

NataStulova

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links

Github:// [s0nata](#)
LinkedIn:// [nata-stulova](#)
dblp:// [Stulova:Nataliia](#)

languages

Ukrainian
Russian
English
Spanish
German
Hebrew

programming

Prolog
C++, Java
L^AT_EX
bash

experience

- 2014–Now **IMDEA Software Institute** | *Predoctoral Researcher* Madrid, Spain
My research focuses on 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 had 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 **M.Sc.** in Artificial Intelligence Technical University of Madrid (UPM)
- 2008–2012 **B.Sc.** 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