

Igor Trajkovski, Ph.D.

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RESEARCH INTERESTS	Deep Learning, Natural Language Processing, News Aggregation	
EDUCATION	Ph.D. in Computer Science, Department of Knowledge Technologies, Jožef Štefan Institute, Ljubljana, Slovenia Dissertation Topic: "Functional Interpretation of Gene Expression Data"	2005 - 2007
	M.Sc. in Computer Science, Department of Computational Biology and Applied Algorithmics, Max-Planck-Institut für Informatik, Saarbruecken, Germany	2003 - 2004
	B.Sc. in Computer Science, Institute of Informatics, Faculty of Natural Science and Mathematics, Ss. Cyril and Methodius University in Skopje, Skopje, Macedonia	1997 - 2001
EXPERIENCE	Founder / Research and Development, Time.mk, news aggregator, Tajm-Borg Dooel, Skopje, Macedonia	2008 - 2017
	Associate Professor, Faculty of Computer Science and Engineering, Faculty of Electrical Engineering and Information Technologies, Ss. Cyril and Methodius University in Skopje, Skopje, Macedonia Faculty of Computer Science and Information Technology, New York University Skopje, Skopje, Macedonia	2008 - 2016
	Software Engineer Intern, Google Inc., Mountain View, California, USA Google Switzerland GmbH, Zurich, Switzerland	2007, 2008
	Software Engineer, T-Mobile, Skopje, Macedonia	2004 - 2005
	Research & Teaching Assistant, Department for Simulation of Large Systems, University of Stuttgart, Stuttgart, Germany	2002 - 2003
CERTIFICATIONS	Artificial Intelligence Nanodegree, https://confirm.udacity.com/YCJXU4ND	2017
	Deep Learning Nanodegree, https://confirm.udacity.com/SL63XPHD	2017
	Neural Networks for Machine Learning, https://www.coursera.org/account/accomplishments/certificate/LNWZQPLYSNLZ	2016
	Machine Learning, https://www.coursera.org/account/accomplishments/certificate/UTGBMES9FJUN	2016

PROGRAMMING COMPETITIONS	The 24th ACM International Collegiate Programming Contest World Finals , Orlando FL, USA	2000
	2nd Place , Southeastern European Regional ACM International Collegiate Programming Contest, Bucharest, Romania	1999
	Bronze Medal , 4th Balkan Olympiad in Informatics, Nicosia, Cyprus	1996
PUBLICATIONS	Pagerank-like algorithm for ranking news stories and news portals , I. Trajkovski, ICT Innovations Conference, Ohrid, Macedonia, Springer Verlag, September 2013 http://link.springer.com/chapter/10.1007%2F978-3-319-01466-1_8	
	Parallel genetic algorithm for creation of sort algorithms , I. Trajkovski, In Proceedings of 5th International Conference on Computational Collective Intelligence Technologies and Applications, Craiova, Romania, September 2013, Springer Lecture Notes on Artificial Intelligence / LNCS, http://link.springer.com/chapter/10.1007%2F978-3-642-40495-5_37	
	SegMine workflows for semantic microarray data analysis in Orange4WS , V. Podpecen, N. Lavrac, I. Mozetic, I. Trajkovski, P. K. Novak and Coauthors BMC Bioinformatics 2011, 12:416 DOI:10.1186/1471-2105-12-416 http://www.biomedcentral.com/1471-2105/12/416	
	Semantic Data Mining System g-SEGS , A. Vavpetic, I. Trajkovski, P.K. Novak, N. Lavrac, In Proceedings of The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Athens, Greece, 2011. http://www.ifi.uzh.ch/ddis/fileadmin/pdf/kietz/PlanSoKD-proceedings.pdf	
	Using Ontologies in Semantic Data Mining with SEGS and g-SEGS , N. Lavrac, A. Vavpetic, L. Soldatova, I. Trajkovski, P.K. Novak, In Proceedings of the 14th International Conference on Discovery Science, Espoo, Finland, 2011. http://link.springer.com/chapter/10.1007%2F978-3-642-24477-3_15	
	Learning to sort by using evolution , I. Trajkovski, Z. Aleksovski, In Proceedings of the 7th International Conference on Innovations in Information Tech., Abu Dhabi, United Arab Emirates, 2011. http://dx.doi.org/10.1109/INNOVATIONS.2011.5893827	

PUBLICATIONS

Automatic Construction of Wordnets by Using Machine Translation and Language Modeling,

M. Saveski, I. Trajkovski,

In Proceedings of the 13th International Multiconference Information Society (IS 2010), Ljubljana, Slovenia, 2010.

<http://www.time.mk/trajkovski/papers/is2010.pdf>

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P. K. Novak, A. Vavpetic, I. Trajkovski, N. Lavrac,

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Development of an English-Macedonian Machine Readable Dictionary by Using Parallel Corpora,

M. Saveski, I. Trajkovski,

ICT Innovations Conference, Ohrid, Macedonia, 2010.

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Computer generated news site - TIME.mk,

I. Trajkovski,

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Data Mining and Medical Knowledge Management: Cases and Applications,

J. Klema, F. Zelezny, I. Trajkovski, F. Karel, B. Cremilleux and J. Tolar,

Gene Expression Mining Guided by Background Knowledge, IGI Global, 2009.

<http://www.igi-global.com/reference/details.asp?ID=33153&v=tableOfContents>

Towards Service-Oriented Knowledge Discovery: A Case Study,

J. de Bruin, J. Kok, N. Lavrac, and I. Trajkovski

European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Antwerp, Belgium, 2008.

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SEGS: Search for Enriched Gene Sets in Microarray Data,

Trajkovski I., Lavrac N., Tolar J.

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Trajkovski I., Lavrac N.

In Procs 11th Conference on Artificial Intelligence in Medicine, Amsterdam, NL Springer Lecture Notes on Computer Science / LNCS, 2007.

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PUBLICATIONS

Efficient Generation of Biologically Relevant Enriched Gene Sets,

Trajkovski I., Lavrac N.

In Procs Int Symposium on Bioinformatics Research and Applications, Atlanta, USA
Springer Lecture Notes on Bioinformatics / LNCS, 2007.

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Learning Relational Descriptions of Differentially Expressed Gene Groups,

Trajkovski I., Zelezny F., Lavrac N., Tolar J.

IEEE Transactions on Systems, Man, and Cybernetics, 2007.

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Trajkovski I., Zelezny F., Tolar J., Lavrac N.

In Procs 2nd Int Symposium on Computational Life Science, Cambridge, UK
Springer Lecture Notes on Bioinformatics / LNCS, 2006.

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17th European Conference on Artificial Intelligence. Riva del Garda, Italy, 2006.

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Efficient strategies for optimization with genetic algorithms,

Bungartz H. J. and Trajkovski I.

Selcuk Journal of Applied Mathematics, Vol. 3, pp. 3-22, 2002.

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SOFTWARE

TIME.mk (<http://www.time.mk>)

TIME.mk is a computer-generated news site that aggregates headlines from 175 Macedonian-language news sources, groups similar stories together and displays them according to their importance and category of the stories.

SEGS (<http://kt.ijs.si/software/SEGS/>)

SEGS (Search for Enriched Gene Sets) is a web tool for descriptive analysis of gene expression data.

REFERENCES

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