Veronika Cheplygina – Curriculum Vitae

Date of birth	[redacted]
Nationality	[redacted]
Contact	[redacted]

Research and work experience

2011-now	PhD researcher Pattern Recognition Laboratory, Delft University of Technology, The Netherlands Thesis title "Dissimilarity-based Multiple Instance Learning".
9/2013- 12/2013	Visiting PhD researcher Machine Learning and Computational Biology group at the Max Planck Institute for Intelligent Systems, Tuebingen, Germany.
2010	Intern at Prime Vision B.V. Research project on classifying parcel images at the post office.
2004-2010	Part-time jobs: programming, webdesign, teaching assistant

Education

2004-2010	MSc degree in Media & Knowledge Engineering Delft University of Technology, The Netherlands Thesis title "Random Subspace Method for One-Class Classifiers" Electives at University of Utrecht, The Netherlands, and Polytechnic University of Madrid, Spain.
1999-2004	Secondary education, International School of The Hague. International Baccalaureate Diploma.

Awards

ERASMUS staff training allowance for visiting the Max Planck Institute in Tuebingen, Germany (2013)

ACM-W/Microsoft travel scholarship for Multiple Classifier Systems workshop (2013)

Honorary member of W.I.S.V. `Christiaan Huygens' (society for mathematics and computer science students) (2009)

Management experience

Board member	Treasurer at soccer club Ariston'80, yearly budget €20,000 (2012-2013) Secretary of the board (full-time) at student society "Christiaan Huygens" (2007-2008)
Committee member	Contact for universities and companies of a study visit to the USA for 30 students (2009) Social and promotional events at Ariston'80 and "Christiaan Huygens" (2004 – 2013) Student council at the International School of the Hague (2003-2004)

Professional activities

Mentor	Role model at Spiegelbeeld (mirror image), a Dutch initiative to promote science and technical subjects among high-school girls (2013 – present) Mentor at kick-off event for MSc students (2011-2012)

Organizer	Workshop on features and structure (FEAST) at the International Conference on Pattern Recognition 2014, https://sites.google.com/site/feast2014/
Reviewer	IEEE Transactions on Pattern Analysis and Machine Intelligence IEEE Transactions on Neural Networks and Learning Systems IEEE Transactions on Knowledge and Data Engineering International Journal on Pattern Recognition and Artificial Intelligence European Symposium on Artificial Neural Networks 2014

Selected talks

Network-guided group feature selection for classification of autism spectrum disorder – Biomediq, Copenhagen, Denmark, March 2014

Classifying autism spectrum disorder using structural brain connectivity - d'Arc: Autism & ADHD research center, University of Amsterdam, The Netherlands, February 2014

On the informativeness of asymmetric dissimilarities - Benelux Conference on Artificial Intelligence, The Netherlands, November 2013

On the informativeness of asymmetric dissimilarities- Similarity-based Pattern Recognition, UK, July 2013

Asymmetry in point set dissimilarities - Benelearn, The Netherlands, June 2013

Combining instance information to classify bags – Multiple Classifier Systems, China, May 2013

Dissimilarity-based multiple instance learning - Machine Learning and Computational Biology group, Max Planck Institute for Intelligent Systems, Germany, March 2013

Bag dissimilarities for multiple instance learning - Benelearn, Belgium, June 2012

Pruned random subspace method for one-class classifiers - Multiple Classifier Systems, Italy, June 2011

Teaching

Supervisor	Co-supervisor (with Jesse Krijthe) of four BSc students during a literature survey (2014) MSc thesis committee member of Dimitrios Palachanis (2014) MSc thesis committee member of Gijs van Tulder (2012)
Lecturer	Advanced Pattern Recognition (PhD level, 2013-2014) Medical Image Analysis (BSc level, 2014)
Teaching assistant	Pattern Recognition (MSc level, 2012-2014) Pattern Recognition for Industry (2011-2013) Advanced Pattern Recognition (PhD level, 2011-2014) Medical Image Analysis (BSc level, 2011) Algorithms and Data Structures (BSc level, 2007)

Publications

Journals:

V. Cheplygina, D. M. J. Tax, and M. Loog. Multiple instance learning with bag dissimilarities. *Pattern Recognition*, accepted, 2014.

W. J. Lee, **V. Cheplygina**, D. M. J. Tax, M. Loog, and R. P. W. Duin. Bridging structure and feature representations in graph matching. *International Journal of Pattern Recognition and Artificial Intelligence*, 26(5), 2012.

Peer-reviewed conferences:

V. Cheplygina, D. M. J. Tax, M. Loog, and A. Feragen. Network guided group feature selection for classification of autism spectrum disorder. *Machine Learning in Medical Imaging, accepted*, 2014.

V. Cheplygina, L. Sørensen , D. M. J. Tax, J. H. Pedersen, M. Loog, and M. de Bruijne. Classification of COPD with multiple instance learning. *International Conference on Pattern Recognition, accepted*, 2014.

Y. Plasencia, **V. Cheplygina**, R. P. W. Duin, E. B. Garcia-Reyes, M. Orozco-Alzate, D. M. J. Tax and M. Loog. On the informativeness of asymmetric dissimilarities. *Similarity-based Pattern Recognition*, pp 75-89, 2013.

V. Cheplygina, D.M.J. Tax, and M. Loog. Combining instance information to classify bags. *Multiple Classifier Systems*, pp 13-24, 2013.

V. Cheplygina, D. M. J. Tax, and M. Loog. Class-dependent dissimilarity measures for multiple instance learning. *Structural, Syntactic, and Statistical Pattern Recognition*, pp 602-610, 2012.

V. Cheplygina, D. M. J. Tax, and M. Loog. Does one rotten apple spoil the whole barrel? *International Conference on Pattern Recognition*, pp 1156-1159, 2012.

D. M. J. Tax, M. Loog, R. P. W. Duin, **V. Cheplygina**, and W. J. Lee. Bag dissimilarities for multiple instance learning. *Similarity-Based Pattern Recognition*, pp 222-234, 2011.

V. Cheplygina and D. M. J. Tax. Pruned random subspace method for one-class classifiers. *Multiple Classifier Systems*, pp 96-105, 2011.

Under review:

V. Cheplygina, D. M. J. Tax, and M. Loog. On classification with bags, groups and sets. *In preparation*, 2014. Preprint: http://arxiv.org/abs/1406.0281

V. Cheplygina, D. M. J. Tax, and M. Loog. Dissimilarity-based ensembles for multiple instance learning. *Submitted to IEEE Transactions on Neural Networks and Learning Systems*, 2014. Preprint: http://arxiv.org/abs/1402.1349

Theses:

V. Cheplygina. Random subspace method for one-class classifiers. MSc thesis, 2010.