

Res. Asst. PhD AYŞE BERNA ALTINEL GİRGIN

Personal Information

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Education Information

Doctorate, Yıldız Technical University, Bilgisayar Bilimleri Mühendisliği Pr., Turkey 2011 - 2016

Postgraduate, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2004 - 2007

Undergraduate, Yeditepe Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey 2000 - 2004

Biography

Dr. Altinel received her B.S. in Computer Engineering from Yeditepe University in 2004 and M.S. in Computer Engineering from İstanbul Technical University in 2007 respectively. Following this she attained a Ph.D. degree in Computer Engineering from Yıldız Technical University in January 2016. She worked as a Software and Test Engineer at Turkey İş Bank between 2006 and 2009 and Software Analyst & Researcher at TÜBİTAK BİLGEM between 2009 and 2012. She joined Marmara University Computer Engineering Department as a Teaching & Research Assistant in Spring 2013. Dr. Altinel's research interests include Textual Data Mining, Natural Language Processing, Social Network Analysis, Machine Learning, Deep Learning and Bioinformatics.

Dissertations

Doctorate, CORPUS-BASED SEMANTIC KERNELS FOR SUPERVISED AND SEMI-SUPERVISED TEXT CLASSIFICATION, Yıldız Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Bilimleri Mühendisliği Pr., 2015

Postgraduate, A HYBRID MUSIC RECOMMENDATION SYSTEM BASED ON DIFFERENT FEATURES OF THE MUSIC AND USERS, İstanbul Teknik Üniversitesi, Bilgisayar Ve Bilişim Fakültesi, Bilgisayar Mühendisliği Bölümü, 2007

Research Areas

Computer Sciences, Artificial Intelligence, Computer Learning and Pattern Recognition, Knowledge Engineering, Computer Learning, Natural Language Processing, Text/Document Processing, Neural Networks, Software Engineering

Academic Titles / Tasks

Research Assistant PhD, Marmara University, Faculty Of Technology, Computer Engineering, 2020 - Continues
Research Assistant PhD, Marmara University, Faculty Of Engineering, Computer Engineering, 2016 - 2020
Research Assistant, Marmara University, Faculty Of Engineering, Computer Engineering, 2013 - 2016

Courses

Bilgisayar Programlama, Undergraduate, 2021 - 2022
Calculus-2, Undergraduate, 2020 - 2021
Veri İşleme ve Programlama, Undergraduate, 2021 - 2022
Bilgisayar Programlama-2, Undergraduate, 2020 - 2021
Veri Madenciliği, Undergraduate, 2020 - 2021
Bilgisayar Programlama-1, Undergraduate, 2020 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Ranking influencers of social networks by semantic kernels and sentiment information**
Girgin B. A.
EXPERT SYSTEMS WITH APPLICATIONS, vol.171, 2021 (Journal Indexed in SCI)
- II. **Overview of the BioCreative VI Precision Medicine Track: mining protein interactions and mutations for precision medicine**
Dogan R. I. , Kim S., Chatr-aryamontri A., Wei C., Comeau D. C. , Antunes R., Matos S., Chen Q., Elangovan A., Panyam N. C. , et al.
DATABASE-THE JOURNAL OF BIOLOGICAL DATABASES AND CURATION, vol.2019, 2019 (Journal Indexed in SCI)
- III. **Word sense disambiguation using semantic kernels with class-based term values**
Altinel B., GANİZ M. C. , Sipal B., Erkaya E., Yuicedag O. C. , Dogan M. A.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.3180-3194, 2019 (Journal Indexed in SCI)
- IV. **Semantic text classification: A survey of past and recent advances**
Altinel B., GANİZ M. C.
INFORMATION PROCESSING & MANAGEMENT, vol.54, no.6, pp.1129-1153, 2018 (Journal Indexed in SCI)
- V. **Instance labeling in semi-supervised learning with meaning values of words**
Altinel B., GANİZ M. C. , DİRİ B.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.62, pp.152-163, 2017 (Journal Indexed in SCI)
- VI. **A new hybrid semi-supervised algorithm for text classification with class-based semantics**
Altinel B., GANİZ M. C.
KNOWLEDGE-BASED SYSTEMS, vol.108, pp.50-64, 2016 (Journal Indexed in SCI)
- VII. **A novel semantic smoothing kernel for text classification with class-based weighting**
Altinel B., DİRİ B., GANİZ M. C.
KNOWLEDGE-BASED SYSTEMS, vol.89, pp.265-277, 2015 (Journal Indexed in SCI)
- VIII. **A corpus-based semantic kernel for text classification by using meaning values of terms**
Altinel B., GANİZ M. C. , DİRİ B.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.43, pp.54-66, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Identifying Topic-based Opinion Leaders in Social Networks by Content and User Information**
ALTINEL A. B. , HAKKOZ M. A. , BOZDAĞ E. B. , GANİZ M. C.
International Journal of Intelligent Systems and Applications in Engineering, vol.8, no.4, pp.214-220, 2020

(Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **ML-SPD: Machine Learning based Sentiment Polarity Detection**
GRAOVAC J., RADOVIC M., ALTINEL A. B.
In 2020 International Conference on INnovations in Intelligent SysTems and Applications (INISTA), Montenegro, 24 August 2020
- II. **Turkish Tweet Classification with Transformer Encoder**
YÜKSEL A. E., TÜRKMEN A., ÖZGÜR TÜRKMEN A., ALTINEL A. B.
IEEE International Conference Recent Advances In Natural Language Processing (RANLP), 2 - 04 September 2019, pp.1381-1388
- III. **Diffused Label Propagation based Transductive Classification Algorithm for Word Sense Disambiguation**
KOCAMAN G., ŞİPAL B., AYDIN G., ALTINEL A. B., GANİZ M. C.
In 2019 IEEE International Symposium on INnovations in Intelligent SysTems and Applications, 3 - 05 July 2019, pp.1-6
- IV. **Text Classification using Ontology and Semantic Values of Terms for Mining Protein Interactions and Mutations**
ALTINEL A. B., Hüsünbeyi Z. M., ÖZGÜR TÜRKMEN A.
Biocreative VI Workshop, 18 - 20 October 2017
- V. **Hybrid music recommendation based on different dimensions of audio content and an entropy measure**
ÇATALTEPE Z., ALTINEL A. B.
Signal Processing Conference, 2007 15th European, 3 - 07 September 2007
- VI. **A Simple Semantic Kernel Approach for SVM using Higher Order Paths**
ALTINEL A. B., GANİZ M. C., DİRİ B.
INISTA 2014, 23 - 25 June 2014, pp.431-435
- VII. **A Semantic Kernel for Text Classification Based on Iterative Higher Order Relations between Words and Documents**
ALTINEL A. B., GANİZ M. C., DİRİ B.
The 13th International Conference on Artificial Intelligence and Soft Computing, 1 - 05 June 2014, vol.8467, pp.505-517
- VIII. **A Novel Higher Order Semantic Kernel for Text Classification**
ALTINEL A. B., GANİZ M. C., DİRİ B.
ICECCO 2013, 10th International Conference on Electronics, Computer and Computation, 7 - 09 November 2013, pp.216-219
- IX. **Music recommendation based on adaptive feature and user grouping**
ÇATALTEPE Z., ALTINEL A. B.
iscis 2007, 7 - 09 November 2007

Supported Projects

Altinel Girgin A. B., TUBITAK Project, Metinlerin Konusal ve Duygusal Sınıflandırması için Makine Öğrenmesi Algoritmalarının Kullanılması, 2021 - 2023

Altinel Girgin A. B., TUBITAK Project, Mikroblog Ortamlarında Konu Bazlı Kanaat Önderlerinin Tespit Edilmesi, 2017 - 2020

Altinel Girgin A. B., Ganiz M. C., TUBITAK Project, Metin Sınıflandırması için Semantik Gözetimli ve Yarı Gözetimli Kelime Kalıplama Algoritmalarının Geliştirilmesi, 2017 - 2019

Ganiz M. C. , TUBITAK Project, METİNSEL VERİ MADENCİLİĞİ İÇİN ANLAMSAL YARI EĞİTİMLİ ALGORİTMALARIN GELİŞTİRİLMESİProje NO 111E239, 2012 - 2015

Citations

Total Citations (WOS):174

h-index (WOS):7

Non Academic Experience

TUBITAK, BİLGEM, Submarine Defense Systems

Company, Softtech A.Ş. (A Participation of Türkiye İş Bankası), Credit Cards