

PERSONAL INFORMATION

Aleksandar Dimovski



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 <https://aleksdimovski.github.io/>

Sex M | Nationality Macedonian

WORK EXPERIENCE

- Jan 2018 - Current **Associate Professor**
 Mother Teresa University, Faculty of Informatics, Skopje, Macedonia
- Jan 2014 - 2017 **PostDoc Researcher**
 IT University of Copenhagen, Department of Computer Science, Copenhagen, Denmark
- Feb 2008 - 2013 **Assistant Professor**
 FON University, Faculty of Information and Communication Technologies, Skopje, Macedonia
- Oct 2003 - 2007 **Research and Teaching Assistant**
 Warwick University, Department of Computer Science, Coventry, United Kingdom
- Oct 2001 - 2003 **Research and Teaching Assistant**
 Sts Cyril and Methodius University, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia

EDUCATION

- Oct 2003 - 2007 **PhD in Computer Science** EQF level 8
 Warwick University, Department of Computer Science, Coventry, United Kingdom
 ▪ “Compositional Software Verification Based on Game Semantics”
- Oct 2001 - 2003 **M.Sc. in Informatics**
 Sts Cyril and Methodius University, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia
 ▪ “Application of Optimisation Search Heuristics in Cryptology ”
- 2000 **B.Sc. in Informatics**
 Sts Cyril and Methodius University, Faculty of Natural Sciences and Mathematics, Skopje, Macedonia

PERSONAL SKILLS

Mother tongue(s) Macedonian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Albanian	A2	A2	A2	A2	A2
IELTS					

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills ▪ good communication skills gained through my experience as university teacher and presenter at scientific conferences.

Digital skills

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

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

Driving licence B

ADDITIONAL INFORMATION

Publications

Books:

- A. Dimovski. *Software Verification Based on Game Semantics and Process Algebra*. VDM Verlag Dr. Muller, 2009.
- A. Dimovski. *Основни концепти на програмирањето: семантички пристап*. Матица македонска, 2009.

Journals:

- A. Dimovski. *CTL* family-based model checking using variability abstractions and modal transition systems*. In *International Journal on Software Tools for Technology Transfer (STTT)*, Vol. 22(1): 35--55, Springer-Verlag, 2020.
- Aleksandar S. Dimovski, Claus Brabrand, Andrzej Wasowski: *Finding suitable variability abstractions for lifted analysis*. *Formal Asp. Comput. (FAOC)*, Vol. 31(2): 231-259, Springer, 2019.
- Blagoj Atanasovski, Milos Bogdanovic, Goran Velinov, Leonid Stoimenov, Aleksandar S. Dimovski, Bojana Koteska, Dragan Jankovic, Irena Skrceska, Margita Kon-Popovska, Boro Jakimovski. *On defining a model driven architecture for an enterprise e-health system*. *Enterprise IS*, Vol. 12(8-9): 915-941, 2018.
- A. Dimovski, C. Brabrand, and A. Wasowski. *Variability abstractions for lifted analysis*. In *Science of Computer Programming (SCP)*, Vol. 159: 1-27, Elsevier, 2018.
- A. Dimovski. *Verifying annotated program families using symbolic game semantics*. In *Theoretical Computer Science (TCS)*, Vol. 706: 35-53, Elsevier, 2018.
- A. F. Iosif-Lazar, J. Melo, A. S. Dimovski, C. Brabrand, A. Wasowski. *Effective Analysis of C Programs by Rewriting Variability*. In *The Art, Science, and Engineering of Programming Journal (Programming)*, Vol. 1(1): 1--25, 2017.
- A. Dimovski, A. S. Al-Sibahi, C. Brabrand, and A. Wasowski. *Efficient family-based model checking via variability abstractions*. In *International Journal on Software Tools for Technology Transfer (STTT)*, Vol. 19(5): 585--603, Springer-Verlag, 2017.
- J. Midtgaard, A. Dimovski, C. Brabrand, and A. Wasowski. *Systematic derivation of correct variability-aware program analyses*. In *Science of Computer Programming (SCP)*, Vol. 105: 145-170, Elsevier, 2015.

Publications

Conferences:

- Aleksandar S. Dimovski. *Lifted analysis using a binary decision diagram abstract domain*. In Proceedings of the 18th ACM SIGPLAN International Conference on Generative Programming (**GPCE'19**), 102 - 114, ACM, Athens, November 2019.
- Aleksandar S. Dimovski, Axel Legay, Andrzej Wasowski. *Variability Abstraction and Refinement for Game-Based Lifted Model Checking of Full CTL*. In Proceedings of the 22nd International Conference on Fundamental Approaches to Software Engineering (**FASE'19**), Lecture Notes in Computer Science 11424: 192- 209, Springer, Prague, 2019.
- A. Dimovski. *Abstract Family-based Model Checking using Modal Featured Transition Systems*. In Proceedings of the 21th International Conference on Fundamental Approaches to Software Engineering (**FASE'18**), Lecture Notes in Computer Science 10802: 301-318, Springer, Thessaloniki, April 2018.
- Ahmad Salim Al-Sibahi, Thomas P. Jensen, Aleksandar S. Dimovski, Andrzej Wasowski. *Verification of high-level transformations with inductive refinement types*. In Proceedings of the 17th ACM SIGPLAN International Conference on Generative Programming (**GPCE'18**), 147 - 160, ACM, Boston, November 2018.
- A. Dimovski. *Probabilistic Analysis Based On Symbolic Game Semantics and Model Counting*. In Proceedings of the Eighth International Symposium on Games, Automata, Logics and Formal Verification (**GandALF'17**), Electronic Proceedings in Theoretical Computer Science 256: 1--15, Rome, September 2017.
- A. Dimovski, A. Wasowski. *Variability-specific Abstraction Refinement for Family-based Model Checking*. In Proceedings of the 20th International Conference on Fundamental Approaches to Software Engineering (**FASE'17**), Lecture Notes in Computer Science 10202: 406--423, Springer, Uppsala, April 2017.
- A. Dimovski, C. Brabrand, A. Wasowski. *Finding Suitable Variability Abstractions for Family-Based Analysis*. In Proceedings of the 21st International Symposium on Formal Methods (**FM'16**), Lecture Notes in Computer Science 9995: 217-234, Springer, Limassol, November 2016.
- A. Dimovski. *Symbolic Game Semantics for Model Checking Program Families*. In Proceedings of the 23rd International SPIN Symposium on Model Checking of Software (**SPIN'16**), Lecture Notes in Computer Science 9641: 19--37, Springer, Eindhoven, 2016.
- A. S. Al-Sibahi, A. Dimovski, A. Wasowski. *Symbolic Execution of High-level Transformations*. In Proceedings of the 2016 ACM SIGPLAN International Conference on Software Language Engineering (**SLE'16**), ACM: 207--220, Amsterdam, October 2016.
- A. Dimovski, C. Brabrand, and A. Wasowski. *Variability abstractions: Trading precision for speed in family-based analyses*. In Proceedings of 29th European Conference on Object-Oriented Programming (**ECOOP'15**), LIPIcs 37: 247-270, Schloss Dagstuhl - Leibniz-Zentrum fuer Informatik, Prague, July, 2015.
- A. Dimovski, A.S.Al-Sibahi, C.Brabrand, and A.Wasowski. *Family-based model checking without a family-based model checker*. In Proceedings of the 22nd International SPIN Symposium on Model Checking of Software (**SPIN'15**), Lecture Notes in Computer Science 9232: 282--299, Springer, Stellenbosch, August 2015.

ANNEXES

Awards and Honors

ORS (Overseas Research Students) Award. 09/2004--09/2006. Department of Computer Science, University of Warwick, UK.

EPSRC (Engineering and Physical Sciences Research Council) Studentship. 09/2003--09/2006. Department of Computer Science, University of Warwick, UK.

Graduation with Distinction, GPA 9.73/10. 12/2000. Institute of Informatics, Faculty of Natural Sciences, Sts Cyril and Methodius University, Skopje, MKD.