

NataliiaStulova

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links

Github:// **s0nata**

LinkedIn:// **nata-stulova**

dblp:// **Stulova:Nataliia**

programming

Prolog
C++, Java
L^AT_EX
bash

languages

native
Ukrainian
Russian
proficient
English
Spanish
German
beginner
Hebrew

experience

- 2014–2018 **IMDEA Software Institute** | *Predoctoral Researcher* Madrid, Spain
My research focus has been specification-based software verification: how to write specifications of program behavior, how to introduce non-trivial properties of programs, how to check them thoroughly, and how to do this efficiently.
- 2012–2013 **Intelligent Systems and Knowledge Engineering Group** | *Research Intern* Madrid, Spain
Technical University of Madrid (UPM)
I have been designing and implementing a graphical user interface (GUI) for a multi-agent airspace simulation system.

education

- 2014–2018 **PhD** in Software, Systems and Computing Technical University of Madrid (UPM)
- 2012–2013 **MSc** in Artificial Intelligence Technical University of Madrid (UPM)
- 2008–2012 **BSc** in System Analysis National Technical University of Ukraine
"Kyiv Polytechnic Institute" (NTUU "KPI")

research

- PPDP'18 Static Performance Guarantees for Programs with Run-time Checks
M. Klemen, N. Stulova, P. Lopez-Garcia, J. F. Morales, M. Hermenegildo
20th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming
resource usage analysis • assertions • declarative programming • run-time checking
- PADL'18 Exploiting Term Hiding to Reduce Run-time Checking Overhead
N. Stulova, J. F. Morales, M. Hermenegildo
20th International Symposium on Practical Aspects of Declarative Languages
declarative programming • module systems • assertions • abstract interpretation • run-time checking
- SCP'17 Some Trade-offs in Reducing the Overhead of Assertion Run-time Checks via Static Analysis
N. Stulova, J. F. Morales, M. Hermenegildo
Science of Computer Programming, 18th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming (PPDP'16) Special Issue
abstract interpretation • assertions • run-time checking • logic programming • horn clauses
- ICLP'15 Practical Run-time Checking via Unobtrusive Property Caching
N. Stulova, J. F. Morales, M. Hermenegildo
Theory and Practice of Logic Programming, 31st International Conference on Logic Programming Special Issue
assertions • property caching • memoization • run-time checking
- PPDP'14 Assertion-based Debugging of Higher-Order (C)LP Programs
N. Stulova, J. F. Morales, M. Hermenegildo
16th International ACM SIGPLAN Symposium on Principles and Practice of Declarative Programming
higher-order • assertions • run-time checking • declarative programming

other qualifications

- 2017 **Workshop Chair | Organizer** web presence • talk scheduling • submissions review
Co-organized CICLOPS'17 – 15th International Colloquium on Implementation of Constraint and LOGic Programming Systems, co-located with ICLP'17 / CP'17 / SAT'17.

interests

program specification languages, specification-based software verification and synthesis, natural language processing, general artificial intelligence, knowledge representation and reasoning