Curriculum Vitae

Yuri Kalnishkan

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Employment

2011–now Senior Lecturer, Department of Computer Science, Royal Holloway, University of London;

2003–2011 Lecturer

2001–2003 Research Assistant

Education and Training

2005 Certificate in Academic Practice in Teaching and Learning, Royal Holloway, University of London.

1998–2002 PhD, Department of Computer Science and Computer Learning Research Centre, Royal Holloway, University of London.

1993–1998 MSc in Mathematics and Applied Mathematics, Department of Mechanics and Mathematics, Lomonosov Moscow State University, Russia.

Recent Publications

1. R.Dzhamtyrova and Y.Kalnishkan. Universal algorithms for multinomial logistic regression under Kullback-Leibler game. *Neurocomputing*, in press.

2. R. Dzhamtyrova and Y. Kalnishkan. Competitive Online Generalised Linear Regression with Multidimensional Outputs. In *2019 International Joint Conference on Neural Networks (IJCNN),* IEEE, 2019.

3. R. Dzhamtyrova and Y. Kalnishkan. Competitive Online Regression under Continuous Ranked Probability Score. In *Proceedings of Machine Learning Research*, Vol.105., p. 178-195, Conformal and Probabilistic Prediction and Applications, Golden Sands, Bulgaria, 2019.

4. D. Adamskiy, A. Bellotti, R. Dzhamtyrova, and Y. Kalnishkan. Aggregating Algorithm for prediction of packs. *Machine Learning*, 108, 1231-1260 (2019).

5. M. Bijelic, C. Muench, W. Ritter, Y. Kalnishkan, and K. Dietmayer, Robustness Against Unknown Noise for Raw Data Fusing Neural Networks. In *Proceedings of 21st IEEE International Conference on Intelligent Transportation Systems (IEEE ITSC 2018)*, IEEE Xplore.

6. Y. Kalnishkan. An Upper Bound for Aggregating Algorithm for Regression with Changing Dependencies. In *Proceedings of the International Conference on Algorithmic Learning Theory (pp. 238-252).* Springer, 2016.

7. Y. Kalnishkan. Predictive Complexity for Games with Finite Outcome Spaces. In *Measures of Complexity: Festschrift for Alexey Chervonenkis*, pp. 117-139, Springer, 2015.

8. Y. Kalnishkan, M. V. Vyugin, and V. Vovk. Generalised Entropies and Asymptotic Complexities of Languages. *Information and Computation*, 237, 101-141 (2014).

9. F. Zhdanov and Y. Kalnishkan. An Identity for Kernel Ridge Regression. *Theoretical Computer Science*, 473, 157-178 (2013).

10. A. Chernov, Y. Kalnishkan, F. Zhdanov, and V. Vovk. Supermartingales in Prediction with Expert Advice. *Theoretical Computer Science*, 411(29-30): 2647–2669 (2010)

Research Grants

1. On-line Self-Tuning Learning Algorithms for Handling Historical Information, Leverhulme RPG–2013–047, 2013–2016.

2. Practical competitive prediction (with V. Vovk and A. Gammerman), EPSRC EP/F002998, 2007–2010.

Recent Invited Presentations

- Center for Computational and Data-Intensive Science and Engineering, Skolkovo Institute of Science and Technology, Russia, 2018.
- Daimler AG labs, Ulm, Germany, 2017.
- Institute for Information Transmission Problems, Moscow, Russia, 2016.

Memberships

- The Higher Education Academy: Practitioner 2005-2007, Fellow since 2007.

Teaching and Administration

2013-now The director of MSc programmes at the department of Computer Science, Royal Holloway. Intake: about 100 students