Daria Stepanova (Dr. techn.)

Favoritenstraße 9-11 Vienna, Austria **☎** +43 (1) 58801184801 ⊠ daria.stepanova@kr.tuwien.ac.at Curriculum Vitae http://www.kr.tuwien.ac.at/staff/dasha/



Personal Information

Born May 7, 1988 in St. Petersburg, Russia

Nationality Russian

Languages Russian (native speaker), English (proficient user), German (upper-intermediate)

Education

07/11-04/15 PhD student at Vienna University of Technology.

Faculty Informatics

Program Mathematical Logic in Computer Science Thesis Inconsistencies in Hybrid Knowledge Bases

Supervisor O. Univ. Prof. Dr. techn. Thomas Eiter

Co-supervisor Dr. Michael Fink

graduation with distinction

09/05-07/10 Diploma student at St. Petersburg State University.

equiv. to BSc + MSc

Faculty Mathematics and Mechanics

Specialization Applied Informatics

Thesis Computer-aided Resolution of Unsatisfiabilities in Ontologies

Supervisor Prof. Dr. techn. Boris Novikov graduation with distinction

Continuing Education

10/06-07/07 Student at St. Petersburg State University.

Department of Linguistics English for professionals Level completed: advanced

10/11-12/11, Student at Vienna University of Technology. 10/12-12/12

German as a foreign language Levels completed: A 2.1, B 2.2

Work Experience

07/11– Research assistant at Vienna University of Technology, Vienna, Austria. present

Involved in projects:

Reasoning in Hybrid Knowledge Bases (FWF P20840)(2011–2012)

http://www.kr.tuwien.ac.at/research/projects/hybridkb/index.html

Evaluation of ASP Programs with External Source Access (FWF P24090)(2014–2015)

http://www.kr.tuwien.ac.at/research/projects/hexhex/

10/09–06/11 Specialist on system integration at "eKassir", St. Petersburg, Russia.

Company deals with software for payment systems,

Team lead in technical support and remote assistance,

System installation and adjustment on the client's side,

Business trips: Podgorica (Montenegro), Akkra (Ghana).

09/08-03/09 Research intern at Newcastle University, Newcastle-upon-Tyne, UK.

Involved in a project: Trust Economics

https://wiki.cs.ncl.ac.uk/trusteconomics/TrustEconomics

Development of a knowledge-based system prototype for information security decision-making

10/07-08/08, Part-time tutor of English for corporate clients at American Language Mas-04/09-10/09 ters (ALM), *St. Petersburg*, Russia.

Computer skills

Programming Languages

JAVA, C, C++, Turbo Pascal 7.0, java script

Knowledge Based Systems

Description Logics ontologies (Protege, owl-api, owlcpp, Fact++), RDF, RDFS, Answer Set Programming, HEX-programs

Operating Systems

Linux (Ubuntu), Microsoft Windows

Text Processing

LATEX, HTML, Microsoft Office

Additional Computer Experience

- Plugin for Repairing Inconsistent DL-programs (C++) within dlvhex framework https://github.com/hexhex/dlliteplugin
- Participant at 3rd Angry Birds Al competition (http://www.aibirds.org),
 Prague, Czech Republic as a member of the AngryHEX team
 Ranked 7th out of 11 participants
- Knowledge Base for Justified Information Security Decision-making based on ISO 27002 (Information Security Standard) and UCISA Information Security Toolkit (http://www.ucisa.ac.uk/istoolkit) (OWL Ontology Web Language, JOWL Java Script library for visualizing OWL-RDFS documents)
- Diploma thesis project: Computer-aided Resolution of Unsatisfiabilities in Ontologies (Java)

Supervising Bachelor Theses

Andreas Humenberger (graduated April, 2014): Implementing Paracoherent Answer Set Semantics (co-supervised with Dr. Michael Fink)

Talks given at Conferences and Workshops

Towards Practical Deletion Repair of Inconsistent DL-programs

21st European Conference on Artificial Intelligence

Prague, Czech Republic, August, 2014

Towards Practical Deletion Repair of Inconsistent DL-programs

27th International Workshop on Description Logics

Vienna, Austria, July, 2014

Data Repair of Inconsistent DL-programs

23rd Joint International Conference on Artificial Intelligence

Beijing, China, August, 2013

Semantic Independence in DL-programs

6th International Conference on Web Reasoning and Rule Systems

Vienna, Austria, September, 2012

A Knowledge Base for Justified Information Security Decision-making

4th International Conference on Software and Data Technologies

Sofia, Bulgaria, July, 2009

A Knowledge Base for Justified Information Security Decision-making (progress report)

Demos and Posters

Inconsistenies in Hybrid Knowledge Bases (PhD Description)

Poster presentation

14th International Conference on Principles of Knowledge Representation and Reasoning

Vienna, Austria, July, 2014

Exploiting Support Sets for Answer Set Programs with External Evaluations

Poster presentation

28th Conference on Artificial Intelligence

Quebec, Canada, July, 2014

AngryHEX: An Angry Birds-playing Agent based on HEX-Programs

Poster presentation as a member of AngryHex team

Angry Birds AI competition (http://www.aibirds.org)

Prague, Czech Republic, August, 2014

Data Repair of Inconsistent DL-programs

Poster presentation

23rd Joint International Conference on Artificial Intelligence Beijing, China, August, 2013

Reviewing for Journals

- Journal Data Semantics (JoDS): 2015
- Journal of Web Semantics (JWS): 2014

Reviewing for Conferences and Workshops

- International Description Logic Workshop (DL): 2015
- International Workshop on Nonmonotonic Reasoning (NMR): 2014
- International Workshop on Reactive Concepts in Knowledge Representation (RE-ACTKNOW): 2014
- International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR): 2013, 2015
- AAAI Conference on Artificial Intelligence (AAAI): 2013
- o International Semantic Web Conference (ISWC): 2013
- International Conference on Scalable Uncertainty Management (SUM): 2013
- International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR): 2013
- Conference on Knowledge Engineering and Semantic Web (KESW): 2013, 2014, 2015

Program Committee Member

 Conference on Knowledge Engineering and Semantic Web (KESW): 2013, 2014, 2015

Volunteer Work in Organizing Conferences and Public Events

- o Vienna Summer of Logic (VSL 2014), Vienna, Austria, July, 2014
- o Rhythmic Gymnastics European Championship, Vienna, Austria, May-June, 2013
- 25th International Conference on Computer-aided verification (CAV 2013), St. Petersburg, Russia, July, 2013
- 6th International Conference on Web Reasoning and Rule Systems, Vienna, Austria, September, 2012

Publication List

Thomas Eiter, Michael Fink, and Daria Stepanova. Computing repairs for inconsistent DL-programs over EL ontologies. In *Proceedings of the 14th International Conference on Logics in Artificial Intelligence (JELIA 2014), 426-441*, 2014.

Thomas Eiter, Michael Fink, and Daria Stepanova. Towards practical deletion repair of inconsistent DL-programs. In *Proceedings of 21st European Conference on Artificial Intelligence (ECAI 2014), 285-290,* 2014.

Thomas Eiter, Michael Fink, , and Daria Stepanova. Towards practical deletion repair of inconsistent DL-programs. In *Proceedings of the 27th International Workshop on Description Logics (DL workshop 2014), 169-180,* 2014.

Thomas Eiter, Michael Fink, Christoph Redl, and Daria Stepanova. Exploiting support sets for answer set programs with external computations. In *Proceedings of 28th Conference on Artificial Intelligence (AAAI 2014)*, 1041-1048, 2014.

Daria Stepanova. Inconsistencies in hybrid knowledge bases. In *Proceedings of 14th Doctoral Consortium on Knowledge Represenation (DC of KR 2014)*, 2014.

Thomas Eiter, Michael Fink, and Daria Stepanova. Data repair of inconsistent DL-programs. In *Proceedings of 23rd International Joint Conference on Artificial Intelligence (IJCAI 2013)*, 2013.

Thomas Eiter, Michael Fink, and Daria Stepanova. Inconsistency management for Description Logic Programs and beyond. In *Proceedings of 6th International Conference on Web Reasoning and Rule Systems (RR 2013), 1-3,* 2013.

Thomas Eiter, Michael Fink, and Daria Stepanova. Semantic independence in DL-programs. In *Proceedings of 6th International Conference on Web Reasoning and Rule Systems (RR 2012), 58-74*, 2012.

Daria Stepanova, Simon E. Parkin, and Aad van Moorsel. A knowledge base for justified information security decision-making. In *Proceedings of 4th International Conference on Software and Data Technologies (ICSOFT 2009), 326-331*, 2009.

Additional Information

Candidate for Master of Sports (rhythmic gymnastics)

According to the Unified Sports Classification System of Russian Federation

Certified fitness instructor (specialized in group classes)

Hobbies: volleyball, table tennis, ultimate Frisbee, biking.

References

- O. Univ. Prof. Dr. techn. Thomas Eiter

Vienna University of Technology,

 $\label{lem:eq:head} \mbox{Head of the Institute of Information Systems}$

Favoritenstraße 9-11, 1040 Vienna, Austria

Personal website: http://www.kr.tuwien.ac.at/staff/eiter/

Phone: +43 1 58801 18460 Fax: +43 1 58801 18493 Email: eiter@kr.tuwien.ac.at

- Dr. Michael Fink

Vienna University of Technology,

Favoritenstraße 9-11, 1040 Vienna, Austria

Personal website: http://www.kr.tuwien.ac.at/staff/fink/

Phone: +43 1 58801 18465 Fax: +43 1 58801 18493 Email: fink@kr.tuwien.ac.at