

## Categories and Ontologies for Knowledge Representation Workshop

Summary: Knowledge Representation is a rapidly developing area of Artificial Intelligence, which brings together computer scientists and philosophers. The purpose of this workshop is to explore some applications of Category theory and Ontologies in Knowledge Representation.

Where: Institute of Philosophy of Russian Academy of Sciences (14/5 Volkhonka st., Moscow) Room 525.

Venue: Metro station Kropotkinskaya

When: Wednesday September 17 from 10 A.M. to 7 P.M.

### Schedule:

10:00 - 10:50

Sergei Kavalyaov (ICS RAS)

Category-theoretic models and methods for development of information systems

Coffee Break 15 mins

11:05 - 12:55

Alex Shkotin (Vernadsky Museum)

Ontologies for Petrology

Coffee Break 15 mins

12:10 - 13:00

Andrei Rodin (IP RAS)

Categorical approaches in Knowledge Representation

LUNCH 2h

15:00 - 15:50

Irina Starikova (Sao Paulo U)

Cognitive Representations in Mathematical Reasoning

Coffee Break 15 mins

16:05 - 16:55

Vitaly Khudovakshev (SPBU) (Skype)

Probabilistic Programming and the Generic Approach in Knowledge Representation

Coffee Break 15 mins

17:10 - 18:00

Henson Graves (Lockheed Martin) (Skype)

A Mathematical Framework for Engineering and Science Applications  
(TBC)

18:00 - 19:00

General Discussion