CURRICULUM VITAE

Predrag JANIČIĆ
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Contents

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, ≈ 50 peer-reviewed articles in journals (JAR, MLQ, LMCS, ICGA, ...) and conferences (IJCAR, CADE, FROCOS, ICMS, CALCULEMUS,...) DBLP profile/ Google Scholar profile/ MAS profile/ ORCID profile [details]

Invited talks: RSNM 2009, CECiiS 2011, SuRI 2011, CADGME 2014, ADG 2016. [details]

Talks and conferences: ≈ 110 talks at conferences, workshops, and seminars [details]

Program committee member: ADG 2010/2012/2014, CADE-24 (2013), CADGME 2009/2010/2012, CICM 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 Mijajlović (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 Hyperbolical 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).

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 Hostpitality 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 Laussanne) (100000 CHF).

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

2011–2016 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, Hariot-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 racunarstva u osnovnim i srednjim školama
   Beograd, 17.01.-18.01.2009. (17.01.2009.)
   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, CECiiS 2011
   September 21st - 23rd, Varaždin, Croatia, 2011.
   http://www.ceciis.foi.hr/app/index.php/ceciis/2011

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.cermat.org/

5. „Geometrisation of Geometry"
   Automated Deduction in Geometry - ADG 2016.
   June 27-29, 2016, Strasbourg, France
   http://icube-web.unistra.fr/adg2016

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 Matematičog 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 istrazivača Srbije
   Beograd, 12.1993.

5. (zajednički rad sa S.Kordićem)

    „Euklid — dokazivač geometrijskih teorema"

    Seminar Katedre za računarstvo Matematičkog fakulteta

    Beograd, 03.1994.

6. „Lingvisticke 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 dokazivac 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. „Stohasticke gramatike za Prezburger 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 odlucivanja 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

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

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

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/

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.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/AIVO/

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

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 svođenje 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

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

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

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

 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"

   Calculemus 1997.

   Edinburgh, Scotland, 24 - 26 September, 1997.

   http://www.calculemus.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 Smaill; 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 Smaill; 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

11. (joint work with Boris Ajdin, Jelena Novičić, Radmila Stamenčić; presented by Boris Ajdin)

    „Ray Tracing in Poincare's Ball Model of Hyperbolical 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

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 - CECiiS 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 by 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, CECiiS 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

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.cermat.org/

34. 11th Workshop on Automated Deduction in Geometry - ADG 2016, Strasbourg, France, June 27-29 2016.
http://icube-web.unistra.fr/adg2016

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 ardžić, 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 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 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
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. Universita 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
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
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
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
    draft version

11. Predrag Janičić and Mirjana Djorić
    „Constructions, instructions, interactions"
    Teaching Mathematics and its Applications, 23(2), pages 69-88. Oxford University Press, 2004.
    doi: 10.1093/teamat/23.2.69
    draft version

12. Filip Marić and Predrag Janičić
    „SMT-LIB in XML clothes"
    In *Workshop Pragmatics of Decision Procedures in Automated Reasoning (PDPAR-2004)*, 2004.
    doi:
    draft version

13. Filip Marić and Predrag Janičić
    „ARGO-LIB: A generic platform for decision procedures"
    In David Basin and Michael Rusinowitch, editors, *The 2nd International Joint Conference on Automated Reasoning (IJCAR-2004)*, volume 3097 of *Lecture Notes in Artificial Intelligence*, pages 213–217. Springer, 2004.
    doi: 10.1007/978-3-540-25984-8_13
    draft version

14. Dejan Jovanović, Predrag Janičić
    „Logical Analysis of Hash Functions"
    In Bernhard Gramlich, editor, *Frontiers of Combining Systems (FroCoS)*, volume 3717 of *Lecture Notes in Artificial Intelligence*, pages 200-215, Springer, 2005.
    doi: 10.1007/11559306_11
    draft version

15. Andrija Tomović, Predrag Janičić, Vlado Kešelj
    „N-gram-based Classification and Hierarchical Clustering of Genome Sequences"
    Computer Methods and Programs in Biomedicine, Elsevier, Volume 81, number 2, pages 137–153, 2006.
    doi: 10.1016/j.cmpb.2005.11.007
    draft version

16. Pedro Quaresma and Predrag Janičić
    „Integrating Dynamic Geometry Software, Deduction Systems, and Theorem Repositories"
    MKM 2006, Lecture Notes in Computer Science 4108, Springer, 2006.
    doi: 10.1007/11812289_22
    draft version

17. Predrag Janičić and Pedro Quaresma
    „System Description: GCLCprover + GeoThms"
    International Joint Conference on Automated Reasoning (IJCAR) 2006, Lecture Notes in Computer Science 4130, Springer, 2006.
    doi: 10.1007/11814771_13
    draft version

18. Predrag Janičić
    „GCLC – A Tool for Constructive Euclidean Geometry and More than That"
    International Congress of Mathematical Software, Lecture Notes in Computer Science 4151, Springer-Verlag, 2006.

doi: [10.1007/11832225_6](#)
draft version

19. Petar Maksimović and Predrag Janičić
„Simple characterization of functionally complete one-element sets of propositional connectives"
Mathematical Logic Quarterly, 52(5), pp 498–504, 2006.
doi: [10.1002/malq.200610009](#)
draft version

20. Pedro Quaresma and Predrag Janičić
„GeoThms — a Web System for Euclidean Constructive Geometry"
Electronic Notes in Theoretical Computer Science, Vol 174/2, pp 35-48 Elsevier, 2007.
doi: [10.1016/j.entcs.2006.09.020](#)
draft version

21. Predrag Janičić and Alan Bundy
„Automatic Synthesis of Decision Procedures: a Case Study of Ground and Linear Arithmetic"
Kauers et al. (Eds.) Towards Mechanized Mathematical Assistants, Lecture Notes in Computer Science, 4573, pp. 80-93. Springer-Verlag, Berlin-Heidelberg, 2007.
doi: [10.1007/978-3-540-73086-6_7](#)
draft version

22. Milena Vujošević-Janičić, Jelena Tomašević, Predrag Janičić
„Random k-GD-Sat Model and its Phase Transition"
Journal of Universal Computer Science, Vol. 13, No. 4, pp. 572-591. 2007.
doi: [10.3217/jucs-013-04-0572](#)
draft version

23. Andrija Tomović, Predrag Janičić
„A Variant of N-Gram Based Language Classification"
R. Basili and M.T. Pazienza (Eds.) AI*IA: Artificial Intelligence and Human-Oriented Computing
, Lecture Notes in Artificial Intelligence, 4733, pp. 410–421, Springer-Verlag, Berlin-Heidelberg, 2007.
doi: [10.1007/978-3-540-74782-6_36](#)
draft version

24. Predrag Janičić, Pedro Quaresma
„Automatic Verification of Regular Constructions in Dynamic Geometry Systems"
Francisco Botana and Tomas Recio (Eds.) Automated Deduction in Geometry, Lecture Notes in Artificial Intelligence, 4869, Springer-Verlag, Berlin-Heidelberg, 2007.
doi: [10.1007/978-3-540-77356-6_3](#)
draft version

25. Pedro Quaresma, Predrag Janičić, Jelena Tomašević, Milena Vujošević-Janičić, Dušan Tošić
„XML-based Format for Geometry — XML-based Format for Descriptions of Geometrical Constructions and Geometrical Proofs"
Chapter in Communicating Mathematics in Digital Era (Eds J. M. Borwein, E. M. Rocha and J. F. Rodrigues), pages 183–197. A K Peters, Ltd. Wellesley, MA, USA, 2008. ISBN-10: 978-1568814100
doi: [10.1201/b10587-16](#)
draft version

26. Mladen Nikolić, Filip Marić, Predrag Janičić
„Instance Based Selection of Policies for SAT Solver"
SAT 2009, Lecture Notes in Computer Science 5584. Springer. 2009.
doi: [10.1007/978-3-642-02777-2_31](#)
draft version

27. Filip Marić, Predrag Janičić
„SAT Verification Project"

In TPHOLs 2009: Theorem proving in higher order logics - Emerging trends, Technical Report TUM-I0916, Technical University Munich, 2009.
doi:
draft version

28. Sana Stojanović, Vesna Pavlović, Predrag Janičić
„Automated Generation of Formal and Readable Proofs in Geometry Using Coherent Logic"
Proceedings of Automated Deduction in Geometry, 2010.
doi:
draft version

29. Predrag Janičić
„Geometry Constructions Language"
Journal of Automated Reasoning, Volume 44, Numbers 1-2, pages 3-24, 2010.
doi: 10.1007/s10817-009-9135-8
draft version

30. Filip Marić, Predrag Janičić
„Formal Correctness Proof for DPLL Procedure"
Informatica, 2010, Volume 21, Number 1, pages 57-78, 2010.
doi:
draft version

31. Predrag Janičić
„Geometry Tools GCLC and WinGCLC"
In: Accascina G., Rogora, E. (a cura di) Seminari di geometria dinamica, Edizioni Nuova Cultura, Roma, pages 227-243, 2010. ISBN: 978886134411
doi:
draft version

32. Filip Marić, Predrag Janičić
„URBiVA: Uniform Reduction to Bit-Vector Arithmetic"
IJCAR 2010: International Joint Conference on Automated Reasoning, Lecture Notes in Computer Science 6173. Springer. 2010.
doi: 10.1007/978-3-642-14203-1_29
draft version

33. Sana Stojanović, Vesna Pavlović, Predrag Janičić
„A Coherent Logic Based Geometry Theorem Prover Capable of Producing Formal and Readable Proofs"
Automated Deduction in Geometry, Lecture Notes in Computer Science, Volume 6877, pp 201-220, Springer, 2011.
doi: 10.1007/978-3-642-25070-5_12
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„Automated Reasoning: Some Successes and New Challenges"
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„Formalization Of Abstract State Transition Systems For SAT"
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36. Filip Marić, Ivan Petrović, Danijela Petrović, and Predrag, Janičić
„Formalization and Implementation of Algebraic Methods in Geometry"
Proceedings First Workshop on CTP Components for Educational Software, Electronic Proceedings in Theoretical Computer Science", volume 79, pages 63-81, 2012.
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„The Area Method: A Recapitulation"
Journal of Automated Reasoning, 48(4), 489-532, 2012.
doi: 10.1007/s10817-010-9209-7
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38. Mladen Nikolić, Filip Marić and Predrag Janičić
„Simple algorithm portfolio for SAT"
Artificial Intelligence Review 40(4):457-465, 2013.
doi: 10.1007/s10462-011-9290-2
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39. Vesna Marinković and Predrag Janičić
„Towards Understanding Triangle Construction Problems"
Intelligent Computer Mathematics - CICM 2012 (eds. Jeuring, J. et.al.), Lecture Notes in Computer Science, 7362, Springer, 2012.
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40. Mladen Nikolić and Predrag Janičić
„CDCL-Based Abstract State Transition System for Coherent Logic"
Intelligent Computer Mathematics - CICM 2012 (eds. Jeuring, J. et.al.), Lecture Notes in Computer Science, 7362, Springer, 2012.
doi: 10.1007/978-3-642-31374-5_18
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41. Predrag Janičić
„Overview Of Automated Reasoning In Serbia"
Pregled NCD 20, pp 53-58, 2012.
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42. Predrag Janičić
„Overview of Automated Reasoning in Serbia."
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doi:
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43. Marko Maliković, Mirko Čubrilo, Predrag Janičić
„Formalization of a Strategy for the KRK Chess Endgame"
Proceedings of 23nd Central European Conference on Information and Intelligent Systems, CECiiS 2012, pp. 29-36, Varaždin, Croatia, September 2012.
doi:
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44. Predrag Janičić
„URSA: A System for Uniform Reduction to SAT"
Logical Methods in Computer Science, Volume 8 Issue 3, paper 30, 2012.
doi: 10.2168/LMCS-8(3:30)2012
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45. Marko Maliković, Predrag Janičić
„Proving Correctness of a KRK Chess Endgame Strategy by SAT-based Constraint Solving"
ICGA Journal, Volume 36, No. 2, 2013.
doi:
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46. Sana Stojanović, Julien Narboux, Marc Bezem, Predrag Janičić
„A Vernacular for Coherent Logic"
Intelligent Computer Mathematics - CICM 2014 (eds. Watt et.al.), Lecture Notes in Computer Science, Volume 8543, pp 388-403, Springer, 2014.
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47. Vesna Marinković, Predrag Janičić, Pascal Schreck
„Solving Geometric Construction Problems Supported by Theorem Proving"
Automated Deduction in Geometry - ADG 2014 (ed. Botana), Proceedings, Center for Informatics and Systems, University of Coimbra, Portugal, Technical Report CISUC/TR 2014/02, 2014. ISSN 0874-338X
doi:
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48. Sana Stojanović, Julien Narboux, Predrag Janičić
„Automated Generation of Machine Verifiable and Readable Proofs: A Case Study of Tarski's Geometry"
Annals of Mathematics and Artificial Intelligence, Volume 74, Issue 3, pp 249?269, 2015.
doi: 10.1007/s10472-014-9443-5
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49. Francisco Botana, Markus Hohenwarter, Predrag Janičić, Zoltán Kovács, Ivan Petrović, Tomás Recio, Simon Weitzhofer
„Automated Theorem Proving in GeoGebra: Current Achievements"
Journal of Automated Reasoning, Volume 55, Issue 1, pp 39-59, 2015.
doi: 10.1007/s10817-015-9326-4
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50. Filip Marić, Predrag Janičić, Marko Maliković
„Proving Correctness of a KRK Chess Endgame Strategy by using Isabelle/HOL and Z3"
Conference on Automated Deduction - CADE 25 (eds. A.P. Felty and A. Middeldorp), Lecture Notes in Computer Science, Volume 9195, pp 256-271, Springer, 2015.
doi: 10.1007/978-3-319-21401-6_17
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51. Vesna Marinković, Predrag Janičić, Pascal Schreck
„Computer Theorem Proving for Verifiable Solving of Geometric Construction Problems"
Automated Deduction in Geometry - ADG 2014 Postproceedings (eds. Botana and Quaresma), Lecture Notes in Computer Science, Volume 9201, pp 72–93, Springer, 2015.
doi: 10.1007/978-3-319-21362-0_5
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52. Pascal Schreck, Vesna Marinković, Predrag Janičić
„Constructibility Classes for Triangle Location Problems"
Mathematics in Computer Science, Springer, Volume 10, Issue 1, pp 27-39, 2016.
doi: 10.1007/s11786-016-0255-3
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53. Pascal Schreck, Pascal Mathis, Vesna Marinković, Predrag Janičić
„Wernick's list: A Final Update"

Forum Geometricorum, Volume 16, pp 69-80, 2016
doi:
[draft version](#)

8.3 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.

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 ? to ?)

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, 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 hyperbolical 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 virual traffic environment (13.07.2015.)

I served as an external examiner for the following theses:

- Ali Sinan Köksal: Constraint Programming in Scala, MSc thesis, École Polytechnique Fédérale de Lausanne, Switzerland, July 2011.

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.