

Enis Arslan

Senior Computer Engineer. (MBA, MSc and PhD in Computer Engineering)

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ACCOMPLISHMENTS

PUBLICATIONS

Orhan U., Arslan E. (2020), Learning Word-Vector Quantization: A Case Study in Morphological Disambiguation, Transactions on Asian and Low-Resource Language Information Processing (**SCI-E**)

Erenoglu, R. C., Arslan, N., Erenoglu, O., and Arslan, E. (2019). Application of spectral analysis to determine geothermal anomalies in the Tuzla region, NW Turkey. *Arabian Journal of Geosciences*, 12(14), 439. (**SCI-E**)

Arslan, E., and Erenoglu, R. C. (2019). Assessment of hotspots using sparse autoencoder in industrial zones. *Environmental Monitoring and Assessment*, 191(7), 453. (**SCI-E**)

Arslan, E., and Orhan, U. (2019). Identification of OOV words in Turkish texts. *Gaziosmanpaşa Bilimsel Araştırma Dergisi*, 8(2), 35-48.

Arslan, E., Orhan, U., and Tahiroğlu, B. T. (2018). Serbest Sırada Birliktelik İstatistiklerinin Kullanımıyla Türkçe'nin Biçimbirimsel Belirsizliği'nin Giderilmesi. *Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi*, 46-52.

CONFERENCES:

Arslan, E., Orhan, U., and Tahiroğlu, B. T., Morphological Disambiguation Of Turkish With Free-Order Co-Occurrence Statistics. The Third International Conference On Computational Mathematics And Engineering Sciences (CMES-2018), GIRNE, 04-06 MAY 2018.

Arslan E., and Orhan, U. (2017, October). Using Graphs in Construction of a Lemmatization Model for Turkish. In Proc. 2nd International Mediterranean Science and Engineering Congress (IMSEC 2017).

Arslan, E., and Orhan, U. (2016, August). Graph-based lemmatization of Turkish words by using morphological similarity. In 2016

International Symposium on INnovations in Intelligent SysTems and Applications (ve) (pp. 1-5). IEEE.

Arslan, E., Akyokuş, S., and Ganiz, M. C. (2013, June). An application of community discovery in academical social networks. In *2013 IEEE INISTA* (pp. 1-5). IEEE.

PROJECTS

Research Project: Live Turkish Dictionary Design with Weighted Graphs (TUBITAK Project:215E256), 2016-2019 (Completed)

RESEARCH INTEREST

- Machine Learning
 - Deep Learning, Reinforcement Learning
 - Big Data Processing
- Computer Vision
 - GIS
 - Thermal Image Processing, Hotspot detection
- Natural Language Processing (NLP)
 - Morphological Disambiguation, Semantic analysis
- Social Network Analysis (SNA)

COMPUTER SKILLS

Programming /Scripting Languages: Java, Python, Matlab, C/C++, Fortan, Assembly

Libraries: Tensorflow, Keras, NLTK, OpenCV, CUDA,MPI, OpenMP

Database : T-SQL, MySQL, Oracle PL-SQL, NoSQL (MongoDB), Neo4J

Others: Microsoft ETL, SAP MM/SD/HR Systems, BSCS System, Oracle BI

WORK HISTORY

PROJECT ASSISTANT., CUKUROVA UNIVERSITY, ADANA-TURKEY

2016 – 2019

Duties: I was employed as an assistant in Tubitak (Turkish National Science Institute) project. I took part in the feasibility analysis and implementation of the NLP project especially in software implementations and reporting. The public site for the project can be found as:
(canlisozluk.cu.edu.tr)

SENIOR OPERATIONS ENGINEER, TURKCELL İLETİŞİM HİZMETLERİ A.Ş. (GSM) İSTANBUL-TURKEY

2012-2014

Duties: In this company, i was responsible for the Operation of the Dealer Premium system (ICM). I have used a product named Excentive and as technologies, Microsoft SQL, Microsoft ETL, SPs and Functions. I have provided the SOX Compliance of this system.

PROJECT MANAGER, NOBEL İLAÇ A.Ş. (PHARMACEUTICAL), İSTANBUL - TURKEY

2009-2012

Duties: In this company, I was responsible for on-going IT projects. I have analyzed and prepared project plans/documents. I was fully responsible of the management of the projects. I have used Ms. Project, Ms. Visio, Ms. Office and SAP System. I have handled the Contract management of the Projects.

Completed Projects:

- Workflow management system integration.
- Server, Network and Desktop Services Outsourcing & Integration Project (with Atos)
- Network Qualification Project.
- SAP MII Project Analysis
- Field Support Outsourcing (with Atos) Project (Desktop Services).

BSCS DATABASE CONSULTANT, SWISSCOM A.G. (GSM), BERN - SWITZERLAND

2008-2009

Duties: In this company, I was responsible for preparing BSCS (CRM Database for GSM) PL/SQL scripts for a migration project. Additionally, I have prepared some reports for special tasks. I have used Oracle PL/SQL and Unix technologies.

SENIOR FRAUD ENGINEER, AVEA İLETİŞİM HİZMETLERİ A.Ş. (GSM), İSTANBUL - TURKEY

2006-2008

Duties: I was responsible for establishing report management systems. Data loading and analysis systems are being developed and maintained. Oracle PL/SQL and Oracle BI (Siebel), Unix (Crontab) technologies are used for data modeling and presentation.

SYSTEM ANALYST, DIGITURK A.Ş (DIGITAL PLATFORM), İSTANBUL - TURKEY

2004-2006

Duties: I was responsible for the Design and Development and Operation of 3rd party interactive applications by using OpenTV

middleware (C based) on STBs. Oracle PL/SQL is used for database development.

**WEBDESIGNER, TURKCELL İLETİŞİM HİZMETLERİ A.Ş. (GSM)
İSTANBUL-TURKEY**

2000-2001

Duties: Responsible for the implementation and development of corporate Intranet system in Turkcell A.Ş. in order to control the convenience of content and interface.

EDUCATION

**PHD, CUKUROVA UNIVERSITY COMPUTER ENGINEERING,
TURKEY 2015-2020**

Thesis: Learning Word-Vector Quantization: A Study In Morphological Disambiguation Of Turkish

Abstract: In this thesis, we have developed and implemented a vector-space model that solves morphological ambiguity by locating the correct candidates of ambiguous words near to the unambiguous neighbors. The model, named learning word-vector quantization (LWQ), is an adaptation of a well-known learning algorithm, learning vector quantization (LVQ).

**MSC, DOĞUŞ UNIVERSITY COMPUTER ENGINEERING,
ISTANBUL, TURKEY, 2010-2013**

Thesis: Analyzing Social Networks to Discover Cluster Structures in Dblp Database

Abstract: In this thesis, it is aimed to discover social clusters in a social network using social network metrics like degree, clustering coefficient, k-cores, weak and strong components. Two different datasets are used: DBLP and Arxiv High-energy physics theory citation network. Pajek is used as the analysis tool.

MBA, BEYKENT UNIVERSITY, ISTANBUL, TURKEY, 2007-2009

Thesis: Learning Organizations

**BSC, YILDIZ TECHNICAL UNIVERSITY COMPUTER
ENGINEERING, ISTANBUL, TURKEY, 1994-2000**

Thesis: Parallelizing Serial Programs

Abstract: In this thesis it is aimed to develop a converter that will be used for converting a Fortran source code into a parallel working structure. Basically dependency analysis is made and some restructuring algorithms are applied. As a last step, PVM and MPICH parallel comments are used to modify new source code to work in the

parallel system and finally scheduling is succeeded. C is used as programming language.

LANGUAGE

- English (Excellent)
- German (Beginner -Intermediate)
- Italian (Beginner)
- Russian (Beginner)