Curriculum Vitae Isabela Drămnesc

# PERSONAL INFORMATION

# Isabela Drămnesc





### WORK EXPERIENCE

### January 2016 - present

### Lecturer

West University of Timişoara, Faculty of Mathematics and Computer Science, Department of Computer Science

- Teaching, evaluation, supervision, tutoring, research
- A WUT welcome & an example of a mini-course that I teach: (in EN) <a href="https://www.youtube.com/watch?v=MvnjXrhtaHY">https://www.youtube.com/watch?v=MvnjXrhtaHY</a>
  and (in RO) <a href="https://www.youtube.com/watch?time">https://www.youtube.com/watch?time</a> continue=4&v=sc9bCWH8TzI

Sector Education

### March 2013 - January 2016

# **Teaching Assistant**

West University of Timişoara, Faculty of Mathematics and Computer Science, Department of Computer Science

Teaching, evaluation, supervision, tutoring, research

**Sector Education** 

### February 2009 - March 2013

# Preparator

West University of Timişoara, Faculty of Mathematics and Computer Science, Department of Computer Science

• Teaching, evaluation, supervision, research

**Sector Education** 

# **EDUCATION AND TRAINING**

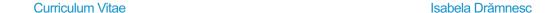
# 1 October 2017 – 14 December 2017

# Training in PBL (Problem Based Learning)

Maastricht University, Netherlands and West University of Timisoara, Romania

- Member of the project: Integrated Continuous Psycho-pedagogical Training System for University Teachers in West University of Timisoara, a project of Academic Development Center of West University of Timisoara in partnership with Maastricht University, Netherlands;
- PBL-MOOC (October 2017

   December 2017): Online course certificate on Problem Based Learning: Principles and Design provided by School of Health Professions Education of Maastricht University, Netherlands
- Training stage (November 2017) at Maastricht University, Netherlands;
- Trainings at West University of Timisoara with experts from Maastricht University, Netherlands





### 1 June 2014 - 13 December 2015

# Postdoctoral position in Computer Science

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timişoara, Romania mentor Prof. Dr. Tudor Jebelean from Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria.

- Research in the field of automated reasoning, logic, algorithm synthesis on binary trees, the Theorema system, the Cog system.
- POSDRU Grant (1 June 2015 30 July 2015) Research Stage at INRIA, Sophia-Antipolis, France

### 1 October 2008 – 7 December 2012

# Ph.D Degree in Computer Science

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timişoara, Romania under the supervision of Prof. Dr. Tudor Jebelean from Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria.

- PhD Thesis: "Case Studies on Algorithm Synthesis and Theory Exploration in Theorema"
- Research in the field of automated reasoning, logic, algorithm synthesis on lists, sets, monotone lists, the Theorema system.
- European Project (1 October 15 December 2011) Research Stage at Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria;
- Austrian Grant (15 May 31 July 2011) Research Stage at Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria;
- Erasmus Grant (1 February 2010 3 July 2010) Studies at Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria;

### September 2007 - June 2010

# Sc. Degree in Music

Center of Culture and Art, Timişoara School of Arts, Timis County, Romania

- The study included: Classical Music, International Music, Traditional Music, Musical Theory; and Instrument (Piano);
- Vocal Artist Diploma (graduated with 10 the maximum degree).

# October 2007 - July 2009

# M.Sc. Degree in Computer Science applied on Science, Economy

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timişoara, Romania

# October 2003 - July 2007

# Bachelor Degree in Mathematics and Computer Science

Faculty of Mathematics and Computer Science, Department of Computer Science, West University of Timişoara, Romania

- The study included: Mathematical Analysis, Algebra, Geometry, Differential Equations, Numerical Analysis, Mechanics, Probability and Statistics, Computer Science Bases, Algorithms and Programming, Information Systems for Economy, Formal Languages, Data Structures.
- Bachelor Thesis: "Polynomial factorization", Scientific advisor: Prof. Dr. Gheorghe Ivan.

# September 1999 – June 2003

# High School

National College "Decebal", Deva, Romania

### September 1991 - June 1999

### **Classical School**

National College "Sabin Dragoi", Deva, Romania

Curriculum Vitae Isabela Drămnesc



### PERSONAL SKILLS

### Mother tongue(s)

### Romanian

### Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	C1	C1	C1
C2	A2	B2	B2	A1
B1	B1	A2	A2	A2

Spanish French

English

# Communication skills

- good communication skills gained through my experience: as a teacher, as a tutor, as a team leader in organizing international conferences, workshops and other events held in our department of Computer Science and in other countries
- working in national and international teams
- social counselling
- intercultural skills
- social skills for cultural and artistic activities carried out in parallel with the professional activity

### Organisational / managerial skills

Leadership and organizational skills.

- Conference organizer or local chair: SYNASC 2009-2019, SYNASC 2022 <a href="www.synasc.ro">www.synasc.ro</a>, PAS 2015 <a href="http://pas2015.cc4cm.org">http://pas2015.cc4cm.org</a>, FROM 2019 <a href="http://from2019.projects.uvt.ro">http://from2019.projects.uvt.ro</a>, ARC events 5 international trainings, 1 international summer school, 1 international symposium <a href="https://arc.info.uvt.ro">https://arc.info.uvt.ro</a>
- member of Senate of West University of Timisoara in February 2019 March 2020,
- member of Faculty of Mathematics and Computer Science Council and member of Computer Science Department Council of West University of Timisoara since November 2019 – present.

### Job-related skills

System Experience

- Working Experience on PCs (Windows 95, 98, XP, Vista, 7, 8, 10)
- Programming Languages:
  - Imperative: C, Pascal, Python,
  - Object-Oriented: C++, Java,
  - Declarative: Prolog,
  - Functional: Lisp, Scheme/Racket,
  - Other: Maple, Mathematica, Theorema
- Other: LaTeX, Office, FoxPro, Html.

### Digital competence

SELF-ASSESSMENT						
Information processing	Communication	Content creation	Safety	Problem solving		
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user		

# Other computer skills:

• good web developer (webpages created: <a href="http://staff.fmi.uvt.ro/~isabela.dramnesc">http://staff.fmi.uvt.ro/~isabela.dramnesc</a>)

# Other skills

Vocal artist passionate on Romanian traditional music, a very good composer of songs and poems, a very good dancer, a very good hairstylist, a good chess player, a good painter, a passionate driver. Driving licence category B since December 2002.





euro*pass* 

# Publications Presentations Projects Conferences Seminars Honours and awards Memberships References Citations Courses

### Publications:

- 7 journal articles (from which 2 are ISI core rank A, and one ISI rank B),
- 21 conference articles (from which 17 are ISI core rank C, 1 ISI core rank B),
- 8 international technical reports published in RISC Report Series, Research Institute for Symbolic Computation, University of Linz, Austria
- 2 books: Editura Universității de Vest, Timișoara

Presentations at international conferences, workshops and seminars:

- Ukraine: 2009 Seminar at National Taras Shevchenko University in Kiev,
- Austria: SCSS 2010 at Johannes Kepler University of Linz; CIAO 2010 at RISC Hagenberg; RISC Theorema Seminar 2010 at RISC, Hagenberg; RISC Theorema Seminar 2011 at RISC, Hagenberg; Vienna Summer of Logic 2014 at Vienna University of Technology,
- Serbia: SISY 2012, SISY 2014, SISY 2015, SISY 2019 in Subotica,
- Slovakia: SAMI 2020 in Herl'any,
- France: INRIA Seminar 2015 in Sophia-Antipolis Cote d'Azur,
- Georgia: CICM 2022 in Tbilisi,
- Spain: INTED 2022 in Valencia,
- USA: EdMedia+ 2022 in New York,
- Turkey: MACIS 2019 in Gebze-Istanbul,
- Georgia: CICM 2022 in Tbilisi,
- Romania: SYNASC 2010, SYNASC 2011, SYNASC 2012, Scientific Seminar UVT 2012, Annual PhD Students Session 2012, SYNASC 2015, FROM 2019 at West University of Timisoara; FROM 2020; SACI 2012, SACI 2016, SACI 2020, SACI 2021 at Politehnica University of Timisoara

### Projects:

- SciCom (Scientific Computing Platform) bilateral project, collaboration Romania-Austria, July 2010 August 2010 – Young Visiting Researcher RISC, Linz, Austria;
- SPRERS (Strengthening the Participation of Romania at European R&D in Software Services),
   West University of Timisoara, 1 October 2011 15 December 2011 Young Visiting Researcher RISC, Linz, Austria;
- HOST (High Performance Computing Service Center), West University of Timisoara, 1 January 2012 – 31 December 2014;
- POSDRU/159/1.5/S/137750, Project Doctoral and Postdoctoral programs support for increased competitiveness in Exact Sciences research cofinanced by the European Social Fund within the Sectoral Operational Programme Human Resources Development 2007 – 2013, West University of Timisoara, 1 June 2014 - 13 December 2015;
- Integrated Continuous Psycho-pedagogical Training System for University Teachers in West University of Timisoara, Maastricht University, Netherlands, 1 October – 15 December 2017;
- Discover WUT, West University of Timisoara, May 2018;
- ARC Project Erasmus+ Strategic Partnership for Higher Education: Automated Reasoning in the Class (as project manager), West University of Timisoara, 1 October 2019 – 31 August 2022 <a href="https://arc.info.uvt.ro">https://arc.info.uvt.ro</a>.

Trainings, Tutorials, Seminars, Workshops, and Summer Schools:

- CIAO workshop, 3-5 August 2010, Research Institute for Symbolic Computation (RISC) in Hagenberg, Austria, <a href="http://www.risc.jku.at/conferences/ciao2010/?content=program">http://www.risc.jku.at/conferences/ciao2010/?content=program</a>
- Summer School on Language Frameworks, Sinaia, Romania, July 23-31, 2012.
   <a href="https://fmse.info.uaic.ro/events/SSLF12">https://fmse.info.uaic.ro/events/SSLF12</a>
- Tutorial on Programming Language Design and Analysis using the K Framework, 29 September 2012, West University of Timişoara, Romania, <a href="http://synasc12.info.uvt.ro/tutorials/tutorial-k-framework">http://synasc12.info.uvt.ro/tutorials/tutorial-k-framework</a>
- Workshop of e-Infrastructure for Public Sector, 21-23 March, 2013, West University of Timişoara, http://host.hpc.uvt.ro/events/workshop-of-e-infrastructure-for-public-sector
- Seminar "Training Proiecte FP7, PN II and POSDRU", 26.04.2013, Timişoara, Romania,



### http://www.cercetare.uvt.ro/seminar-training-proiecte-fp-7-pnii-posdru

- Info Day H2020-ICT, 16 December 2013, West University of Timişoara, http://host.hpc.uvt.ro/events/infoday-h2020-ict
- 2014 Tarragona International Summer School on Trends in Computing, Tarragona, Spain, July 7-11, 2014, http://grammars.grlmc.com/sstic2014
- Erasmus+ Strategic Partnerships for Higher Education Workshop, February 2019, Politehnica University of Bucharest, National Agency ANPCDEFP, <a href="https://www.erasmusplus.ro/evenimente-det/vrs/IDev/1403">https://www.erasmusplus.ro/evenimente-det/vrs/IDev/1403</a>
- Tutorial on "The Theorema Proof Assistant", September 2017, Timisoara, Romania, https://synasc.ro/2017/tutorials-2/wolfgang-windsteiger
- STP Valencia Languages & IT Training for University Staff, June 2019, Politecnica University of Valencia, Spain <a href="http://staffmobility.eu/staffweek/18th-stp-valencia-languages-it-training">http://staffmobility.eu/staffweek/18th-stp-valencia-languages-it-training</a>
- STP Valencia Languages & IT Training for University Staff, June 2022, Politecnica University of Valencia, Spain, <a href="http://staffmobility.eu/staffweek/23rd-stp-valencia-languages-it-training">http://staffmobility.eu/staffweek/23rd-stp-valencia-languages-it-training</a>
- Training in How to plan and run a summer school successfully, EAIE Autumn Academy, November 18-22, 2019, Central European University in Budapest, Hungary <a href="https://www.eaie.org/training/past-academies.html">https://www.eaie.org/training/past-academies.html</a>
- Erasmus+ Strategic Partnerships for Higher Education, Workshop on Disseminating, 22- 27 April 2021, (online), National Agency ANPCDEFP, <a href="https://www.erasmusplus.ro/evenimente-det/vrs/IDev/1902">https://www.erasmusplus.ro/evenimente-det/vrs/IDev/1902</a>
- International Training in Theorema, 16.03.2021 01.04.2021, Johannes Kepler University of Linz, Austria (online) within the Erasmus+ Strategic Partnership project ARC Automated Reasoning in the Class, <a href="https://arc.info.uvt.ro/?page">https://arc.info.uvt.ro/?page</a> id=335
- International Training in SMT, 19.05.2021 04.06.2021, RWTH, Aachen University, Germany (online) within the Erasmus+ Strategic Partnership project ARC Automated Reasoning in the Class, https://arc.info.uvt.ro/?page\_id=551
- International Training in Problem based Learning, 30.08.2021 03.09.2021, West University of Timisoara, Romania, <a href="https://arc.info.uvt.ro/?page\_id=557">https://arc.info.uvt.ro/?page\_id=557</a>
- International Summer School on Computational Logic, 04.07.2022 08.07.2022, Johannes Kepler University, Linz, Austria, <a href="https://arc.info.uvt.ro/?page\_id=603">https://arc.info.uvt.ro/?page\_id=603</a>
- International Training in SAT, 29.11.2021 05.12.2021, Eszterhazy Karoly Catholic University, Eger, Hungary, <a href="https://arc.info.uvt.ro/?page\_id=587">https://arc.info.uvt.ro/?page\_id=587</a>
- International Training in Coq, 21.03.2022 25.03.2022, Universite de Lorraine, Metz, France, https://arc.info.uvt.ro/?page\_id=598

### Awards:

 "Mihail Ghermănescu" award for Mathematics and Computer Science, November 2020, GALA Premiilor Universității de Vest din Timișoara, Ediția VI - 2020

# Keynote speaker:

- National Workshop on Student Centred Approach: A Case Study on Problem based Learning, 11 and 14 December 2017, West University of Timisoara, Romania
- International Training in Problem based Learning, 30.08.2021 03.09.2021, West University of Timisoara, Romania
- International Summer School on Computational Logic, 04.07.2022 08.07.2022, Johannes Kepler University, Linz, Austria
- International Symposium on Automated Reasoning in the Class, 18.07.2022 19.07.2022, West University of Timisoara

### Teaching stages at:

• Johannes Kepler University, Research Institute for Symbolic Computation, Linz, Austria in 28.03.2019 – 13.04.2019, 20.10.2021 – 28.10.2021, and in 14.11.2022 – 18.11.2022 within the Erasmus+ mobilities for teaching

### Program Committee member

- PAS 2015 Fourth International Seminar on Program Verification, Automated Debugging and Symbolic Computation, Beijing, China, October 21-23, 2015
- Information Sciences, Elsevier Journal, (ISI core rank A): 2018 present,
- CICM 2023 Conference on Intelligent Computer Mathematics





### Managing editor 2012-2018:

 Annals of West University of Timişoara, Mathematics and Informatics Series http://www.math.uvt.ro/anmath/index.php/ami/about/editorialTeam

### Expert evaluator.

Romanian: Stiintescu projects, 2<sup>nd</sup> edition, 2019, https://timisoara.stiintescu.ro/

### Citations:

- On Google Scholar: h-index 7, around 170 citations
- On ISI Web of Knowledge: h-index 4, around 70 citations
- On Scopus: h-index 6, around 110 citations
- On ResearchGate: h-index 6, around 100 citations
- On Mendeley: h-index 6, around 110 citations

### Courses:

- Online at http://staff.fmi.uvt.ro/~isabela.dramnesc
- A minicourse (in EN) https://www.youtube.com/watch?v=MvnjXrhtaHY
- and (in RO) <a href="https://www.youtube.com/watch?time">https://www.youtube.com/watch?time</a> continue=4&v=sc9bCWH8Tzl

# ANNEX 1 Selected list of publications:

# PhD Thesis:

I. Drămnesc, Case Studies on Algorithm Synthesis and Theory Exploration in Theorema, Faculty of Mathematics and Computer Science, West University of Timisoara, December 2012, Scientific advisor: Prof. Dr. Tudor Jebelean, Johannes Kepler University of Linz, Austria.

### Books:

M. Marin, V. Negru, I. Drămnesc, *Principles and Practice of Functional Programming*, (in EN), Editura Universității de Vest, Timisoara, 2016, ISBN 978-973-125-451-7, <a href="https://editura.uvt.ro/?p=1702">https://editura.uvt.ro/?p=1702</a>

I. Drămnesc et. al, Computational Logic: A Practical Approach, (in EN), Editura Universității de Vest, Timisoara 2022, ISBN 978-973-125-964-2

### Journal articles:

- 1) I. Drämnesc, E. Abraham, T. Jebelean, G. Kusper, S. Stratulat, *Automated Reasoning in the Class*, Journal of Computer Algebra Rundbrief, Nr. 71, pp. 21-26, Oktober 2022 <a href="https://fachgruppe-computeralgebra.de/data/CA-Rundbrief/car71.pdf#page=21">https://fachgruppe-computeralgebra.de/data/CA-Rundbrief/car71.pdf#page=21</a>
- 2) I. Drămnesc and T. Jebelean, Synthesis of Sorting Algorithms using Multisets in Theorema, Journal of Logical and Algebraic Methods in Programming, Elsevier, vol. 119, 100635 (2021), <a href="https://doi.org/10.1016/j.jlamp.2020.100635">https://doi.org/10.1016/j.jlamp.2020.100635</a>
- 3) I. Drămnesc, T. Jebelean, S. Stratulat, *Mechanical Syntheis of Sorting Algorithms for Binary Trees by Logic and Combinatorial Techniques*, Journal of Symbolic Computation, Elsevier, vol. 90, 2019, pp. 3 41, <a href="https://doi.org/10.1016/j.jsc.2018.04.002">https://doi.org/10.1016/j.jsc.2018.04.002</a>
- 4) I. Drămnesc and T. Jebelean, *Synthesis of List Algorithms by Mechanical Proving*, Journal of Symbolic Computation, Elsevier, vol. 69. issue 1, 2015, pp. 61 92, http://dx.doi.org/10.1016/j.jsc.2014.09.030
- 5) I. Drămnesc and T. Jebelean, *Proof Based Synthesis of Algorithms: A Case Study on Monotone Lists*, Scientific Bulletin of The "Politehnica" University of Timişoara, Romania, Transactions on Automatic Control and Computer Science, vol. 60(74), issue 2, 2015, pp. 97 104, ISSN 1224-600X, http://www.ac.upt.ro/journal/article.php?v=60(74)%20&%20vn=2%20&%20n=4
- I. Drămnesc and T. Jebelean, Systematic Exploration of List Theory in Theorema, Scientific Bulletin of The "Politehnica" University of Timişoara, Romania, Transactions on Automatic Control and Computer Science, vol. 57(71), issue 4, 2012, pp. 203 – 210, ISSN 1224-600X, <a href="http://www.ac.upt.ro/journal/article.php?v=57(71)%20&%20vn=4%20&%20n=1">http://www.ac.upt.ro/journal/article.php?v=57(71)%20&%20vn=4%20&%20n=1</a>





 I. Drămnesc and T. Jebelean, A Case Study in Proof Based Synthesis of Sorting Algorithms, Annals of West University of Timisoara, Series Mathematics - Informatics XLVIII/3, pp. 47-58, 2010, ISSN 1841-3293, http://www.math.uvt.ro/anmath/index.php/ami/article/view/76.

### **Articles in Conference Proceedings**

- I. Drămnesc, E. Abraham, T. Jebelean, G. Kusper, S. Stratulat, Experiments with Automated Reasoning in the Class In: Proceedings of CICM 2022: 15<sup>th</sup> International Conference on Intelligent Computer Mathematics, pp. 287-304, September 2022, Tbilisi, Georgia, LNCS, Springer, <a href="https://doi.org/10.1007/978-3-031-16681-5">https://doi.org/10.1007/978-3-031-16681-5</a> 20
- 2) I. Drămnesc, E. Abraham, T. Jebelean, G. Kusper, S. Stratulat, *ARC: An Educational Project on Automated Reasoning in the Class* In Proceedings of EdMedia+ Innovate Learning 2022, pp. 934-043, June 2022, New York City, NY, United States of America, AACE, https://www.learntechlib.org/primary/p/221395
- I. Drămnesc, T. Jebelean, Automated Reasoning in the Class: An Educational Project for Software Engineers In: Proceedings of INTED2022: 16<sup>th</sup> International Technology, Education and Development Conference, pp. 6224-6228, March 2022, Valencia, Spain, https://doi.org/10.21125/inted.2022.1581
- I. Drămnesc, T. Jebelean, AlCons: Deductive Synthesis of Sorting Algorithms in Theorema In: Proceedings of ICTAC 2021: 18<sup>th</sup> International Colloquium on Theoretical Aspects of Computing, pp. 314-333, September 2021, Nur-Sultan, Kazakhstan, https://doi.org/10.1007/978-3-030-85315-0 18
- I. Drămnesc, T. Jebelean, Synthesis of Merging Algorithms on Binary Trees using Multisets in Theorema In: Proceedings of SACI 2021: 15<sup>th</sup> IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 497-502, May 2021, Timisoara, Romania, https://doi.org/10.1109/SACI51354.2021.9465619
- I. Drămnesc, T. Jebelean, Deductive Synthesis of Min-Max-Sort Using Multisets in Theorema In: Proceedings of SACI 2020: 14<sup>th</sup>
  IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 165-172, May 2020, Timisoara, Romania,
  <a href="https://doi.org/10.1109/SACI49304.2020.9118814">https://doi.org/10.1109/SACI49304.2020.9118814</a>
- 7) I. Drămnesc, T. Jebelean, *Deductive Synthesis of Bubble-Sort Using Multisets* In: Proceedings of SAMI 2020: IEEE 18<sup>th</sup> World Symposium on Applied Machine Intelligence and Informatics, pp. 123-128, January 2020, Herl'any, Slovakia, https://doi.org/10.1109/SAMI48414.2020.9108725
- 8) I. Drămnesc, T. Jebelean, *Automatic Synthesis of Merging and Inserting Algorithms on Binary Trees Using Multisets in Theorema* In: Proceedings of MACIS 2019: 8<sup>rd</sup> International Conference on Mathematical Aspects of Computer and Information Sciences, pp. 153-168, November 13-15, 2019, Gebze-Istanbul, Turkey, LNCS, Springer, <a href="https://doi.org/10.1007/978-3-030-43120-4">https://doi.org/10.1007/978-3-030-43120-4</a> 13
- 9) I. Drămnesc, T. Jebelean, *Proof-Based Synthesis of Sorting Algorithms using Multisets in Theorema*, In: Proceedings of FROM 2019: 3<sup>rd</sup> Symposium on Working Formal Methods, pp. 76-91, September 3-5, 2019, Timisoara, Romania, https://arxiv.org/abs/1909.01747v1
- I. Drămnesc, T. Jebelean, Case Studies on Algorithm Discovery from Proofs: The Delete Function on Lists and Binary Trees using Multisets, In: Proceedings of SISY 2019: the 17<sup>th</sup> IEEE International Symposium on Intelligent Systems and Informatics, pp. 213-220, September 12-14, 2019, IEEE Xplore, <a href="http://dx.doi.org/10.1109/SISY47553.2019.9111483">http://dx.doi.org/10.1109/SISY47553.2019.9111483</a>
- 11) I. Drămnesc, T. Jebelean, S. Stratulat, *A case study on algorithm discovery from proofs: The insert function on binary trees*, In: Proceedings of SACI 2016: 11th IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 231-236, May 12-14, 2016, Timisoara, Romania, <a href="http://dx.doi.org/10.1109/SACI.2016.7507376">http://dx.doi.org/10.1109/SACI.2016.7507376</a>
- 12) I. Drămnesc, T. Jebelean, S. Stratulat, *Proof-based Synthesis of Sorting Algorithms for Trees*, In: Proceedings of LATA 2016: 10th International Conference on Language and Automata Theory and Applications, pp. 562-575, March 14-18, 2016, Prague, Czech Republic, Springer, <a href="http://dx.doi.org/10.1007/978-3-319-30000-9">http://dx.doi.org/10.1007/978-3-319-30000-9</a> 43
- 13) I. Drămnesc, T. Jebelean, S. Stratulat, *Combinatorial Techniques for Proof-based Synthesis of Sorting Algorithms*, In: Proceedings of SYNASC 2015: the 17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, pp. 137-144, 21-24 September 2015, IEEE Computer Society, <a href="http://dx.doi.org/10.1109/SYNASC.2015.30">http://dx.doi.org/10.1109/SYNASC.2015.30</a>
- 14) I. Drămnesc, T. Jebelean, S. Stratulat, *Theory Exploration of Binary Trees*, In: Proceedings of SISY 2015: the 13th IEEE International Symposium on Intelligent Systems and Informatics, pp. 139-144, 17-19 September 2015, IEEE Xplore, <a href="http://dx.doi.org/10.1109/SISY.2015.7325367">http://dx.doi.org/10.1109/SISY.2015.7325367</a>
- I. Drămnesc, T. Jebelean, A Case Study in Proof Based Synthesis of Algorithms on Monotone Lists, In: Proceedings of SACI 2015: the 10th IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 483-488, 21-23 May 2015, IEEE Xplore, http://dx.doi.org/10.1109/SACI.2015.7208252

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- I. Drămnesc, T. Jebelean, Theory Exploration of Sets Represented as Monotone Lists, In: Proceedings of SISY 2014: the IEEE 12th Jubilee International Symposium on Intelligent Systems and Informatics, pp. 163-168, 11-13 September 2014, IEEE Xplore, http://dx.doi.org/10.1109/SISY.2014.6923579
- 12) I. Drămnesc, T. Jebelean, *Automated Synthesis of Some Algorithms on Finite Sets*, In: Proceedings of SYNASC 2012: the 14th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, D. Wang, V. Negru, T. Ida, T. Jebelean, D. Petcu, S. Watt and D. Zaharie (ed.), 26-29 September 2012, IEEE Computer Society, pp. 143 151, http://dx.doi.org/10.1109/SYNASC.2012.43
- 18) I. Drămnesc, T. Jebelean, *Discovery of Inductive Algorithms through Automated Reasoning: A Case Study on Sorting*, In: Proceedings of SISY 2012: the IEEE 10th Jubilee International Symposium on Intelligent Systems and Informatics, pp. 293-298, 20-22 September 2012, IEEE Xplore, <a href="http://dx.doi.org/10.1109/SISY.2012.6339532">http://dx.doi.org/10.1109/SISY.2012.6339532</a>
- I. Drămnesc, T. Jebelean, Theory Exploration in Theorema: Case Study on Lists, In: Proceedings of SACI 2012: the 7th IEEE International Symposium on Applied Computational Intelligence and Informatics, pp. 421-426, 24-26 May 2012, IEEE Xplore, http://dx.doi.org/10.1109/SACI.2012.6250041
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