details](#)]

**Fellowships/Grants:** British Scholarship Trust, EPSRC, Coimbra Group Hospitality Scheme, DAAD, OAD, Egide/Pavle Savic, COST, SNF SCOPES, Ministry of Science of Serbia [[details](#)]

**Research Visits:** U Edinburgh, U Birmingham, U Heriot-Watt (Edinburgh), U Cambridge, TU Berlin, U Genova, U Coimbra, U Linz, U Graz, U Rome "La Sapienza", EPFL (Lausanne), U Strasbourg [[details](#)]

**Publications:** 7 books,  $\approx$  50 peer-reviewed articles in journals (JAR, MLQ, LMCS, ICGA, ...) and conferences (IJCAR, CADE, FROCO, ICMS, CALCULEMUS,...) [DBLP profile](#)/ [Google Scholar profile](#)/ [MAS profile](#)/ [ORCID profile](#) [[details](#)]

**Invited talks:** RSNM 2009, CECiiS 2011, SuRI 2011, CADGME 2014, ADG 2016, LAP 2018. [[details](#)]

**Talks and conferences:**  $\approx$  110 talks at conferences, workshops, and seminars [[details](#)]

**Program committee member:** ADG 2010/2012/2014, CADE-24 (2013), CADGME 2009/2010/2012, CIBM 2013/2014/2015, FM 2009, GCR 2010/2011/2012, SCDG 2011, THedu 2012, PDPAR 2003/2005, PLMMS 2009. [[details](#)]

**Workshop Chair:** FATPA 2008/2009/2010/2011/2012, PDP 2013 [[details](#)]

## 2 Education and Degrees

**Oct 1996 – Jan 2001** Doctor of Philosophy in Computer Science (PhD) Department of Computer Science, Faculty of Mathematics, University of Belgrade.

PhD Thesis: "[Building-in Decision Procedures into Theorem Provers](#)"; advisor: prof. Žarko Mijačlović (Univ. of Belgrade), coadvisor prof. Alan Bundy (Univ. of Edinburgh)

**Oct 1993 – July 1996** Master of Science (MSc), Department of Computer Science, Faculty of Mathematics, University of Belgrade; grade point average 10.00.

Master's thesis: "[One Method for Automated Geometry Theorems Proving](#)" (advisor: prof. Zoran Lučić)

**Oct 1988 – June 1993** Bachelor of Science (BSc), Department of Computer Science, Faculty of Mathematics, University of Belgrade; maximal grade point average – 10.00 (out of 10.00).

Final thesis: "Acting of Isometry Groups on Hyperbolic Plane — Computational Approach"; advisor prof. Z. Lučić.

**Sept 1985 – June 1987** Mathematical-technical high school "Miladin Popović", Priština. Grade point average 5.00 (out of 5.00).

### 3 Professional History

**Sept. 1987–Sept. 1988** Obligatory army service

**Oct 1993 – Jan 2001** Teaching assistant at the Department of Computer Science, Faculty of Mathematics, University of Belgrade.

**Jan 2001 – May 2008** Assistant professor at the Department of Computer Science, Faculty of Mathematics, University of Belgrade.

**May 2008 – Mar 2015** Associate professor at the Department of Computer Science, Faculty of Mathematics, University of Belgrade.

**Mar 2015 –** Full professor at the Department of Computer Science, Faculty of Mathematics, University of Belgrade.

### 4 Awards and Distinctions

**1982-1987**

- 1st place in regional competitions in mathematics for six times;
- Participation in Yugoslav Federal Competitions in Mathematics for six times; in top seven for five times (1983–1987); 1st place in the federal competition in 1987;
- 2nd prize in Balkan Olimpiad in Mathematics in 1987. (Athens, Greece <http://srb.imomath.com/index.php?options=19&lmm=1>);
- Participation at the International Mathematics Olimpiad in 1987. (Havana, Cuba [https://www.imo-official.org/participant\\_r.aspx?id=10606](https://www.imo-official.org/participant_r.aspx?id=10606)).

**1985-1986**

- 1st place in regional competitions in physics for two times;
- Participation in Yugoslav Federal Competitions in Physics for two times, 4st place in 1985;
- Participation in Balkan Olimpiad in Physics in 1986. (Plovdiv, Bulgaria).

**1985-1987** Two times (1985/86 and 1986/87) annual Mathematical–Physical Magazine’s (Zagreb) First Prize — “Stjepan Skreblin Award” for solutions of mathematical problems.

**1989-1990** GENEX Fellowship

**1990-1993** Fellowship from Foundation for especially talented students of Republic of Serbia (first-placed on qualification tests).

**1991** University of Belgrade Prize for a reasearch project — “Acting of Planar Discontinuous Isometry Groups - Computational Approach”.

**1993** University of Belgrade Prize for a research project — “EUCLID - Geometry Theorems Prover” (co-author S.Kordić).

**1994** University of Belgrade Prize for the best student graduated from the Faculty of Mathematics in 1993. (one of two students with GPA 10.0 graduated from the University of Belgrade in 1993).

**2005** City of Belgrade Award for contributions in education.

## 5 Research Interests

Automated reasoning and intelligent mathematical software, especially:

- Automated reasoning in geometry;
- Intelligent geometry software;
- Automated theorem proving in coherent logic;
- SAT and SMT solving and applications;

## 6 Grants, Projects, and Fellowships

**1996** Grant by The British Scholarship Trust (UK) for three-months visit to the University of Edinburgh, UK.

**2001/02** EPSRC (UK) Visiting Fellowship grant GR/R52954/01, entitled „Flexible Incorporation of Decision Procedures into LambdaClam Proof-planning System“ for five-months visit to the University of Edinburgh, UK (19670 GBP).

**2002** DAAD (Germany) grant for visit to the Technical University of Berlin, Germany.

**2003–2005** Participation at the project 1379. and 1646. of Ministry of Science of Republic of Serbia.

**2005** CIM/CISUC (Portugal) grant (within the Coimbra Hospitality Scheme) for one-month visit to the University of Coimbra, Portugal.

**2006–2010** Grant 144030 of Ministry of Science of Republic of Serbia (“Automated Reasoning and Data Mining”; grant holder).

**2007** OAD (Austria) grant for visit to the University of Graz, Austria.

**2007** OAD projekat 3-01-2007 “Technical and Social Challenges related to Collaborative E-Learning in Central and South Eastern European Countries”, (rukovodioci projekta: Denis Helic i Walther Neuper, Tehnički univerzitet u Gracu

**2009** OAD (Austria) grant for visit to the University of Linz, Austria.

**2010–2013** Swiss fund SNF’s SCOPES grant IZ73Z0\_127979 for Joint Research Project (“Decision Procedures: from Formalizations to Applications”; with prof. Viktor Kunčak, University of Lausanne) (100000 CHF).

**2009–2013** COST (EU) project IC0901 „Rich-Model Toolkit - An Infrastructure for Reliable Computer Systems“ (member of Management Committee).

**2011–2018** Grant 174021 of Ministry of Science of Republic of Serbia (“Automated Reasoning and Data Mining”; grant holder).

**2012–2013** Serbian-French Technology Co-Operation grant EGIDE/“Pavle Savić” 680-00-132/2012-09/12 (“Formalization and automation of geometry”; with prof. Julien Narboux, University of Strasbourg) (10000 EUR; accepted 17 out of 38 submitted proposals).

## 7 Visits and Talks

### 7.1 Visits

1. Mathematical Reasoning Group, School of Informatics, University of Edinburgh, United Kingdom October 1—December 31, 1996.

2. Mathematical Reasoning Group School of Informatics, University of Edinburgh, United Kingdom  
June 1—July 31, 2001.
3. Mathematical Reasoning Group, University of Birmingham, United Kingdom  
July 7, 2001.
4. Mathematical Reasoning Group, School of Informatics, University of Edinburgh, United Kingdom  
May 11—August 11, 2002.
5. Automated Reasoning Group, University of Cambridge, United Kingdom  
June 3—9, 2002.
6. Dependable Systems Group, Harriot-Watt University, Edinburgh, United Kingdom  
June 21, 2002.
7. Mathematical Institute, Technical University, Berlin, Germany  
November 24 — December 1, 2002.
8. Mechanized Reasoning Group, University of Genoa, Italy  
June 2—9, 2003.
9. Faculty of Mathematics, University of Coimbra, Coimbra, Portugal  
September 1—September 30, 2005.
10. RISC institute, University of Linz, Hagenberg, Austria  
May 10 — May 18, 2006.
11. University of Linz and the University of Graz, Austria  
June 26 — July 02, 2007.
12. Department of Mathematics, University of Rome „La Sapienza“, Italia  
November 9 — November 16, 2008.
13. RISC Institute, University of Linz, Hagenberg, Austria  
July 09 — July 14, 2009.
14. EPFL, Laussane, Switzerland  
June 20 — June 24, 2011.
15. EPFL, Laussane, Switzerland  
July 11, 2011.
16. University of Strasbourg, France  
July 16-22, 2012.

## 7.2 Summer Schools

1. The European Summer School on Logic, Linguistics and Information (ESSLLI '96), Prague, Czech Republic, June 1996.
2. [Summer School and Workshop on Proof Theory, Computation and Complexity](#), University of Dresden, Germany, June 29–July 6, 2003.
3. [Summer School and Workshop on Proof Theory and Automated Theorem Proving and PCC Workshop](#), University of Dresden, Germany, June 13—June 19, 2004.

### 7.3 Invited Lectures

1. „Inteligentni geometrijski softver“  
Republički seminar o nastavi matematike i računarstva u osnovnim i srednjim školama  
Beograd, 17.01.-18.01.2009. (17.01.2009.)  
[http://www.dms.org.rs/index.php?action=seminars\\_2009](http://www.dms.org.rs/index.php?action=seminars_2009)
2. „Automated Reasoning: Some Successes and New Challenges“  
22nd Central European Conference on Information and Intelligent Systems, CECiS 2011  
September 21st - 23rd, Varaždin, Croatia, 2011.  
<http://archive.ceciis.foi.hr/app/index.php/ceciis/index/pages/view/ProceedingsArchive2011>
3. „Uniform Reduction to SAT and SMT“  
Summer Research Institute  
EPFL, Lausanne, Switzerland, June 6–24, 2011.  
<http://suri.epfl.ch/past/2011>
4. „Challenges for the Next Generation Mathematics Education Software“  
Conference on Computer Algebra and Dynamic Geometry Systems in Mathematics Education -  
CADGME 2014.  
Halle, Germany, September 26-29, 2014.  
<http://cadgme2014.ceremat.org/>
5. „Geometrisation of Geometry“  
Automated Deduction in Geometry – ADG 2016.  
June 27-29, 2016, Strasbourg, France  
<http://icube-web.unistra.fr/adg2016>
6. „Automated Reasoning in Geometry“  
Logic and Applications 2018 – LAP 2018  
September 24-28 (25), 2018, Dubrovnik, Croatia  
<http://imft.ftn.uns.ac.rs/math/cms/LAP2018>

### 7.4 Talks

1. „Izabrani zadaci sa matematičke olimpijade 1987.“  
Republički seminar za nastavu matematike  
Beograd, 01.1988.
2. (zajednički rad sa S.Kordićem)  
„Euklid — dokazivač geometrijskih teorema“  
Seminar za logiku Matematičkog instituta  
Beograd, 10.1993.
3. (zajednički rad sa S.Kordićem)  
„Euklid — dokazivač geometrijskih teorema“  
Jednodnevna seminar-konferencija iz matematičke logike  
Matematički institut, Beograd, 03.1993.

4. (zajednički rad sa S.Kordićem)  
 „Euklid — dokazivač geometrijskih teorema“  
 Smotra mladih istraživača Srbije  
 Beograd, 12.1993.
5. (zajednički rad sa S.Kordićem)  
 „Euklid — dokazivač geometrijskih teorema“  
 Seminar Katedre za računarstvo Matematičkog fakulteta  
 Beograd, 03.1994.
6. „Lingvističke osnove generisanja teksta (prikaz knjige Laurance Danlos: „The Linguistic Basis of Text Generation“ Cambridge University Press 1987)“  
 Seminar Računarska lingvistika  
 Matematički fakultet, Beograd, april 1994.
7. „GAME-MAKER — ilustracija koncepta programske ljuske“  
 Konferencija SINFON (Studentski radovi u informatici i računarskim naukama)  
 Zlatibor, 29.10.-02.11.1994 (02.11.1994.)
8. „Dejstva diskontinualnih grupa na hiperboličku ravan“  
 Odeljenje za matematiku SANU  
 Beograd, 17. mart 1995.
9. (Sa S.Kordićem)  
 „Euclid — geometry theorems prover“  
 Conference „Logic, Algebra and Discrete Mathematics“  
 Niš, 14.04.-16.04.1995 (16.04.1995.)
10. „O logičkim igrama“  
 Seminar za matematičku logiku Matematičkog instituta  
 Beograd, 12.05.1995.
11. (Sa S.Kordićem)  
 „Jedan pristup aksiomatskom zasnivanju geometrije“  
 9. Kongres matematičara Jugoslavije  
 Petrovac na moru, 22.05.-27.05.1995 (24.05.1995.)
12. „Apstrahovanje podataka i problema u programiranju logičkih igara“  
 Konferencija LIRA '95 (Logika i računarstvo)  
 Novi Sad, 26.09.-30.09.1995. (28.09.1995.)
13. „Automatsko generisanje filmskih scenarija“  
 Konferencija SINFON „Studentski radovi u informatici i računarskim naukama“  
 Zlatibor, 04.11.-07.11.1995. (02.11.1995.)
14. „Transformatori predikata (prikaz dela knjige E.W.Dijkstra, C.S.Scholten: „Predicate Calculus and Program Semantics“ Springer-Verlag 1990)“  
 Seminar Algoritmika  
 Matematički fakultet, Beograd, decembar 1995

15. „Alfa-beta algoritmi“  
Seminar Algoritmika  
Matematički fakultet, Beograd, mart 1996
16. „One method for automated geometry theorems proving in a human-oriented way“  
Mathematical Reasoning Group Seminar  
Edinburgh, 28.10.1996.
17. „Ugradnja procedura odlučivanja u dokazivač teoreme CLaM“  
Seminar za logiku Matematičkog instituta  
Beograd, 11.04.1997.
18. „(co-authors Alan Bundy, Ian Green)“  
A Comparison of Decision Procedures in Presburger Arithmetic  
Conference LIRA '97 (Logika i računarstvo)  
Novi Sad, 01-04.09.1997. (02.09.1997.)
19. „Korišćenje procedura odlučivanja i stohastičkih gramatika u automatskom dokazivanju teorema“  
Seminar Algoritmika  
Matematički fakultet, Beograd, 17.04.1998.
20. „Stohastičke gramatike za Presburger aritmetiku“  
Seminar Verovatnoća i statistika  
Matematički fakultet, Beograd, 28.05.1998.  
<http://www.stat.matf.bg.ac.rs/Seminar/sem9798.htm>
21. (joint work with A.Bundy)  
„Learning Stochastic Grammars for Presburger Arithmetic“  
Conference „Algebra and Logic VIII“ (section Mathematical Logic)  
Novi Sad, 21.09.-23.09.1998. (21.09.1998)
22. „Crtanje u LaTeX-u bez suza“  
Odeljenje za matematiku SANU  
Beograd, 6. novembar 1998.
23. „Računarstvo i geometrija“  
Republički seminar o nastavi matematike i računarstva '99  
Beograd, 09.01.-12.01.1999. (12.01.1999.)
24. „Promena faze u SAT problemima“  
Seminar za logiku Matematičkog instituta  
Beograd, 14.04.2000.
25. „Prezentacija programa Cinderella (sa Markom Miloševićem)“  
Stručni sastanci Matematičkog fakulteta i Odeljenje za matematiku Matematičkog instituta  
Beograd, 12.05.2000.
26. „Ugradnja procedura odlučivanja u dokazivače teorema“  
Kongres matematičara Jugoslavije  
Beograd, 21-24.01.2001. (22.01.2001)



27. „Procedure odlučivanja i dokazivaci teorema“  
Seminar za logiku Matematičkog instituta  
Beograd, 02.03.2001.
28. (co-author Alan Bundy)  
„Strict General Setting for building decision procedures into theorem provers“  
The International Joint Conference on Automated Reasoning (IJCAR '01)  
Siena, Italy (18.07-24.07.2001), Siena, 20.07.2001.
29. „(S)GS framework for building decision procedures into theorem provers“  
The Mathematical Reasoning Group Seminar  
Division of Informatics, University of Edinburgh, Edinburgh, 28.06.2001.
30. „Building decision procedures into theorem provers“  
Theoretical Computer Science Seminar  
School of Computer Science, University of Birmingham, Birmingham, 13.07.2001.  
[http://events.cs.bham.ac.uk/seminar-archive/theory/theory\\_html.summer01/janicic.html](http://events.cs.bham.ac.uk/seminar-archive/theory/theory_html.summer01/janicic.html)
31. „Implementing GS framework for decision procedures in LambdaClam“  
The Mathematical Reasoning Group Seminar  
Division of Informatics, University of Edinburgh, Edinburgh, 19.07.2001.
32. „Generisanje geometrijskih slika na osnovu formalnog opisa“  
Seminar „Geometrija, obrazovanje i vizuelizacija sa primenama“  
Matematički institut, Beograd, 01.11.2001.
33. „Automatsko rezonovanje: šta računari mogu“  
Laboratorija za eksperimentalnu psihologiju  
Filozofski fakultet, Univerzitet u Beogradu, Beograd, 16.11.2001.
34. „Decision procedures, Presburger arithmetic and complexity issues“  
The Mathematical Reasoning Group Seminar  
Division of Informatics, University of Edinburgh, Edinburgh, 23.05.2002.
35. „A General Setting for the Flexible Combining and Augmenting of Decision Procedures“  
Automated Reasoning Group Lunch Seminar  
University of Cambridge, 06.06.2002.  
<http://www.cl.cam.ac.uk/research/hvg/pastargs.html>
36. „Semiautomatic synthesis of decision procedures“  
The Mathematical Reasoning Group Seminar  
Division of Informatics, University of Edinburgh, Edinburgh, 20.06.2002.
37. „Presentation of (S)GS framework“  
Dependable Systems Group  
Heriot-Watt University, 21.06.2002.
38. „Presentation of GCLC/WinGCLC“  
Mathematical Institute  
Technical University, Berlin, 28.11.2002.

39. (zajednički rad sa Ivanom Trajkovićem)  
 „Paket WinGCLC - prezentacija“  
 Seminar Geometrija, obrazovanje i vizualizacija sa primenama  
 Beograd, 27.02.2003.
40. (joint work with Alan Bundy)  
 „Automatic synthesis of decision procedures: a case study of linear arithmetic“  
 Seminar of Department of Computer Science  
 DIST, University of Genova, Genova, 04.06.2003.  
<http://www.lira.dist.unige.it/limbs/0203/abstracts/janicic.htm>
41. (joint work with Mateja Jamnik)  
 „Can decision procedures be learnt automatically?“  
 Seminar of Mechanized Reasoning Group  
 DIST, University of Genova, Genova, 05.06.2003.
42. (joint work with Alan Bundy and Alan Smaill)  
 „On predicting a grammar of a normal-form“  
 Workshop Proof, Computation, Complexity  
 Dresden, Germany, 17.06.-19.06.2004. (19.06.2004)
43. „WinGCLC — A Workbench for Geometry“  
 CISUC Seminar  
 University of Coimbra, Portugal, September 21, 2005.
44. „GCLC/WinGCLC — A Workbench for Geometry... and More...“  
 Mini workshop on automated theorem proving in geometry  
 University of Linz, Linz, Austria, May 13, 2006.
45. „GCLC – A Tool for Constructive Euclidean Geometry and More than That“  
 International Congress of Mathematical Software (ICMS 2006)  
 Castro Urdiales, Spain, 01.09.-03.09.2006. (01.09.2006.)
46. (joint work with Pedro Quaresma)  
 „GeoThms – A Framework for Constructive Geometry“  
 Workshop on Multimedia Technology for Mathematics and Computer Science Education  
 Belgrade, September 21-24, 2006. (22.09.2006.)  
[http://www.matf.bg.ac.rs/~daad/2006/prelim\\_program\\_sep\\_06.htm](http://www.matf.bg.ac.rs/~daad/2006/prelim_program_sep_06.htm)
47. (joint work with Alan Bundy)  
 „Automatic Synthesis of Decision Procedures: a Case Study of Ground and Linear Arithmetic“  
 Calculemus  
 Hagenberg, Austria, June 27–29, 2007.  
<http://www.risc.jku.at/conferences/Calculemus2007/?content=prog>
48. „GCLC – Recent Developments“  
 Workshop on Geometry and Visualization  
 Belgrade, September 20-22, 2007. (21.09.2007.)  
[http://poincare.matf.bg.ac.rs/~daad/2007/prelim\\_program\\_07.htm](http://poincare.matf.bg.ac.rs/~daad/2007/prelim_program_07.htm)

49. „ARGO Group Presentation“  
Workshop on Formal Theorem Proving and Applications  
Belgrade, January 29 — February 1, 2008. (31.01.2008.)  
<http://argo.matf.bg.ac.rs/events/2008/ftpa2008/ftpa2008.html>
50. „Tutorial on Intelligent Geometrical Software and GCLC“  
Spring School on Geometry and Visualization  
Belgrade, April 19 — 25, 2008. (22.04.2008.)  
<http://www.matf.bg.ac.rs/~daad/SpringSchool08/SpringSchool2008.htm>
51. „Dynamic Geometry Software and the GCLC System“  
Seminari di Geometria Dinamica, Department of Mathematics, University of Rome „La Sapienza“  
Rome, November 11, 2008.  
[http://www.dmmm.uniroma1.it/~giuseppe.accascina/Seminari\\_di\\_Geometria\\_dinamica/](http://www.dmmm.uniroma1.it/~giuseppe.accascina/Seminari_di_Geometria_dinamica/)
52. „Automated Deduction in Geometry within the GCLC System“  
Seminari di Geometria Dinamica/Seminari di Topologia Algebrica e Differenziale, Department of Mathematics, University of Rome „La Sapienza“  
Rome, November 13, 2008.  
[http://www.dmmm.uniroma1.it/~giuseppe.accascina/Seminari\\_di\\_Geometria\\_dinamica/](http://www.dmmm.uniroma1.it/~giuseppe.accascina/Seminari_di_Geometria_dinamica/)  
<http://www.mat.uniroma1.it/ricerca/seminari/topologia/0809.html>
53. „Poseta Univerzitetu u Rimu i prezentacija paketa GCLC“  
ARGO Seminar  
University of Belgrade, December 3, 2008.  
<http://argo.matf.bg.ac.rs/?content=seminar/najave>
54. „Uniformno svodjenje teških problema na SAT“  
ARGO Seminar  
University of Belgrade, February 25, 2009.  
<http://argo.matf.bg.ac.rs/?content=seminar/najave>
55. „Korišćenje lema u algebarskim dokazivačima geometrijskih teorema“  
ARGO Seminar  
University of Belgrade, April 29, 2009.  
<http://argo.matf.bg.ac.rs/?content=seminar/najave>
56. „Automated Geometry Theorem Proving: Readability vs. Efficiency“  
CADGME 2009  
Hagenberg, July 11-13, (July 11), 2009.  
<http://www.risc.jku.at/conferences/cadgme2009>
57. „Presentation of ARGO Group“  
Kick-off Meeting of COST Action IC0901  
Brussels, October 30, 2009.

58. (joint work with Filip Marić)  
 „Uniform Reduction to SAT and SMT“  
 COST Action IC0901 WG1 and WG2 Meeting and Third Workshop on Formal and Automated Theorem Proving and Applications  
 Belgrade, January 29-30, 2010.  
<http://argo.matf.bg.ac.rs/events/2010/fatpa2010/fatpa2010.html>
59. „The Tool GCLC and Links Between Automated Deduction and Dynamic Geometry“  
 Workshop Automatic Deduction and GeoGebra  
 Castro Urdiales, Spain, February 7-10, (February 8), 2010.  
<http://www.ciem.unican.es/proving2010>
60. (with Sana Stojanović, Vesna Pavlović, and Mladen Nikolić)  
 „Ideje o razvoju novog dokazivaca teorema za koherentnu logiku“  
 ARGO Seminar  
 University of Belgrade, March 31, 2010.  
<http://argo.matf.bg.ac.rs/?content=seminar/najave>
61. „Neke novosti iz oblasti geometrijskog rezonovanja i dinamicke geometrije“  
 ARGO Seminar  
 University of Belgrade, May 12, 2010.  
<http://argo.matf.bg.ac.rs/?content=seminar/najave>
62. „An Overview of Automated Reasoning in Serbia“  
 History of Logic in Serbia  
 Belgrade, June 14-15 (June 15), 2010.  
<http://www.mi.sanu.ac.rs/conferences/IST-LOG2010.htm>
63. „Mathematical Visualization Tool GCLC/WinGCLC“  
 The Third School in Astronomy: Astroinformatics — Virtual Observatory  
 Belgrade, June 29—July 01, (June 29) 2010.  
[www.matf.bg.ac.rs/~andjelka/AIV0/](http://www.matf.bg.ac.rs/~andjelka/AIV0/)
64. (joint work with Filip Marić)  
 „Uniform Reduction to SMT“  
 SVARM Workshop  
 Edinburgh, UK, July 20-21 (July 21), 2010.  
<http://richmodels.epfl.ch/svarm10>
65. (joint work with Mladen Nikolić)  
 „DPLL-Based Theorem Prover for Coherent Logic“  
 Alpine Verification Meeting (AVM) / COST IC0901 Meeting  
 Lugano, Switzerland, October 17-18 (October 18), 2010.  
<http://richmodels.epfl.ch/lugano>
66. (zajedničko izlaganje sa Filipom Marićem i Mladenom Nikolićem)  
 „Pregled aktivnosti grupe za automatsko rezonovanje“  
 Seminar Katedre za računarstvo i informatiku  
 Matematički fakultet, January 13, 2011.  
[http://computing.matf.bg.ac.rs/1011\\_zimski.html](http://computing.matf.bg.ac.rs/1011_zimski.html)

67. „Prikaz posete univerzitetu EPFL i učešća na konferenciji SuRI“  
ARGO Seminar  
University of Belgrade, June 29, 2011.  
<http://argo.matf.bg.ac.rs/?content=seminar/najave>
68. (joint work with Vesna Marinković)  
„Automated Solving of Triangle Construction Problems“  
FATPA 2012 Workshop  
Belgrade, February 4-5 (February 5), 2012.  
<http://argo.matf.bg.ac.rs/events/2012/fatpa2012/fatpa2012.html>
69. (joint work with Vesna Marinković)  
„Automated Synthesis of Geometric Construction Procedures“  
SVARM 2012 Workshop  
Tallinn, March 31-April 01 (March 31), 2012.  
<http://pauillac.inria.fr/~herbelin/aipa2012/>
70. (joint work with Filip Marić)  
„Uniformno svodjenje na SAT i SMT“  
Seminar za logiku  
Matematički institut SANU, Beograd, April 27, 2012.
71. (joint work with Ivan Petrović, Zoltán Kovács, Simon Weitzhofer, Markus Hohenwarter)  
„Extending GeoGebra with Automated Theorem Proving by using OpenGeoProver“  
CADGME 2012  
Novi Sad, June 22-24 (June 22), 2012.  
<http://sites.dmi.rs/events/2012/CADGME2012/>
72. (joint work with Mladen Nikolić)  
„CDCL-based Abstract State Transition System for Coherent Logic“  
SVARM-VERIFY Workshop (IJCAR workshop )  
Manchester, June 30-July 01 (July 01), 2012.  
<http://baldur.iti.kit.edu/SVARM-VERIFY-2012/>
73. „GCLC, Construction Problems, Coherent Logic, and all that“  
Seminar of the computer geometry group  
University of Strasbourg, France, July 19, 2012.  
[http://newlsiit.u-strasbg.fr/geometry\\_automation/index.php/Meetings](http://newlsiit.u-strasbg.fr/geometry_automation/index.php/Meetings)
74. (joint work with Sana Stojanović)  
„Automated Generation of Formal and Readable Proofs of Mathematical Theorems“  
SVARM Workshop  
Rome, January 20-21 (January 21), 2013.  
<http://richmodels.epfl.ch/rome13>
75. (plenarno predavanje)  
„SAT i svodjenje na SAT“  
Četvrti simpozijum „Matematika i primene“ 2013  
Beograd, Srbija, 24-25 maj, 2013.  
<http://alas.matf.bg.ac.rs/~konferencija/>

76. (joint work with Marko Maliković)  
 „Proving Correctness of a KRK Chess Endgame Strategy by SAT-Based Constraint Solving“  
 Final COST Action Meeting  
 Madrid, October 17-18 (October 17), 2013  
<http://richmodels.epfl.ch/madrid13>
77. (zajednički rad sa Markom Malikovićem)  
 „Dokazivanje korektnosti strategije za šahovsku završnicu KRK (kralj-top-kralj) svodjenjem na SAT“  
 Seminar Katedre za računarstvo i informatiku  
 Beograd, 5. decembar 2013  
[http://computing.matf.bg.ac.rs/1314\\_zimski.html](http://computing.matf.bg.ac.rs/1314_zimski.html)
78. Predstavljanje rezultata projekta ON174021 *Automatsko rezonovanje i istraživanje podataka* Odeljenje za matematiku MI SANU Beograd, 16. maj 2014.
79. (joint work with Sana Stojanović, Julien Narboux, and Marc Bezem)  
 „A Vernacular for Coherent Logic“  
 Conferences on Intelligent Computer Mathematics – CICM 2014, Track Mathematical Knowledge Management – MKM 2014  
 Coimbra, Portugal, July 7-11, 2014.  
<http://cicm-conference.org/2014/cicm.php?event=&menu=day-schedule>
80. (joint work with Vesna Marinković, and Pascal Schreck)  
 „Solving Geometric Construction Problems Supported by Theorem Proving“  
 10th International Workshop on Automated Deduction in Geometry  
 Coimbra, Portugal, July 9-11, 2014.  
<http://www.uc.pt/en/congressos/adg/adg2014/program/schedule>
81. „Veze SAT-a i geometrije u automatskom rezonovanju“  
 Seminar Odeljenja za matematiku Matematičkog instituta SANU, dvodneni seminar povodom sedamdeset godina Matematičkog instituta  
 Beograd, 11-12 maj (12. maj), 2016.  
[http://www.mi.sanu.ac.rs/novi\\_sajt/colloquiums/programs/mathcoll.may2016.php](http://www.mi.sanu.ac.rs/novi_sajt/colloquiums/programs/mathcoll.may2016.php)
82. „Portfolio Methods in Theorem Proving for Elementary Geometry (joint work with Vesna Marinković, Mladen Nikolić, and Zoltan Kovacs)“  
 Automated Deduction in Geometry – ADG 2016  
 June 27-29, 2016, Strasbourg, France  
<http://icube-web.unistra.fr/adg2016>
83. „Automatsko i interaktivno dokazivanje u geometriji “  
 Seminar za logiku  
 Matematički institut SANU, Beograd, 16.06.2017.  
[http://www.mi.sanu.ac.rs/novi\\_sajt/seminars/programs/seminar1.jun2017.php](http://www.mi.sanu.ac.rs/novi_sajt/seminars/programs/seminar1.jun2017.php)
84. „Sinteza procedura odlučivanja korišćenjem pravila prezapisivanja“  
 Konferencija posvećena prof. Žarku Mijajloviću  
 Beograd, 16-17 (17) novembar 2018.  
[http://www.mi.sanu.ac.rs/novi\\_sajt/research/conferences/zm\\_program.pdf](http://www.mi.sanu.ac.rs/novi_sajt/research/conferences/zm_program.pdf)

In several occasions my work was kindly presented by my co-authors or other colleagues:

1. (joint work with Alan Bundy and Ian Green; presented by Alan Bundy)  
„A comparison of decision procedures for Presburger arithmetic“  
Calcuemus 1997.  
Edinburgh, Scotland, 24 - 26 September, 1997.  
<http://www.calcuemus.net/meetings/edinburgh97/>
2. (joint work with Alan Bundy and Ian Green; presented by Alan Bundy)  
„A Framework for the Flexible Integration of a Class of Decision Procedures into Theorem Provers“  
CADE-16 (FLoC '99  
Trento, Italy, 5.07.-11.07.1999. (7.07.1999)  
<http://www2.informatik.hu-berlin.de/lics/OLD/floc99/index.html>
3. (joint work with Alan Bundy; presented by Alan Bundy)  
„A Flexible Framework for the Combination and Augmentation of Decision Procedures in Theorem Provers“  
CIAO 2001  
Genova, April 2001, Genova.  
<http://dream.inf.ed.ac.uk/events/CIAO/>
4. (joint work with Alan Bundy and Ian Green; presented by Alan Bundy)  
„A comparison of decision procedures in Presberger Arithmetic“  
University of Genova  
Genova, October 2, 2001.
5. (joint work with Alan Bundy and Alan Smail; presented by Alan Bundy)  
„Predicting the BNF of a Normal Form“  
CIAO 2003  
Dagstuhl, April 2003  
<http://www.dfki.de/CIAO-2003/>
6. (joint work with Alan Bundy and Alan Smail; presented by Alan Bundy)  
„On Predicting a Grammar of a Normal Form“  
CIAO 2004  
Genova, April 2004  
<http://dream.inf.ed.ac.uk/events/CIAO/>
7. (joint work with Mateja Jamnik; presented by Silvio Ranise)  
„Can Decision Procedures be learnt automatically? “  
FTP 2003  
Valencia, June 2004.  
<http://rewriting.loria.fr/FTP-2003/valencia/>
8. (joint work with Filip Marić; presented by Cesare Tinelli)  
„SMT in XML clothes“  
PDPAR 2004  
Dublin, July 2004  
<http://www.loria.fr/~ranise/pdpar04/>

9. (joint work with Dejan Jovanović; presented by Dejan Jovanović)  
 „Logical Analysis of Hash Functions“  
 Frontiers of Combining Systems (FroCoS)  
 Vienna, September 19-21, 2005.  
<http://www.logic.at/frocos05/>
10. (joint work with Alan Bundy and Alan Smaill; presented by Alan Bundy)  
 „On Predicting the Grammar of the Normal Form“  
 Deduction Meeting  
 Dagstuhl, October 23-28, 2005.  
[http://drops.dagstuhl.de/opus/volltexte/2006/562/pdf/05431\\_abstracts\\_collection.562.pdf](http://drops.dagstuhl.de/opus/volltexte/2006/562/pdf/05431_abstracts_collection.562.pdf)
11. (joint work with Boris Ajdin, Jelena Novičić, Radmila Stamenčić; presented by Boris Ajdin)  
 „Ray Tracing in Poincare’s Ball Model of Hyperbolic Space“  
 Workshop on Multimedia Technology for Mathematics and Computer Science Education  
 Belgrade, November 10-11, 2005.  
[http://poincare.matf.bg.ac.rs/~daad/work/program\\_nov\\_05.htm](http://poincare.matf.bg.ac.rs/~daad/work/program_nov_05.htm)
12. (joint work with Pedro Quaresma; presented by Pedro Quaresma)  
 „Automated Production of Readable Proofs for Theorems in Euclidean Geometry — poverGCLC & GeoThms“  
 Days in Logic ‘06  
 Coimbra, January 19-21, 2006.  
<http://www.mat.uc.pt/~kahle/dl06/>
13. (joint work Sana Stojanović and Vesna Pavlović; presented by Sana Stojanović)  
 „Formalization and Automation of Euclidean Geometry“  
 Second Workshop on Formal and Automated Theorem Proving and Applications  
 Belgrade, Jan 30-Jan 31, 2009.  
<http://argo.matf.bg.ac.rs/events/2009/fatpa2009/fatpa2009.html>
14. (joint work Mladen Nikolić and Filip Marić; presented by Mladen Nikolić)  
 „Instance-based Selection of Strategies for SAT Solvers“  
 Second Workshop on Formal and Automated Theorem Proving and Applications  
 Belgrade, Jan 30-Jan 31, 2009.  
<http://argo.matf.bg.ac.rs/events/2009/fatpa2009/fatpa2009.html>
15. (joint work Milan Šešum; presented by Milan Šešum)  
 „Uniform Reduction of Cryptographic Problems to SAT“  
 Second Workshop on Formal and Automated Theorem Proving and Applications  
 Belgrade, Jan 30-Jan 31, 2009.  
<http://argo.matf.bg.ac.rs/events/2009/fatpa2009/fatpa2009.html>
16. (joint work with Mladen Nikolić and Filip Marić; presented by Mladen Nikolić)  
 „Instance Based Selection of Policies for SAT Solvers“  
 SAT 2009: Twelfth International Conference on Theory and Applications of Satisfiability Testing  
 Swansea, Wales, United Kingdom, June 30 - July 3, 2009.  
<http://cs-svr1.swan.ac.uk/~csoliver/SAT2009/>



17. (joint work with Filip Marić; presented by Filip Marić)  
„SAT Verification Project“  
TPHOLs 2009: Theorem Proving in Higher Order Logic  
Munich, August 17-20, 2009.  
<https://isabelle.in.tum.de/nominal/activities/tphols09/>
18. (joint work with Filip Marić; presented by Filip Marić)  
„URBiVA: Uniform Reduction to Bit-Vector Arithmetic“  
IJCAR  
Edinburgh, July 16-19, (July 18) 2010.  
<http://www.floc-conference.org/IJCAR-home.html>
19. (joint work with Aleksandar Zeljić; presented by Aleksandar Zeljić)  
„Solving Some NP-complete Problem Instances by Reductions“  
FATPA 2011 Workshop  
Belgrade, February 4-5, 2012.  
<http://argo.matf.bg.ac.rs/events/2011/fatpa2011/>
20. (joint work with Filip Marić, Ivan Petrović, Danijela Petrović; presented by Filip Marić)  
„Formalization and Implementation of Algebraic Methods in Geometry“  
THedu, CADE Workshop  
Wroclaw, July 31, 2011.  
<http://www.uc.pt/en/congressos/thedu/thedu11>
21. (joint work with Mladen Nikolić; presented by Mladen Nikolić)  
„CDCL-Based Abstract State Transition System for Coherent Logic“  
FATPA 2012 Workshop  
Belgrade, February 3-4, 2012.  
<http://argo.matf.bg.ac.rs/events/2012/fatpa2012/>
22. (joint work with Marko Maliković and Mirko Čubrilo; presented by Marko Maliković)  
„Formal Analysis of Correctness of a Strategy for the KRK Chess Endgame“  
FATPA 2012 Workshop  
Belgrade, February 3-4, 2012.  
<http://argo.matf.bg.ac.rs/events/2012/fatpa2012/>
23. (joint work with Ivan Petrović; presented by Ivan Petrović)  
„Integration of OpenGeoProver with GeoGebra“  
FATPA 2012 Workshop  
Belgrade, February 3-4, 2012.  
<http://argo.matf.bg.ac.rs/events/2012/fatpa2012/>
24. (joint work with Milena Marić; presented by Milena Marić)  
„Using GCLC and its Theorem Provers for Teaching Geometry“  
CADGME 2012  
Novi Sad, June 22-24, 2012.  
<http://sites.dmi.rs/events/2012/CADGME2012/>

25. (joint work with Mladen Nikolić; presented by Mladen Nikolić)  
 „CDCL-Based Abstract State Transition System for Coherent Logic“  
 CICM/Calculemus 2012  
 Bremen, July 8-13, 2012.  
<http://cicm-conference.org/2012/cicm.php>
26. (joint work with Vesna Marinković; presented by Filip Marić)  
 „Towards Understanding Triangle Construction Problems“  
 CICM/Mathematical Knowledge Management 2012  
 Bremen, July 8-13, 2012.  
<http://cicm-conference.org/2012/cicm.php>
27. (joint work with Marko Maliković and Mirko Čubrilo; presented by Marko Maliković)  
 „Formalization of a Strategy for the KRK Chess Endgame“  
 Conference on Information and Intelligent Systems - CECiS 2012  
 Varaždin, Croatia, September 2012.  
<http://www.ceciis.foi.hr/app/index.php/ceciis/2012>
28. (joint work with Vesna Marinković, Pascal Mathis and Pascal Schreck; presented by Pascal Schreck)  
 „Straightedge and Compass Constructions: Algebraic and Logical Approaches“  
 GC 2015 - International Seminar on Geometric Computation  
 Nanning, China February 2-4, 2015  
<http://gc2015.cc4cm.org/>

In several occasions I presented work of my colleagues:

1. (work by Danijela Petrović)  
 „Using Small-Step Refinement for Algorithm Verification in Computer Science Education“  
 The 3rd International Workshop on Theorem proving components for Educational software – ThEdu 2014.  
 Coimbra, Portugal, July 9, 2014.  
<http://cicm-conference.org/2014/cicm.php?event=&menu=day-schedule>

## 7.5 Conferences Attended

1. „Logic, Algebra and Discrete Mathematics“, Niš, Yugoslavia, 14.04.-16.04.1995
2. 9. Kongres matematičara Jugoslavije, Petrovac na moru, Jugoslavija, 22.05.-27.05.1995
3. LIRA '95, Novi Sad, Yugoslavia, 26.09.-30.09.1995.
4. LIRA '97, Novi Sad, Yugoslavia, 01-04.09.1997.
5. „Algebra and Logic VIII“, Novi Sad, Yugoslavia, 21.09.-23.09.1998.
6. Kongres matematičara Jugoslavije, Beograd, Jugoslavija, 21-24.01.2001.
7. IJCAR '01, Siena, Italy (18.07-24.07.2001).
8. Workshop Proof, Computation, Complexity. Dresden, Germany, 17.06.-19.06.2004.
9. Mini workshop on automated theorem proving in geometry, Linz, Austria, May 13, 2006.

10. International Congress of Mathematical Software (ICMS 2006), Castro Urdiales, Spain, 01.09.-03.09.2006.  
<http://historicosweb.unican.es/icms2006/>
11. Calculemus, Hagenberg, Austria, June 27–29, 2007.  
<http://www.risc.jku.at/conferences/Calculemus2007/?content=prog>
12. FATPA 2008, Belgrade, Serbia, January 29 — February 1, 2008.  
<http://argo.matf.bg.ac.rs/events/2008/ftpa2008/ftpa2008.html>
13. FATPA 2009, Belgrade, Serbia, January 30 — 31, 2009.  
<http://argo.matf.bg.ac.rs/events/2009/fatpa2009/fatpa2009.html>
14. CADGME 2009, Hagenberg, Austria, July 11-13, 2009.  
<http://www.risc.jku.at/conferences/cadgme2009>
15. FATPA 2010, Belgrade, Serbia, January 29-30, 2010.  
<http://argo.matf.bg.ac.rs/events/2010/fatpa2010/fatpa2010.html>
16. Workshop Automatic Deduction and GeoGebra. Castro Urdiales, Spain, February 7-10, 2010.  
<http://www.ciem.unican.es/proving2010>
17. History of Logic in Serbia, Belgrade, Serbia, June 14-15, 2010.  
<http://www.mi.sanu.ac.rs/conferences/IST-LOG2010.htm>
18. SVARM Workshop, Edinburgh, UK, July 20-21 (July 21), 2010.  
<http://richmodels.epfl.ch/svarm10>
19. Alpine Verification Meeting (AVM) / COST IC0901 Meeting Lugano, Switzerland, October 17-18 (October 18), 2010.  
<http://richmodels.epfl.ch/lugano>
20. FATPA 2011 Workshop, Belgrade, Serbia, February 4-5, 2011.  
<http://argo.matf.bg.ac.rs/events/2011/fatpa2011.html>
21. 22nd Central European Conference on Information and Intelligent Systems, CECiS 2011, Sept 21-23, Varaždin, Croatia, 2011.  
<http://www.ceciis.foi.hr/app/index.php/ceciis/2011>
22. Rich Model Toolkit Workshop, Turin, Italy, Oct 3-4, 2011.  
<https://sites.google.com/site/torino2011ic0901/>
23. FATPA 2012 Workshop, Belgrade, Serbia, February 3-4, 2012.  
<http://argo.matf.bg.ac.rs/events/2012/fatpa2012/fatpa2012.html>
24. SVARM 2012 Workshop, Tallinn, Estonia, March 31-April 01 (March 31), 2012.  
<http://pauillac.inria.fr/~herbelin/aipa2012/>
25. CADGME 2012, Novi Sad, Serbia, June 22-24, 2012.  
<http://sites.dmi.rs/events/2012/CADGME2012/>
26. IJCAR/SVARM-VERIFY, Manchester, UK, June 30-July 01, 2012.  
<http://baldur.iti.kit.edu/SVARM-VERIFY-2012/>
27. SVARM Workshop, Rome, Italy, January 20-21, 2013.  
<http://richmodels.epfl.ch/rome13>
28. PDP Workshop, Belgrade, Serbia, March 30, 2013.  
<http://argo.matf.bg.ac.rs/events/2013/pdp2013/pdp2013.html>
29. SVARM Workshop, San Anton, Malta, June 16-17, 2013.  
<http://richmodels.epfl.ch/malta13>

30. Final COST Action IC0901 Meeting, Madrid, Spain, October 17-18, 2013.  
<http://richmodels.epfl.ch/madrid13>
31. Conferences on Intelligent Computer Mathematics - CICM 2014 Coimbra, Portugal, July 7-11, 2014.  
[cicm-conference.org/2014](http://cicm-conference.org/2014)
32. 10th International Workshop on Automated Deduction in Geometry, Coimbra, Portugal, July 9-11, 2014.  
<http://www.uc.pt/en/congressos/adg/adg2014/program/schedule>
33. Conference on Computer Algebra and Dynamic Geometry Systems in Mathematics Education - CADGME 2014. Halle, Germany, September 26-29, 2014.  
<http://cadgme2014.ceremat.org/>
34. 11th Workshop on Automated Deduction in Geometry - ADG 2016, Strasbourg, France, June 27-29 2016.  
<http://icube-web.unistra.fr/adg2016>
35. Logic and Applications 2018 – LAP 2018 Dubrovnik, Croatia, September 24-28, 2018.  
<http://imft.ftn.uns.ac.rs/math/cms/LAP2018>

## 8 Publications

### 8.1 Books

1. Predrag Janičić and Goran Nenadić  
*Osnovi  $\LaTeX$ -a*  
VEDES, Beograd, 1995.  
(*Introduction to  $\LaTeX$*  (in Serbian))  
ISBN: 86-82507-05-6
2. Predrag Janičić  
*Zbirka zadataka iz geometrije*  
Matematički fakultet, Beograd  
First edition 1997, seventh edition 2007.  
(*Collection of problems in geometry* (in Serbian))  
ISBN: 86-7589-031-1
3. Irena Spasić and Predrag Janičić  
*Teorija algoritama, jezika i automata – zbirka zadataka*  
Matematički fakultet, Beograd, 1999.  
(*Theory of algorithms, languages and automata — collection of problems* (in Serbian)) ISBN: 86-7589-013-3
4. Aleksandar Samardžić, Goran Nenadić, and Predrag Janičić  
 *$\LaTeX$  za autore*  
Kompjuter biblioteka, Beograd, 2003.  
( *$\LaTeX$  for authors* (in Serbian))  
[http://knjige.kombib.rs/LaTeX2e\\_za\\_autore.html](http://knjige.kombib.rs/LaTeX2e_za_autore.html) ISBN: 86-7310-277-4
5. Predrag Janičić  
*Matematička logika u računarstvu*  
Matematički fakultet, Beograd  
First edition 2004, third edition 2007.  
(*Mathematical logic in computer science* (in Serbian))  
ISBN: 86-7589-040-0

6. Ben Goertzel, Nil Geisweiller, Lucio Coelho, Predrag Janičić, Cassio Pennachin  
Real-World Reasoning: Toward Scalable, Uncertain Spatiotemporal, Contextual and Causal Inference Atlantis Press, 2011.  
<http://www.springer.com/computer/book/978-94-91216-10-7>. ISBN: 978-94-91216-10-7
7. Filip Marić, Predrag Janičić  
Programiranje 1  
Matematički fakultet, 2015.  
ISBN: 978-86-7589-100-0

## 8.2 Book Chapters

1. Julien Narboux, Predrag Janičić, Jacques Fleuriot  
„Computer-Assisted Theorem Proving in Synthetic Geometry“  
Handbook of Geometric Constraint Systems Principles (editors Meera Sitharam, Audrey St. John, Jessica Sidman), pp 21-60, Chapman and Hall/CRC, Taylor & Francis Group, 2018.  
doi: [ISBN-13: 978-1-4987-3891-0 \(Hardback\)](https://doi.org/10.1007/978-1-4987-3891-0)  
[draft version](#)

## 8.3 Articles

1. Predrag Janičić and Stevan Kordić  
„EUCLID — the geometry theorem prover.“  
*FILOMAT*, 9(3):723–732, 1995.  
doi:  
[draft version](#)
2. Predrag Janičić, Ian Green, and Alan Bundy  
„A comparison of decision procedures in Presburger arithmetic.“  
In Ratko Tošić and Zoran Budimac, editors, *Proceedings of the VIII Conference on Logic and Computer Science (LIRA '97)*, pages 91–101, Novi Sad, Yugoslavia, September 1–4 1997. University of Novi Sad. Also available from Edinburgh as [DAI Research Paper No. 872](#).  
doi:  
[draft version](#)
3. Predrag Janičić, Alan Bundy, and Ian Green.  
„A framework for the flexible integration of a class of decision procedures into theorem provers.“  
In Harald Ganzinger, editor, *Proceedings of the 16th Conference on Automated Deduction (CADE-16)*, number 1632 in Lecture Notes in Artificial Intelligence Series, pages 127–141. Springer, 1999.  
doi: [10.1007/3-540-48660-7\\_9](https://doi.org/10.1007/3-540-48660-7_9)  
[draft version](#)
4. Predrag Janičić, Nenad Dedić, and Goran Terzić  
„On different models for generating random SAT problems“  
*Computing and Informatics (former Computers and Artificial Intelligence)*, 20(5):451–469, 2001.  
doi:  
[draft version](#)
5. Predrag Janičić and Alan Bundy  
„Strict general setting for building decision procedures into theorem provers“  
In Rajeev Goré, Alexander Leitsch, and Tobias Nipkow, editors, *The 1st International Joint Conference on Automated Reasoning (IJCAR-2001) — Short Papers*, Technical Report DII 11/01, pages 86–95. Università degli Studi di Siena, Italia, 2001.  
doi:  
[draft version](#)
6. Predrag Janičić  
„GD-SAT model and crossover line“

- Journal of Experimental and Theoretical Artificial Intelligence*, 13(3):181–198, 2001.  
doi: [10.1080/09528130110063083](https://doi.org/10.1080/09528130110063083)  
[draft version](#)
7. Predrag Janičić and Alan Bundy  
„A General Setting for the Flexible Combining and Augmenting Decision Procedures“  
*Journal of Automated Reasoning*, 28(3):257–305, 2002.  
doi: [10.1023/A:1015707001763](https://doi.org/10.1023/A:1015707001763)  
[draft version](#)
  8. Mateja Jamnik and Predrag Janičić  
„Can decision procedures be learnt automatically?“  
In Ingo Dahn and Laurent Vigneron, editors, [Proceedings of the 4th International Workshop on First Order Theorem Proving, FTP'03](#). Valencia, Spain, June 12-14., pages 35–48. Technical Report DSIC-II/10/03 of the Universidad Politecnica de Valencia, 2003.  
doi:  
[draft version](#)
  9. Mateja Jamnik and Predrag Janičić  
„Learning strategies for mechanised building of decision procedures“  
*Electronic Notes in Theoretical Computer Science*, 86(1), pages 174189, 2003.  
doi: [10.1016/S1571-0661\(04\)80662-5](https://doi.org/10.1016/S1571-0661(04)80662-5)  
[draft version](#)
  10. Predrag Janičić and Ivan Trajković  
„WinGCLC — a Workbench for Formally Describing Figures“  
In *Proceedings of the 19th spring conference on Computer graphics (SCCG 2003)*, pages 251–256, Budmerice, Slovakia, April, 24-26 2003. ACM Press, New York, USA.  
doi: [10.1145/984952.984994](https://doi.org/10.1145/984952.984994)  
[draft version](#)
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 „Computer-Assisted Proving of Combinatorial Conjectures Over Finite Domains: A Case Study  
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## 8.4 Selected Software

1. Predrag Janičić. *Geometry Constructions* →  $\LaTeX$ .  
<http://www.matf.bg.ac.rs/~janicic/gclc.html>
2. Predrag Janičić. *URSA – A system for uniform reduction to SAT*.  
<http://www.matf.bg.ac.rs/~janicic/ursa.zip>

## 9 Professional Activities

### 9.1 Editorial Boards

A member of Editorial Board of the journal IPSI Transactions on Advanced Research and (until 2011.) the journal Computer Science and Information Systems (ComSIS).

### 9.2 Program Committees

A member of the programme committee for:

- [PDPAR '03](#) – Workshop on Pragmatics of Decision Procedures in Automated Reasoning, Miami, USA, July 29, 2003.
- [PDPAR '05](#) – Workshop on Pragmatics of Decision Procedures in Automated Reasoning, Edinburgh, UK, July 12, 2005.
- [ConvMathAssist](#) – Convergence on Mathematics Assistants (Working Group; session chair), Conference Computer Algebra and Dynamic Geometry Systems in Mathematics Education, Linz, Austria, July 11-13, 2009.
- [PLMMS 2009](#) – Workshop Programming Languages for Mechanized Mathematics Systems 2009, Munich, Germany, August 21, 2009.
- [FM2009](#) – Formal Methods 2009, Eindhoven, the Netherlands, Oct 30 — Nov 7, 2009.
- [GCR'10](#) – Geometric Constraints and Reasoning, Technical track of the 25th Annual ACM Symposium on Applied Computing SAC 2010, Sierre, Switzerland, March 22 - 26, 2010.
- [CADGME 2010](#) – Computer Algebra and Dynamic Geometry Systems in Mathematics Education, Hluboka nad Vltavou, Czech Republic, June 29 – July 1, 2010.
- [SVARM 2010](#) – Synthesis, Verification, and Analysis of Rich Models, Edinburgh, United Kingdom, July 20-21, 2010.
- [ADG 2010](#) – Eighth International Workshop on Automated Deduction in Geometry, Munich, Germany, July 22-24, 2010.
- [GCR'11](#) – Geometric Constraints and Reasoning, Technical track of the 26th Annual ACM Symposium on Applied Computing SAC 2011, TaiChung, Taiwan, March 21 - 25, 2011.
- [SCDG 2011](#) – Symbolic Computing for Dynamic Geometry, Technical Session at [The 2011 International Conference on Computational Science and Its Applications \(ICCSA 2011\)](#), University of Cantabria, Santander, Spain, 20-23 June 2011.
- [THedu 2011](#) – CTP Components for Educational Software, July 31 2011, Wroclaw, Poland.
- [GCR'12](#) – Geometric Constraints and Reasoning, Technical track of the 27th ACM Symposium On Applied Computing, Riva del Garda (Trento), Italy, March 25-29, 2012.
- [SVARM & VERIFY Workshop 2012](#), Manchester, UK, June 30/July 1, 2012.

- [THedu 2012](#) – The 2nd International Workshop on Theorem Proving Components for Educational Software, Jacobs University, Bremen, Germany, July 11, 2012.
- [ADG 2012](#) – Ninth International Workshop on Automated Deduction in Geometry, Edinburgh, UK, September 17-19, 2012.
- [CADE-24](#) – the 24th International Conference on Automated Deduction, Lake Placid, New York, USA, June 9-14, 2013.
- [CICM 2013](#) – Conferences on Intelligent Computer Mathematics, Bath, UK, July 8-12, 2013.
- [CICM 2014](#) – Conferences on Intelligent Computer Mathematics, Coimbra, Portugal, July 7-9, 2014.
- [ADG 2014](#) – 10th International Workshop on Automated Deduction in Geometry, Coimbra, Portugal, July 9-11, 2014.
- [CICM 2015](#) – Conference on Intelligent Computer Mathematics, Washington DC, USA, July 2015.
- [ADG 2018](#) – 12th International Workshop on Automated Deduction in Geometry, Nanning, China, September 11-14, 2018.
- [AISC 2018](#) – 13th International Conference on Artificial Intelligence and Symbolic Computation, Suzhou, China, September 16-19, 2018.

### 9.3 Organizer and Chair of Conferences

- [FATPA '08](#) – First Workshop on Formal Theorem Proving and Applications, Belgrade, January 29 - February 1, 2008 (supported by ASO Research Foundation)
- [FATPA '09](#) – Second Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, January 30 - January 31, 2009.
- [COST Action IC0901 Working Group 1 and Working Group 2 Meeting and FATPA '10](#) – Third Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, Serbia, January 29-30, 2010.
- [FATPA '11](#) – Fourth Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, February 4-5, 2011.
- [FATPA '12](#) – Fifth Workshop on Formal and Automated Theorem Proving and Applications, Belgrade, February 3-4, 2012.
- [PDP '13](#) – Progress in Decision Procedures: From Formalizations to Applications, Belgrade, March 30, 2013.

### 9.4 Refereeing

Refereeing for the journals:

- *Journal of Automated Reasoning*
- *Theoretical Computer Science*
- *Information and Computation*
- *Computational Geometry: Theory And Applications*
- *Frontiers in Computer Science*
- *Journal of Systems Science and Complexity*
- *Annals of Mathematics and Artificial Intelligence*

- *Journal of Symbolic Computation*
- *Mathematics and Computers in Simulation*
- *Bulletin of Symbolic Logic*

Refereeing for conferences:

- *International Joint Conference on Automated Reasoning (IJCAR)*
- *Conference on Automated Deduction (CADE)*
- *Logic Programming and Automated Reasoning (LPAR)*
- *Automated Deduction in Geometry (ADG)*
- *Geometric Constraints and Reasoning (GCR)*
- *Pragmatics of Decision Procedures in Automated Reasoning (PDPAR)*
- *Formal Methods (FM)*
- *Programming Languages for Mechanical Mathematical Systems (PLMMS).*
- *Conferences on Intelligent Computer Mathematics (CICM)*

## 9.5 Professional Societies

Association for Automated Reasoning.

Member of the Council of Faculty of Mathematics (from 2009 to 2013)

Member of the Committee for Education of Serbian Academy of Science and Arts (from Nov 2012 to Nov 2015) <https://www.sanu.ac.rs/Odbor-obrazovanje/Index.aspx>

## 10 Teaching

From 1993. to 2001, I used to work as a teaching assistant and I taught the courses: Foundations of geometry, Theory of algorithms, languages and automata, and Applications of computers (Algorithmics).

Since 2001. I taught the following courses: Programming 1, Programming 2, Mathematical Logic in Computer Science, Artificial Intelligence, Computer Graphics, Computational Geometry, and several postgraduate courses in the field of theoretical computer science and of automated reasoning.

I supervised the following PhD theses:

- Filip Marić: Formalization, Implementation, and Applications of SAT Solvers (2009);
- Mladen Nikolić: Guiding Search in Automated Theorem Proving (2013).
- Vesna Marinković (born Pavlović): Automated Solving of Construction Problems in Geometry (04.06.2015)
- Sana Stojanović Djurdjević: Formalization and Automation of Euclidean Geometry (07.09.2016)

I supervised the following "magister" theses:

- Filip Marić: Implementation of schemes for incorporation of decision procedures in theorem proving (2005);
- Andrija Tomović: Algorithms for application of n-grams in data-mining (2005);
- Goran Predović: Automated geometry theorem proving based on Wu's and Buchberger's methods (2008).
- Mladen Nikolić: Methodology for selecting suitable values for parameters of SAT solver (2008).

and the following master theses:

- Petar Maksimović: Single-element complete sets of connectives for propositional logic (25.09.2008.);
- Luka Tomašević: Algorithms for graph drawing (02.10.2008.);
- Milan Šešum: Reducing cryptographic problems to SAT problem (02.10.2008.).
- Boris Ajdin: Raytracing in Poincare's disc model of hyperbolic plane (07.10.2010.).
- Aleksandar Zeljić: Solving NP-complete problems using reduction (10.10.2011.)
- Milan Todorović: Applications of non-CNF SAT solvers (10.10.2011.)
- Dejan Mitrović: Control of autonomous vehicle in virtual traffic environment (13.07.2015.)
- Milica Selaković: Geometric constructions on touch-based devices (05.09.2018.)

I served as an external examiner for the following PhD theses:

- Pierre Boutry: On the Formalization of Foundations of Geometry, PhD thesis, University of Strasbourg, France, November 13, 2018.

and for the following master theses:

- Ali Sinan Köksal: Constraint Programming in Scala, MSc thesis, École Polytechnique Fédérale de Lausanne, Switzerland, July 2011.
- Darko Jović: Realization of distributed database in P2P environment, ETF, University of Belgrade, 2014.

and as one of the supervisors for the thesis:

- Radomír Černoch: Comparing methods for predicting the grammar of a normal form, MSc thesis, School of Informatics, University of Edinburgh, 2009.

## 11 Hobbies/Interests

Arts, painting, drawing, playing rock guitar; literature; films; co-author of the web-site and two CDs devoted to the writer Danilo Kiš ("Legacy" and "Complete Works") and of the web-site and one CD devoted to the poet Petar Petrović Njegoš ("Complete Works").

Fluent English language, use of Russian language.