

Pavel Tokmakov

8 rue Thiers
Grenoble, France
✉ pavel.tokmakov@inria.fr
📄 thoth.inrialpes.fr/people/tokmakov

Research

- 2014-2018 **PhD student with Dr. Cordelia Schmid and Dr. Karteek Alahari, Inria THOTH team, Grenoble, France.**
Studying the role of motion in object recognition. The research resulted in both new methods for motion estimation and a novel approach for exploiting motion as a supervisory signal.
- 2013-2014 **MSc student with Prof. Dr. Kristian Kersting, Technical University of Dortmund, Germany.**
Development of Relational Linear Programming (RLP), a novel paradigm for combining linear and logic programming. Designing a language for defining RLPs and implementation of a lifted solver for the language.
- 2012-2014 **Research assistant to Dr. Mario Boley, Fraunhofer IAIS, Germany.**
Development of a novel approach for interactive knowledge discovery. Utilizing co-active learning to capture user preference through interaction and automatically adapt data-mining algorithms to it.

Education

- 2014-2018 **PhD in Computer Science, University of Grenoble, France.**
Topic: Weakly-Supervised Learning for Object Recognition
- 2012-2014 **MSc in Computer Science, University of Bonn, Germany, GPA – 4.0.**
Emphasis on Intelligent Systems
- 2009-2011 **MTech in Automation and Control, ITMO University, Saint-Petersburg, Russia, GPA – 3.64.**
- 2005-2009 **BTech in Automation and Control, ITMO University, Saint-Petersburg, Russia, GPA – 3.69.**

Publications

- 2018 **Learning to Segment Moving Objects.**
International Journal of Computer Vision (IJCV), submitted
Pavel Tokmakov, Cordelia Schmid, Karteek Alahari
- 2017 **Learning Video Object Segmentation with Visual Memory (oral).**
International Conference on Computer Vision (ICCV)
Pavel Tokmakov, Karteek Alahari, Cordelia Schmid
- 2017 **Learning Motion Patterns in Videos.**
Conference on Computer Vision and Pattern Recognition (CVPR)
Pavel Tokmakov, Karteek Alahari, Cordelia Schmid

- 2016 **Weakly-Supervised Semantic Segmentation using Motion Cues.**
European Conference on Computer Vision (ECCV)
Pavel Tokmakov, Karteek Alahari, Cordelia Schmid
- 2015 **Relational Linear Programming.**
Artificial Intelligence Journal (AIJ)
Kristian Kersting, Martin Mladenov, Pavel Tokmakov
- 2013 **One Click Mining - Interactive Local Pattern Discovery through Implicit Preference and Performance Learning.**
KDD Workshop on Interactive Data Exploration and Analytics (IDEA)
Mario Boley, Michael Mampaey, Bo Kang, Pavel Tokmakov and Stefan Wrobel

Teaching

- 2013-2014 **Student project co-supervision**, *University of Bonn*, Germany.
Co-supervising a master student's semester project in Development and Application of Data Mining and Learning Systems. Suggesting directions of research, providing ongoing advice, reviewing the manuscript.

Organizational activities

- 2015 **PhD Day**, *University of Grenoble*, France.
Taking part in organization of a faculty-wide PhD students event. Defining the program, attracting participants, finding speakers from industry and academia, providing on-site support.
- 2013 **Scientific collaboration between two groups**, *University of Bonn*, Germany.
Visiting KU Leuven to organize collaboration with a group working on a related topic. Giving a talk for the faculty, representing my team in meetings and private discussions.

Professional experience

- 2011-2012 **Senior software engineer**, *Kentor East*, Saint Petersburg, Russia.
Outsource development of Java Enterprise applications for Tele2 mobile operator.
- 2008-2010 **Software engineer**, *Exigen Services*, Saint Petersburg, Russia.
Outsource development of Java Enterprise applications for T-Mobile Germany.

Languages

- English **Fluent**
German **Upper intermediate**
French **Intermediate**
Russian **Mothertongue**