NataStulova

contact

+38.067.633.72.57

nata.stulova@pm.me

links

Github:// **s0nata**
LinkedIn:// **nata-stulova**
dblp:// **Stulova:Nataliia**

languages

native
Ukrainian
Russian
proficient
English
Spanish
German
beginner
Hebrew

programming

Prolog
C++, Java
LaTeX
bash

experience

2014–2018 **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*
Technical University of Madrid (UPM) — Madrid, Spain
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