

## Lect. AYŞE NUR BİRTÜRK

### Personal Information

**Email:** birturk@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/birturk>

### International Researcher IDs

ScholarID: hyJqGeMAAAAJ

ORCID: 0000-0002-5125-070X

Publons / Web Of Science ResearcherID: ABA-4365-2020

ScopusID: 14041100500

Yoksis Researcher ID: 165111

### Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği (Dr), Turkey 1989 - 1998

### Research Areas

Technical Sciences, Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Natural Language Processing, Automated Problem Solving, Theorem Proving and Logical Reasoning

### Academic Titles / Tasks

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1994 - Continues

### Advising Theses

KARAGÖZ P., BİRTÜRK A. N., Improved wind power forecasting using combination methods, Postgraduate, C.ER(Student), 2015

BİRTÜRK A. N., Basin-based clustering of hydroelectric power plants in Turkey by use of stream-flow and hydroelectric energy production data, Postgraduate, Y.ARSLAN(Student), 2015

BİRTÜRK A. N., BoRGo: a book recommender for reading groups, Postgraduate, S.Saçak(Student), 2012

BİRTÜRK A. N., An Ontology based approach to requirements reuse problem in software product lines, Postgraduate, E.Kamer(Student), 2012

BİRTÜRK A. N., An ontology-based hybrid recommendation system using semantic similarity measure and feature weighting, Postgraduate, U.Ceylan(Student), 2011

BİRTÜRK A. N., Tag-based music recommendation systems using semantic relations and multi-domain information, Postgraduate, İ.Tatlı(Student), 2011

BİRTÜRK A. N., Event ordering in Turkish texts, Postgraduate, Y.Karagöl(Student), 2010

BİRTÜRK A. N., A hybrid movie recommender using dynamic fuzzy clustering, Postgraduate, F.Gürçan(Student), 2010

BİRTÜRK A. N., Cross-lingual information retrieval on Turkish and English texts, Postgraduate, A.Boynueğri(Student), 2010

BİRTÜRK A. N., Missing link discovery in wikipedia: a comparative study, Postgraduate, Ö.Sunercan(Student), 2010  
BİRTÜRK A. N., Suggest me a movie: a multi-client movie recommendation application on facebook, Postgraduate, S.Çakiroğlu(Student), 2010  
BİRTÜRK A. N., Crossing: a framework to develop knowledge-based recommenders in cross domains, Postgraduate, M.Azak(Student), 2010  
BİRTÜRK A. N., Enhancing accuracy of hybrid recommender systems through adapting the domain trends, Postgraduate, F.Aksel(Student), 2010  
BİRTÜRK A. N., Openmore: a content-based movie recommendation system, Postgraduate, Ö.Kirmemiş(Student), 2008  
BİRTÜRK A. N., Generating motion-economical plans for manual operations, Postgraduate, Ö.Canan(Student), 2005  
BİRTÜRK A. N., A method for estimation of empty categories and its application to Turkish., Postgraduate, Ç.İskender(Student), 2002

## Refereed Congress / Symposium Publications in Proceedings

- I. **Clustering River Basins Using Time-Series Data Mining on Hydroelectric Energy Generation.**  
Arslan Y., Kucuk D., Eren S., BİRTÜRK A. N.  
DARE@PKDD/ECML 2018, Dublin, Ireland, 10 - 14 September 2018, pp.103-115
- II. **Short-Term Electricity Consumption Forecast using Datasets of Various Granularities**  
ARSLAN Y., ŞİMŞEK DİLBAZ A., ERTEKİN BOLELLİ Ş., KARAGÖZ P., BİRTURK A., Eren S., KÜÇÜK D.  
ECML/PKDD 2018 Int. Workshop on Data Analytics for Renewable Energy Integration (DARE'xx18), 10 September 2018
- III. **Twitter Sentiment Analysis Experiments Using Word Embeddings on Datasets of Various Scales**  
Arslan Y., Kucuk D., BİRTÜRK A. N.  
NLDB 2018, Paris, France, 13 - 15 June 2018, pp.40-47
- IV. **Real-Time Lexicon-Based Sentiment Analysis Experiments On Twitter With A Mild (More Information, Less Data)**  
Arslan Y., Birturk A., Djumabaev B., Kucuk D.  
IEEE International Conference on Big Data (IEEE Big Data), Massachusetts, United States Of America, 11 - 14 December 2017, pp.1892-1897
- V. **Improved Wind Power Forecasting Using Combination Methods**  
KOKSOY C. E., OZKAN M. B., BUHAN S., DEMIRCI T., Arslan Y., Birturk A. N., KARAGÖZ P.  
IEEE 14th International Conference on Machine Learning and Applications ICMLA, Florida, United States Of America, 9 - 11 December 2015, pp.1142-1147
- VI. **BASIN CLUSTERING OF TURKEY BY USE OF MONTHLY STREAM-FLOW DATA**  
ARSLAN Y., Birturk A. N., EREN S.  
IEEE 14th International Conference on Machine Learning and Applications ICMLA, Florida, United States Of America, 9 - 11 December 2015, pp.1169-1174
- VII. **A Hybrid Movie Recommender Using Dynamic Fuzzy Clustering**  
Gurcan F., BİRTÜRK A. N.  
30th International Symposium on Computer and Information Sciences (ISCIS), London, Canada, 21 - 24 September 2015, vol.363, pp.159-169
- VIII. **Ontology-based Software Requirements Reuse: Case Study in Fire Control Software Product Line Domain**  
KARATAS E. K., İYİDIR B., Birturk A. N.  
14th IEEE International Conference on Data Mining (IEEE ICDM), Shenzhen, China, 14 - 17 December 2014, pp.832-839
- IX. **Suggest me a movie: A multi-client movie recommendation application on facebook**  
Cakiroglu S., BİRTÜRK A. N.  
25th International Symposium on Computer and Information Sciences, ISCIS 2010, London, England, 22 - 24 September 2010, vol.62 LNEE, pp.333-338

- X. **Natural Intelligence - Commonsense Question Answering with Conceptual Graphs**  
Guler F. M., Birturk A.  
18th International Conference on Conceptual Structures, Kuching, Malaysia, 26 - 30 July 2010, vol.6208, pp.97-107
- XI. **CROSSING FRAMEWORK A Dynamic Infrastructure to Develop Knowledge-based Recommenders in Cross Domains**  
AZAK M., Birturk A. N.  
6th International Conference on Web Information Systems and Technologies, Valencia, Spain, 7 - 10 April 2010, pp.125-130
- XII. **Wikipedia missing link discovery: A comparative study**  
Sunercan O., BİRTÜRK A. N.  
2010 AAAI Spring Symposium, California, United States Of America, 22 - 24 March 2010, vol.SS-10-07, pp.126-131
- XIII. **MoRe: A user controlled content based movie recommender with explanation and negative feedback**  
Kirmernis O., Birturk A.  
4th International Conference on Web Information Systems and Technologies, Funchal, Portugal, 4 - 07 May 2008, pp.271-274

## Metrics

Publication: 13

Citation (WoS): 20

Citation (Scopus): 28

H-Index (WoS): 3

H-Index (Scopus): 3

## Congress and Symposium Activities

Twitter Sentiment Analysis Experiments Using Word Embeddings on Datasets of Various Scales, Attendee, Paris, France, 2018

## Non Academic Experience

METU

NEC RESEARCH INSTITUTE COMPUTER SCIENCE DIVISION PRINCETON

NEC RESEARCH INSTITUTE COMPUTER SCIENCE DIVISION PRINCETON

NEC RESEARCH INSTITUTE COMPUTER SCIENCE DIVISION PRINCETON

METU

T.IS BANKASI BILGI ISLEM MUDURLUGU