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Eğitim Bilgileri

Doktora, Northwestern University, Bilgisayar Bilimleri, Amerika Birleşik Devletleri 1989 - 1993

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Mühendislik Ve Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YL) (Tezli), Türkiye 1987 - 1989

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Türkiye 1982 - 1987

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Algoritmalar, Veritabanı ve Veri Yapıları, Yapay Zeka, Bilgisayarda Öğrenme ve Örüntü Tanıma

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2007 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 1997 - 2007

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 1993 - 1997

Yönetilen Tezler

TOROSLU İ. H. , Determining user types from Twitter account content and structure, Yüksek Lisans, M.GÜRLEK(Öğrenci), 2021

TOROSLU İ. H. , Forecasting user behaviors in call detail records using LSTM models, Yüksek Lisans, H.KOCAMAN(Öğrenci), 2021

ÜÇOLUK G., TOROSLU İ. H. , RnR: Reduce and Raise - Bottom-Up Community Detection in Bipartite and Tripartite Graphs,

Yüksek Lisans, K.EKMEKÇİ(Öğrenci), 2019

TOROSLU İ. H. , Son teknoloji mimariler kullanılarak bir tartışmaya katılabilen twitter botu geliştirilmesi., Yüksek Lisans, Y.Mücahit(Öğrenci), 2019

TOROSLU İ. H. , Twitter'dan kişilik analizi., Yüksek Lisans, G.Maviş(Öğrenci), 2019

TOROSLU İ. H. , Forex verisi hareketlenme yönünün teknik ve makroekonomik göstergeler kullanılarak LSTM ile tahminlenmesi., Yüksek Lisans, D.Can(Öğrenci), 2019

TOROSLU İ. H. , Privacy preserving database external layer construction algorithm via secure decomposition for attribute-based security policies, Doktora, U.TURAN(Öğrenci), 2018

ŞEHİTOĞLU O. T. , TOROSLU İ. H. , Forecasting direction of exchange rate fluctuations with two dimensional patterns and currency strength, Doktora, M.Onur(Öğrenci), 2017

KARAGÖZ P., TOROSLU İ. H. , Product and channel prediction for direct marketing in banking sector, Yüksek Lisans, M.MITİK(Öğrenci), 2017

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TOROSLU İ. H. , Heuristic based trading system on Forex data using technical indicator rules, Yüksek Lisans, M.ÖZTÜRK(Öğrenci), 2015

TOROSLU İ. H. , Dynamic modularity based community detection for large scale networks, Yüksek Lisans, R.AKTUNÇ(Öğrenci), 2015

TOROSLU İ. H. , Reco, a hybrid video recommendation system using user behaviours and features of videos, Yüksek Lisans, Ş.BEZEN(Öğrenci), 2014

TOROSLU İ. H. , Extending singular value decomposition based recommendation systems with tags and ontology, Yüksek Lisans, Y.TURGUT(Öğrenci), 2014

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TOROSLU İ. H. , KARAGÖZ P., Efficient rating estimation by using similarity in multi dimensional check-in data, Yüksek Lisans, B.UÇAR(Öğrenci), 2014

KARAGÖZ P., TOROSLU İ. H. , Emotion analysis on Turkish tweets, Yüksek Lisans, S.DEMİRCİ(Öğrenci), 2014

TOROSLU İ. H. , A hybrid geo-activity recommendation system using advanced feature combination and semantic activity similarity, Yüksek Lisans, M.SATTARI(Öğrenci), 2013

TOROSLU İ. H. , Link based limited session reconstruction method for mining web usage data, Yüksek Lisans, B.TIKNAZ(Öğrenci), 2013

TOROSLU İ. H. , An extensible security infrastructure for the secondary use of electronic health records in clinical research, Yüksek Lisans, E.ERYILMAZ(Öğrenci), 2013

TOROSLU İ. H. , A semantic interoperability framework for reinforcing post market safety studies, Doktora, M.YÜKSEL(Öğrenci), 2013

TOROSLU İ. H. , Sentiment analysis of Turkish political columns with transfer learning, Yüksek Lisans, M.KAYA(Öğrenci), 2013

TOROSLU İ. H. , K-way partitioning of signed bipartite graphs, Yüksek Lisans, N.BURAK(Öğrenci), 2012

TOROSLU İ. H. , Toroslu İ., Sağlıkta hasta verisi gizliliği ve önem yönetimi., Yüksek Lisans, E.Alpay(Öğrenci), 2012

TOROSLU İ. H. , Patient privacy and consent management in e-health, Yüksek Lisans, E.ALPAY(Öğrenci), 2012

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- TOROSLU İ. H. , Mining frequent semantic event patterns, Yüksek Lisans, E.SÖZTUTAR(Öğrenci), 2009
- ŞENER C., TOROSLU İ. H. , Parallel CLOSET+ algorithm for finding frequent closed itemsets, Yüksek Lisans, T.ŞEN(Öğrenci), 2009
- TOROSLU İ. H. , Artillery target assignment problem with time dimension, Yüksek Lisans, B.SAPAZ(Öğrenci), 2008
- TOROSLU İ. H. , Eşleştirme problemi ve çeşitleri, Yüksek Lisans, M.Gülek(Öğrenci), 2007
- TOROSLU İ. H. , Genetic algorithm for personnel assignment problem with multiple objectives, Yüksek Lisans, Y.ARSLANOĞLU(Öğrenci), 2006
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- TOROSLU İ. H. , A new hybrid multi-relational data mining technique, Yüksek Lisans, S.DAĞLAR(Öğrenci), 2005
- ÜÇOLUK G., TOROSLU İ. H. , A comparative study of tree encodings for evolutionary computing, Yüksek Lisans, E.SAKA(Öğrenci), 2005
- TOROSLU İ. H. , Specification and scheduling of workflows under resource allocation constraints, Doktora, P.KARAGÖZ(Öğrenci), 2003
- TOROSLU İ. H. , Handling privacy of personal user-context information using service policies and role based user privacy preferences, Yüksek Lisans, A.TÜMER(Öğrenci), 2003
- TOROSLU İ. H. , Data mining using query flocks with views, Yüksek Lisans, M.YETİŞGEN(Öğrenci), 2000
- TOROSLU İ. H. , Data mining using query flocks with views, Yüksek Lisans, M.Yetişgen(Öğrenci), 2000
- TOROSLU İ. H. , A Deductive object-oriented database language, Yüksek Lisans, M.SAVAŞ(Öğrenci), 1997
- ÜÇOLUK G., TOROSLU İ. H. , Turkish text compression using Huffman coding, Yüksek Lisans, Y.Çiftçisoğ(Öğrenci), 1996
- TOROSLU İ. H. , Object algebra in an object oriented data modelinde nesne cebri, Yüksek Lisans, K.ŞAHİN(Öğrenci), 1995
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- TOROSLU İ. H. , Computer aided query formulation, Yüksek Lisans, İ.ÇİÇEK(Öğrenci), 1995
- TOROSLU İ. H. , The study of compression techniques to materialize transitive closures in deductive databases, Yüksek Lisans, K.ÇINKIR(Öğrenci), 1995

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Trust-aware location recommendation in location-based social networks: A graph-based approach**
Canturk D., KARAGÖZ P., Kim S., TOROSLU İ. H.
Expert Systems with Applications, cilt.213, 2023 (SCI-Expanded)
- II. **Maximal paths recipe for constructing Web user sessions**
Bayir M. A. , Toroslu I. H.
World Wide Web, cilt.25, sa.6, ss.2455-2485, 2022 (SCI-Expanded)
- III. **Twitter account classification using account metadata: organization vs. individual**
Çetinkaya Y. M. , Gürlek M., Toroslu İ. H. , Karagöz P.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.30, sa.4, ss.1404-1418, 2022 (SCI-Expanded)
- IV. **A reinforcement learning based algorithm for personalization of digital, just-in-time, adaptive interventions**
Gönül S., Namlı T., Coşar A., TOROSLU İ. H.
Artificial Intelligence in Medicine, cilt.115, 2021 (SCI-Expanded)
- V. **Forecasting directional movement of Forex data using LSTM with technical and macroeconomic indicators**
Yildirim D. C. , TOROSLU İ. H. , Fiore U.
FINANCIAL INNOVATION, cilt.7, sa.1, 2021 (SSCI)

- VI. **Event Detection on Communities: Tracking the Change in Community Structure within Temporal Communication Networks**
Aktunc R., TOROSLU İ. H. , KARAGÖZ P.
PUTTING SOCIAL MEDIA AND NETWORKING DATA IN PRACTICE FOR EDUCATION, PLANNING, PREDICTION AND RECOMMENDATION, ss.75-96, 2020 (SCI-Expanded)
- VII. **A framework for aspect based sentiment analysis on turkish informal texts**
KARAGÖZ P., Kama B., ÖZTÜRK M., TOROSLU İ. H. , Canturk D.
Journal of Intelligent Information Systems, cilt.53, sa.3, ss.431-451, 2019 (SCI-Expanded)
- VIII. **Short-term trend prediction in financial time series data**
Ozorhan M. O. , TOROSLU İ. H. , ŞEHİTOĞLU O. T.
KNOWLEDGE AND INFORMATION SYSTEMS, cilt.61, sa.1, ss.397-429, 2019 (SCI-Expanded)
- IX. **An expandable approach for design and personalization of digital, just-in-time adaptive interventions**
Gonul S., Namli T., Huisman S., Erturkmen G. B. L. , TOROSLU İ. H. , COŞAR A.
JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION, cilt.26, sa.3, ss.198-210, 2019 (SCI-Expanded)
- X. **Triadic co-clustering of users, issues and sentiments in political tweets**
Koc S. S. , Ozer M., TOROSLU İ. H. , Davulcu H., Jordan J.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.100, ss.79-94, 2018 (SCI-Expanded)
- XI. **A strength-biased prediction model for forecasting exchange rates using support vector machines and genetic algorithms**
Ozorhan M. O. , TOROSLU İ. H. , ŞEHİTOĞLU O. T.
SOFT COMPUTING, cilt.21, sa.22, ss.6653-6671, 2017 (SCI-Expanded)
- XII. **Secure logical schema and decomposition algorithm for proactive context dependent attribute based inference control**
Turan U., TOROSLU İ. H. , Kantarcioglu M.
DATA & KNOWLEDGE ENGINEERING, cilt.111, ss.1-21, 2017 (SCI-Expanded)
- XIII. **Task assignment in tree-like hierarchical structures**
EVRENDİLEK C., TOROSLU İ. H. , Hashemikhabir S.
JOURNAL OF COMBINATORIAL OPTIMIZATION, cilt.34, sa.2, ss.631-655, 2017 (SCI-Expanded)
- XIV. **Improving the prediction of page access by using semantically enhanced clustering**
Sen E., TOROSLU İ. H. , KARAGÖZ P.
JOURNAL OF INTELLIGENT INFORMATION SYSTEMS, cilt.47, sa.1, ss.165-192, 2016 (SCI-Expanded)
- XV. **Heuristic based trading system on Forex data using technical indicator rules**
ÖZTÜRK M., TOROSLU İ. H. , Fidan G.
APPLIED SOFT COMPUTING, cilt.43, ss.170-186, 2016 (SCI-Expanded)
- XVI. **Extended feature combination model for recommendations in location-based mobile services**
Sattari M., TOROSLU İ. H. , KARAGÖZ P., Symeonidis P., Manolopoulos Y.
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- XVII. **Comparison of feature-based and image registration-based retrieval of image data using multidimensional data access methods**
Arslan S., YAZICI A., Sacan A., TOROSLU İ. H. , Acar E.
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- XVIII. **Discovering better navigation sequences for the session construction problem**
Bayir M. A. , Toroslu I. H. , Demirbas M., COŞAR A.
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- XIX. **A comparative study on ILP-based concept discovery systems**
Kavurucu Y., Senkul P., TOROSLU İ. H.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.38, sa.9, ss.11598-11607, 2011 (SCI-Expanded)
- XX. **Concept discovery on relational databases: New techniques for search space pruning and rule quality improvement**

- Kavurucu Y., Senkul P., TOROSLU İ. H.
KNOWLEDGE-BASED SYSTEMS, cilt.23, sa.8, ss.743-756, 2010 (SCI-Expanded)
- XXI. **A dynamic programming algorithm for tree-like weighted set packing problem**
Gulek M., TOROSLU İ. H.
INFORMATION SCIENCES, cilt.180, sa.20, ss.3974-3979, 2010 (SCI-Expanded)
- XXII. **A genetic algorithm for maximum-weighted tree matching problem**
Gulek M., TOROSLU İ. H.
APPLIED SOFT COMPUTING, cilt.10, sa.4, ss.1127-1131, 2010 (SCI-Expanded)
- XXIII. **ILP-based concept discovery in multi-relational data mining**
Kavurucu Y., Senkul P., TOROSLU İ. H.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.36, sa.9, ss.11418-11428, 2009 (SCI-Expanded)
- XXIV. **Integrated search and alignment of protein structures**
Sacan A., TOROSLU İ. H. , Ferhatosmanoglu H.
BIOINFORMATICS, cilt.24, sa.24, ss.2872-2879, 2008 (SCI-Expanded)
- XXV. **Authors' response to "an addendum on the incremental assignment problem" by Volgenant**
TOROSLU İ. H. , Ucoluk G.
INFORMATION SCIENCES, cilt.178, sa.23, ss.4584, 2008 (SCI-Expanded)
- XXVI. **Incremental assignment problem**
Toroslu I. H. , Ucoluk G.
INFORMATION SCIENCES, cilt.177, sa.6, ss.1523-1529, 2007 (SCI-Expanded)
- XXVII. **Genetic algorithm for the personnel assignment problem with multiple objectives**
Toroslu I. H. , Arslanoglu Y.
INFORMATION SCIENCES, cilt.177, sa.3, ss.787-803, 2007 (SCI-Expanded)
- XXVIII. **Genetic algorithm for the multiple-query optimization problem**
Bayir M. A. , Toroslu I. H. , Cosar A.
IEEE TRANSACTIONS ON SYSTEMS MAN AND CYBERNETICS PART C-APPLICATIONS AND REVIEWS, cilt.37, sa.1, ss.147-153, 2007 (SCI-Expanded)
- XXIX. **Data management research at the Middle East Technical University**
Cicekli N., Cosar A., Dogac A., Polat F., Senkul P., Toroslu I., Yazici A.
SIGMOD RECORD, cilt.34, sa.3, ss.81-84, 2005 (SCI-Expanded)
- XXX. **An architecture for workflow scheduling under resource allocation constraints**
Senkul P., Toroslu I.
INFORMATION SYSTEMS, cilt.30, sa.5, ss.399-422, 2005 (SCI-Expanded)
- XXXI. **Data mining in deductive databases using query flocks**
Toroslu I., Yetisgen-Yildiz M.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.28, sa.3, ss.395-407, 2005 (SCI-Expanded)
- XXXII. **A semantic-based user privacy protection framework for Web services**
Tumer A., Dogac A., Toroslu I.
INTELLIGENT TECHNIQUES FOR WEB PERSONALIZATION, cilt.3169, ss.289-305, 2005 (SCI-Expanded)
- XXXIII. **Dynamic programming solution for multiple query optimization problem**
Toroslu I., Cosar A.
INFORMATION PROCESSING LETTERS, cilt.92, sa.3, ss.149-155, 2004 (SCI-Expanded)
- XXXIV. **Repetition support and mining cyclic patterns**
Toroslu I.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.25, sa.3, ss.303-311, 2003 (SCI-Expanded)
- XXXV. **Personnel assignment problem with hierarchical ordering constraints**
Toroslu I.
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- XXXVI. **Automatic reconstruction of broken 3-D surface objects**
Ucoluk G., Toroslu I.
COMPUTERS & GRAPHICS-UK, cilt.23, sa.4, ss.573-582, 1999 (SCI-Expanded)

- XXXVII. **LPL++: Object logic programming language with built-in inheritance through unification**
Toroslu I.
DATA BASE FOR ADVANCES IN INFORMATION SYSTEMS, cilt.29, sa.2, ss.50-61, 1998 (SCI-Expanded)
- XXXVIII. **A genetic algorithm approach for verification of the syllable-based text compression technique**
Ucoluk G., Toroslu I.
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- XXXIX. **The strong partial transitive-closure problem: Algorithms and performance evaluation**
Toroslu I., Qadah G.
IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, cilt.8, sa.4, ss.617-629, 1996 (SCI-Expanded)
- XL. **AN EFFICIENT DATABASE TRANSITIVE CLOSURE ALGORITHM**
TOROSLU I., QADAH G., HENSCHEN L.
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Diğer Dergilerde Yayınlanan Makaleler

- I. **Personality Analysis Using Classification on Turkish Tweets**
Mavis G., TOROSLU İ. H. , KARAGÖZ P.
International Journal of Cognitive Informatics and Natural Intelligence, cilt.15, 2021 (ESCI)
- II. **Comparison of Integer Linear Programming and Dynamic Programming Approaches for ATM Cash Replenishment Optimization Problem**
Ozer F., TOROSLU İ. H. , KARAGÖZ P.
INTERNATIONAL JOURNAL OF APPLIED METAHEURISTIC COMPUTING, cilt.11, sa.3, ss.120-132, 2020 (ESCI)
- III. **Developing a Twitter bot that can join a discussion using state-of-the-art architectures**
Çetinkaya Y. M. , Toroslu I. H. , Davulcu H.
SOCIAL NETWORK ANALYSIS AND MINING, cilt.10, sa.1, 2020 (Hakemli Dergi)
- IV. **Data Mining Approach for Direct Marketing of Banking Products with Profit/Cost Analysis**
Mitik M., Korkmaz O., KARAGÖZ P., TOROSLU İ. H. , Yucel F.
REVIEW OF SOCIONETWORK STRATEGIES, cilt.11, sa.1, ss.17-31, 2017 (ESCI)
- V. **2009 24th International Symposium on Computer and Information Sciences, ISCIS 2009: Preface**
Vural F. Y. , Yazici A., Toroslu H., Can T., Şenkul P., Saçan A.
2009 24th International Symposium on Computer and Information Sciences, ISCIS 2009, 2009 (Scopus)
- VI. **Discovering More Accurate Frequent Web Usage Patterns**
BAYIR M. A. , TOROSLU İ. H. , COŞAR A., FİDAN G.
ARXIV, 2008 (Hakemsiz Dergi)

Kitap & Kitap Bölümleri

- I. **Event Detection on Communities: Tracking the Change in Community Structure within Temporal Communication Networks**
Aktunç R., TOROSLU İ. H. , KARAGÖZ P.
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- II. **A Network-Based Model for Predicting Hashtag Breakouts in Twitter**
Alzahrani S., Alashri S., Koppela A. R. , Davulcu H., TOROSLU İ. H.
Social Computing Behavioral Cultural Modeling and Prediction, Agrawal N., Xu K., Osgood N., Editör, Springer, ss.3-12, 2015
- III. **Location Prediction of Mobile Phone Users Using Apriori-Based Sequence Mining with Multiple Support Thresholds**
Keleş I., Özer M., TOROSLU İ. H. , KARAGÖZ P.

New Frontiers in Mining Complex Patterns, A. Appice, M. Ceci, C. Loglisci, G. Manco, E. Masciari and Z. W. Ras, Editör, Springer, ss.179-193, 2015

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Keleş İ., Özer M., Toroslu İ. H. , Karagöz P.

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. ATM Withdrawal Amount Forecasting Through Neural Architectures

Baran O. B. , Sunel S., Karagöz P., Toroslu İ. H.

IEEE International Conference on Big Data, Los-Angeles, Şili, 9 - 12 Aralık 2019

II. Clustering based personality prediction on turkish tweets

Tutaysalgir E., Karagöz P., Toroslu İ. H.

Proceedings of the 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining, Vancouver, Kanada, 27 - 30 Ağustos 2019, ss.825-828

III. Dynamic Programming Solution to ATM Cash Replenishment Optimization Problem

Ozer F., TOROSLU İ. H. , KARAGÖZ P., Yucel F.

1st International Conference on Intelligent Computing and Optimization (ICO), Pattaya, Tayland, 4 - 05 Ekim 2018, cilt.866, ss.428-437

IV. Dynamic Programming Solution to ATM Cash Replenishment Optimization Problem,, Pattaya, Thailand, Oct. 4-5, 2018.

Özer F., Toroslu İ. H. , Karagöz P., Yucel F.

Int Conf. on Intelligent Computing and Optimization, Pattani, Tayland, 4 - 05 Ekim 2018

V. Event Detection by Change Tracking on Community Structure of Temporal Networks

Aktunc R., Toroslu İ. H. , Karagöz P.

IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Barcelona, İspanya, 28 - 31 Ağustos 2018, ss.928-931

VI. Optimization of Just-in-Time Adaptive Interventions Using Reinforcement Learning

Gonul S., Namli T., Baskaya M., Sinaci A. A. , COŞAR A., TOROSLU İ. H.

31st International Conference on Industrial Engineering and Other Applications of Applied Intelligent Systems (IEA/AIE), Montreal, Kanada, 25 - 28 Haziran 2018, cilt.10868, ss.334-341

VII. Analyzing Implicit Aspects and Aspect Dependent Sentiment Polarity for Aspect-based Sentiment Analysis on Informal Turkish Texts

Kama B., ÖZTÜRK M., KARAGÖZ P., TOROSLU İ. H. , Kalender M.

9th International Conference on Management of Emergent Digital EcoSystems (MEDES), Bangkok, Tayland, 7 - 09 Kasım 2017, ss.134-141

VIII. Data Mining based Product Marketing Technique for Banking Products

Mitik M., Korkmaz O., KARAGÖZ P., TOROSLU İ. H. , Yucel F.

16th IEEE International Conference on Data Mining (ICDM), Barcelona, İspanya, 12 - 15 Aralık 2016, ss.552-559

IX. A Web Search Enhanced Feature Extraction Method for Aspect-Based Sentiment Analysis for Turkish Informal Texts

Kama B., ÖZTÜRK M., KARAGÖZ P., TOROSLU İ. H. , Ozay O.

18th International Conference on Data Warehousing and Knowledge Discovery (DAWAK), Porto, Portekiz, 6 - 08 Eylül 2016, cilt.9829, ss.225-238

X. Co-Clustering Signed 3-Partite Graphs

Koc S. S. , Toroslu I. H. , Davulcu H.

8th IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), San-Francisco, Kostarika, 18 - 21 Ağustos 2016, ss.945-948

- XI. **Finding All Maximal Paths In Web User Sessions**
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Metrikler

Yayın: 100

Atf (WoS): 580

Atf (Scopus): 797

H-İndeks (WoS): 14

H-İndeks (Scopus): 17

Ödüller

Karagöz P., Toroslu İ. H. , En iyi bildiri ödülü , Int. Conf On Intelligent Computing And Optimization, Ekim 2018