

Pavel Klinov - Ph.D. student, Applied Computational Intelligence Laboratory, University of Cincinnati

Background

Research background and interests:

- Symbolic Logic: various types of modal logic, description logic, fuzzy logic, logic of rough inclusion, contextualized logic.
- Soft Computing: fuzzy sets & rough sets, rough fuzzy hybridization, granular computing, approximate reasoning.
- Semantic Web: imprecision management, formal ontologies (representation, reasoning and integration), agents
- Conceptual Structures: formal concept analysis, approximate concept graphs, formal semantics.

Technical background and skills:

- Programming and Mark-up Languages: C/C++/MC++, Java, C#, XML/XSLT/XSD, RDF(S)/OWL
- DBMS: Oracle 8i-9i, T-SQL/PL-SQL

General Information

Citizenship – Russian Federation

Date of Birth: 11/20/1981

Alien Status in the USA: F-1 (international PhD student, University of Cincinnati)

Anticipated Graduation Date – 12/2009

Marital Status: Single

Research Experience

The experience includes research done in the area of reasoning under uncertainty in the Semantic Web. The research has resulted in the developed probabilistic description logic reasoner Pronto¹.

Education History

Ph.D. studies: University of Cincinnati. 2005 – p.t. Overall GPA – 3.9/4.0

BS and M.Sci: Moscow Engineering Physics Institute – MEPhI (State University) Moscow, Russia.

1998 - 2004

Employment History

- Sep 2005 - present. University of Cincinnati. Graduate assistant.
- Jul 2007 – Sep 2007. Clark & Parsia, LLC. Summer Intern.
- Feb 2003 – Sep 2005. European Organization for Nuclear Research (CERN, Geneva, Switzerland). J2EE software engineer, project associate.
- Jul 2001 – Feb 2003. Moscow Real Estate Rights Registering Committee (Moscow, Russia). HyTech SQL database administrator, member of technical staff.
- Mar 2001 – Jul 2001 Computer Systems Design Center (Moscow, Russia). Software engineer

¹ <http://clarkparsia.com/weblog/2007/09/27/introducing-pronto/>

Book Chapters:

1. Julia M. Taylor, Pavel Klinov, Lawrence J. Mazlack [2007], "A Description Logic Based Approach to Computational Humor," in Salvatore Attardo, Diana Popa (eds), *New Approaches to the Linguistics of Humor*, Academic Printing House of our Dunarea de Jos, Rumenia, forthcoming.

Journal Articles:

1. Pavel Klinov, Julia M. Taylor, Lawrence J. Mazlack [2007], "Interval Rough Mereology and Description Logic: An Approach to Formal Treatment of Imprecision in the Semantic Web Ontologies," *Web Intelligence and Agent Systems*, accepted for publication.

Refereed Conference Proceedings

1. "Interval Rough Mereology for Approximating Hierarchical Knowledge," *In Proceedings of Rough Set and Knowledge Technology at Joint Rough Set Symposium*, Toronto, Canada, May 2007. To appear. Co-authored with L.J. Mazlack.
2. "Fuzzy Rough Approach to Handling Imprecision in the Semantic Web Ontologies," *In Proceedings of 25th International Conference of the North American Fuzzy Information Processing Society (NAFIPS)*, Montreal, Canada, June 2006. Co-authored with L.J. Mazlack.
3. "Granulating Semantic Web Ontologies," *In Proceedings of IEEE Conference on Granular Computing*, Atlanta, GA, May 2006. Co-authored with L.J. Mazlack.

Awards

- "Top Five Student Paper Award" for the paper titled "Fuzzy Rough Approach to Handling Imprecision in the Semantic Web Ontologies" presented at NAFIPS 2006, Montreal, Canada
- University of Cincinnati Graduate Scholarship (Sep 2005 - present)