SAVAS YILDIRIM

PERSONAL INFORMATION

Born in Turkey 02 December 1975

email	savasy@gmail.com
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EDUCATION

Post-Doc

2008-2009 Eberhard Karls Universität, Tübingen, Germany

Computational Linguistics
Description: PostDoctoral Visiting Researcher and Lecturer
Topic: Word Sense Disambiguation for German WordNet (GermaNet)

PhD

2003-2008 Computer Engineering, Trakya University

Thesis: Computational Anaphora Resolution for Turkish Document
Advisor: Prof. Dr. Yılmaz Kılıçaslan

Master of Science

1999-2003 Informatics, Istanbul Technical University

Thesis: Decision Tree Algorithms and GUI Design
Advisor: Assoc. Prof. Şakir Kocabaş

Bachelor of Science

1993-1998 Computer Engineering, Istanbul Technical University

Thesis: Observer Design

WORK EXPERIENCE

Ryerson University

2018-Present Visiting Professor DATA SCIENCE LAB

Study for Toronto Stock Exchange (TSX). We utilize financial news to predict stock price changes by applying natural language processing and machine learning.
Courses Taught at Ryerson University · *Deep Learning* · *Machine Learning* · *Database Management*

Istanbul Bilgi University

2010-2018 Assistant Professor COMPUTER ENGINEERING

Taught and studied on data science topics, machine learning and natural language processing. *Machine Learning · Computer Archtitecture · Social Media Analysis*

Mykolas Romeris University

2009 Visiting Lecturer COMPUTER ENGINEERING

Courses taught · *How to Design Programs · Android and Mobile Computing*

The Banks Association of Turkey

2017-2018 Data Science Trainer TRAINING CENTER

Taught courses for Industry: · *Business Intelligence and Data Science · Data Mining Technique for Banking System*

Istanbul Bilgi University

2001-2007 Research Assistant COMPUTER SCIENCE

Taught the courses for Computer Science Department: · *Object Oriented*

Programming · Software Engineering · Data Mining and the Application

2007-2008   Eclipse and Java Trainer IBM

IBM   Taught Introductory courses of Eclipse and Java Programing Languages.

2006   Data Mining Counselling Inforsense

Inforsense
Software Turkey   Taught the courses for InforSense Platform that enables companies to integrate and visualize data sources, information, and analysis processes to come up with predictive insight

1999-2000   Software Developer ITU Project Management Center

ITU   Developed and tested software projects for ITU Project Management Center

2000-2001   Research Assistant Informatics Institute

ITU   Research Assistant at the Informatics Institute

1999-2000   Software Developer and IT Specialist ITU Institute of Science and Technologies

ITU   Software Developer

1998   Summer Internship ITU IT Center

ITU   Summer Internship at the Information Technologies

PUBLICATIONS

Journal Papers and Book Chapters

- Comparing Deep Neural Networks to Traditional Models for Sentiment Analysis in Turkish Language. Algorithms for Intelligent Systems. p 311-319. 2020. doi.org/10.1007/978-981-15-1216-2_12

- **(SSCI)** Improving word embeddings projection for Turkish hypernym extraction. Turkish Journal of Electrical Engineering and Computer Sciences. 4418- 4428, Vol 27, 2019, doi:10.3906/elk-1903-65

- **(SSCI)** News Coverage of the Gulf Crisis in the Turkish Mediascape. International Journal of Communication, 13401367, Vol 13, 2019

- **(TR-Index)** A Comparison of Different Approaches to Document Representation in Turkish Language, SDU Journal of Natural and Applied Science, Vol 22, Issue 2, 2018

- **(TR-Index)** A comparative analysis of text classification for Turkish language, Pamukkale University Journal of Engineering Science Volume 25 Issue 5, 2018

- **(SCI)** Learning Turkish Hypernymy Using Word Embeddings, IJCIS , Atlantis Press, Vol.11 Issue-1, Pages 371-383, 2018

- **(SSCI)** Listening to the organization: change evaluation with discourse analysis, Journal of Organizational Change Management, Emerald Publishing Limited, 2018,

- **(SCI)** A cascaded framework for identification and extraction of antonym for Turkish language, Journal of Soft Computing, Springer, 2018

- The Refugee Crisis in the Croatian Digital News: Towards a Computational Political Economy of Communication, The Political Economy of Communication, 2018, Vol 6 , no 1

- **(SCI)** Turkish synonym identification from multiple resources: monolingual corpus, mono/bilingual on-line dictionaries and WordNet. Turkish Journal of Electrical Engineering and Computer Science, 2016.

- A Study on Turkish Meronym Extraction Using a Variety of Lexico-Syntactic Patterns. Challenges for Computer Science and Linguistics, LTC-13. Lecture Notes in Computer Science, vol 9561. Springer, 2016

- **(SCI)** Acquisition of Turkish meronym based on classification of patterns, Journal of Pattern Analysis and Applications, Volume 19, Issue 2, Springer, 2015

- An Unsupervised Text Normalization Architecture for Turkish Language, Special Issue :Advances in Computational Linguistics, Research in Computing Science, p183194, 2015

- A Knowledge-poor Approach to Turkish Text Categorization with a Comparative Analysis, Proceedings of CICLING 2014, Springer LNCS, Nepal, 2014.

- **(Awarded Paper)** Corpus-Driven Hyponym Acquisition for Turkish, CICLing 2012, Springer LNCS, New Delhi, India.

- Extraction of Part-Whole Relations from Turkish Corpora, Proceedings of CICLING 2013, Springer LNCS, pages 126-138, Samos, Greece, 2013

- **(SCI)** Learning-based pronoun resolution for Turkish with a comparative evaluation, Computer Speech and Language, Volume 23 , Issue 3. Academic Press Ltd 2009

- Pronoun Resolution in Turkish Using Decision Tree and Rule-Based Learning Algorithms, Lecture Notes in Computer Science, Vol. 5603, Springer, 2009.

Conference Publications, Roles, Thesis

- **PC Member**, NLP Track of FLAIRS 2008, Cicling 2015,2016,2017

- **R D Project Referee**, Tubitak TEYDEB, since 2013

- **Reviewer**, IEEE Access Journal, since 2018

- Building Domain-Specific Lexicons: An Application to Financial News, International Conference on Deep Learning and Machine Learning, DeepML-2019, stanbul . IEEE.

- Deep Learning Approaches for Sentiment Analysis on Financial Microblog Dataset, IEEE Big Data, Ca, USA, 2019.

- Measuring Organizational Homophily and Heterophily with Discourse Analytics: a method and business case application, 10. Orgt Kuram Sempozyumu, ubat 2019, Izmir Ekonomi Universitesi

- Classification of "Hot News" for Financial Forecast Using NLP Techniques, International Conference on Big Data, Big Data 2018, IEEE, Seatle, 2018

- Detection of different senses of AI in popular discourse via word embeddings, CICLING 2018, Hanoi, Vietnam, February 2018

- Sentiment Analysis Using Learning Approaches Over Emojis for Turkish Tweets. 2018 UBMK. IEEE.

- Political economy of moral panics: a computational social science analysis. 13th Conference of the European Sociological Association. Athen, Greece, 2017

- Question Classification via Deep Neural Networks, Proceedings of Language and Technology Conference, Poznan, 2017

- A Study on Turkish Meronym Extraction Using a Variety of Lexico-Syntactic Patterns. Challenges for Computer Science and Linguistics, LTC-13. Lecture Notes in Computer Science, vol 9561. Springer, 2016.

- Text Normalization Model for Turkish Language, Proceedings of CICLING 2015, Cairo, Egypt, 2015.

- An Unsupervised Text Normalization Architecture for Turkish Language, Special Issue, Advances in Computational Linguistics , Research in Computing Science, 183194, 2015

- A Knowledge-poor Approach to Turkish Text Categorization with a Comparative Analysis, Proceedings of CICLING 2014, Springer LNCS, Nepal, 2014.

- An Integrated Approach to Automatic Synonym Detection in Turkish Corpus, Advances in Natural Language Processing, Springer, Proceedings of PolTAL 2014, LNAI 8686, Springer, 2014.

- Analysis of Lexico-syntactic Patterns for Meronym Extraction from a Turkish Corpus, in Proceedings of Language & Technology Conference Poznan, Poland, 2013.

- Association Rule based Acquisition of hyponym and hypernym relation from a Turkish Corpus, INISTA 2012, KTU, Turkey

- Automatic Extraction of Turkish Hypernym-Hyponym Pairs From Large Corpus, Proceedings of COLING 2012: Demonstration Papers, pages 493-500, Mumbai IIT, India, Printed by Curran Associates, Inc.

- Istenmeyen Iletilerin paralellestirilmi KNN algoritmasi ile tespiti, Akademik Bilisim 2008, Canakkale, Turkey

- (PhD Thesis) Inductive and Deductive Methods for Turkish Anaphora Resolution, Trakya University, 2008.

- A Machine Learning Approach to Personal Pronoun Resolution in Turkish, AAAI Press, Conference Proceedings, Flairs, 2007.

- A Decision Tree and Rule-based Learning Model for Anaphora Resolution in Turkish, 3rd Language & Technology Conference, 2007.

- A Computational Model for Anaphora Resolution in Turkish via Centering Theory, Conference of IJCI 2005,

- Research on C4.5 As An Inductive Learning Technique. Master Thesis (2003)

RESEARCH PROJECTS

Researcher	Artificial intelligence models for early detection of opioid-related death outbreaks. Statistics Canada and Ryerson University Collaborative Project
Researcher	Toronto Stock Exchange Project, Ryerson University, 2018
Academic Coordinator	Algorithmic research methodologies for the Turkish Twittersphere, 2015
Researcher	MEDBIK: Text Mining for Public Understanding of Science in Turkey (TUBITAK 1001 Funded Project) 2014-2016
Academic Consultancy	Intelligent System for Cash Management, TUBITAK funded project, Biz Cozum Bilgisayar ve Entegrasyon A.S, 2015
Academic Consultancy	Applying Machine Learning to Human Resources, TUBITAK funded project, 2015
Researcher	Get together without barriers, Joint Programming Initiative Urban Europe , 2013
Software Consultancy	Where our neighbors come from ? IKSV Istanbul Tasarim Bienali 2012
Software Consultancy	Monitoring Migrants: Relational Analysis on 1990-2000 Population Census Samples, TUBITAK funded Project, 2012
Software Consultancy	Generations of Istanbul Families and the Social Economy of Elder Care, Bilgi Univ BAP 2012
Software Consultancy	Exhibition: Istanbul 1910-2010: The City, Built Environment and Architectural Culture, 2011

RESEARCH INTEREST, COMPUTER SKILLS, LINKS

Computer Skills	*Python*, *Java*, R-studio, Linux, Prolog, Lisp, PHP, SQL, C++,

Research Interest	Natural Language Processing, Data Science, Deep Learning, Free Software and Open Source, Big Data Analytics, Business Intelligence
Blog	https://openanalitik.wordpress.com/
LinkedIn	https://www.linkedin.com/in/sava-yldrm-8a523516
GitHub	https://github.com/savasy
Kaggle	https://www.kaggle.com/savasy

OTHER INFORMATION

Awards	Awarded Paper · Corpus-Driven Hyponym Acquisition for Turkish, CICLing 2012, Springer LNCS
Languages	ENGLISH · Advanced
Interests	Cinema · Theatre · Yoga · Books · Dancing
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