NataliiaStulova

experience contact

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links

web:// s0nata.github.io

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

programming

Proloa C++, Java MT_EX bash

languages

native Ukrainian Russian proficient Enalish Spanish German beginner Hebrew French 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 pro-

grams, how to check them thoroughly, and how to do this efficiently.

Intelligent Systems and Knowledge Engineering Group | Research Intern

Technical University of Madrid (UPM)

Madrid, Spain

I have been designing and implementing a graphical user interface (GUI) for a multiagent airspace simulation system.

education

2012-2013

2014–2018 **PhD** in Software, Systems and Computing cum laude

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 • submission 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