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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

TOROSLU İ. H., ÜÇOLUK G., 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

TOROSLU İ. H., ŞEHİTOĞLU O. T., 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., KARAGÖZ P., Data mining approach for direct marketing of banking products with profit/cost analysis, Yüksek Lisans, O.KORKMAZ(Öğrenci), 2017

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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

TOROSLU İ. H., A new collaborative filtering algorithm using near-clique bipartite graph clusters, Yüksek Lisans, H.YILDIZ(Öğrenci), 2014

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TOROSLU İ. H., Methods for location prediction of mobile phone users, Yüksek Lisans, İ.KELEŞ(Öğrenci), 2014

TOROSLU İ. H., KARAGÖZ P., Predicting the location and time of mobile phone users by using sequential pattern mining techniques, Yüksek Lisans, M.ÖZER(Öğrenci), 2014

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

TOROSLU İ. H., KARAGÖZ P., 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

TOROSLU İ. H., KARAGÖZ P., Clustering frequent navigation patterns from website logs using ontology and temporal information, Yüksek Lisans, S.KILIÇ(Öğrenci), 2011

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- TOROSLU İ. H., Mining frequent semantic event patterns, Yüksek Lisans, E.SÖZTUTAR(Öğrenci), 2009
- TOROSLU İ. H., ŞENER C., 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
- TOROSLU İ. H., A new reactive method for processing web usage data, Yüksek Lisans, M.ALİ(Öğrenci), 2006
- TOROSLU İ. H., A new hybrid multi-relational data mining technique, Yüksek Lisans, S.DAĞLAR(Öğrenci), 2005
- TOROSLU İ. H., ÜÇOLUK G., 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
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- 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
- TOROSLU İ. H., The study of compression techniques to materialize transitive closures in deductive database, Yüksek Lisans, K.Çınkır(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. **A Comparative Study of Contemporary Learning Paradigms in Bug Report Priority Detection**
Yılmaz E. H., TOROSLU İ. H., Koksal O.
IEEE Access, cilt.12, ss.126577-126586, 2024 (SCI-Expanded)
- II. **Towards a Programmable Humanizing AI through Scalable Stance-Directed Architecture**
ÇETİNKAYA Y. M., Lee Y., KÜLAH E., TOROSLU İ. H., Cowan M. A., Davulcu H.
IEEE Internet Computing, 2024 (SCI-Expanded)
- III. **Traffic signal optimization using multiobjective linear programming for oversaturated traffic conditions**
Coşkun M. M., ŞENER C., TOROSLU İ. H.
Turkish Journal of Electrical Engineering and Computer Sciences, cilt.32, sa.1, ss.1-20, 2024 (SCI-Expanded)
- IV. **The Floyd-Warshall all-pairs shortest paths algorithm for disconnected and very sparse graphs**
TOROSLU İ. H.
Software - Practice and Experience, cilt.53, sa.6, ss.1287-1303, 2023 (SCI-Expanded)
- V. **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)
- VI. **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)

- VII. **Twitter account classification using account metadata: organization vs. individual**
Çetinkaya Y. M., Gürlek M., Toroslu I. H., Karagöz P.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.30, sa.4, ss.1404-1418, 2022 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **An expandable approach for design and personalization of digital, just-in-time adaptive interventions**
Gonul S., Namlı 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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **Heuristic based trading system on Forex data using technical indicator rules**
ÖZTÜRK M., TOROSLU İ. H., Fidan G.
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- XX. **Extended feature combination model for recommendations in location-based mobile services**
Sattari M., TOROSLU İ. H., KARAGÖZ P., Symeonidis P., Manolopoulos Y.

- KNOWLEDGE AND INFORMATION SYSTEMS, cilt.44, sa.3, ss.629-661, 2015 (SCI-Expanded)
- XXI. **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.
DATA & KNOWLEDGE ENGINEERING, cilt.86, ss.124-145, 2013 (SCI-Expanded)
- XXII. **Discovering better navigation sequences for the session construction problem**
Bayir M. A., Toroslu I. H., Demirbas M., COŞAR A.
DATA & KNOWLEDGE ENGINEERING, cilt.73, ss.58-72, 2012 (SCI-Expanded)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Authors' response to "an addendum on the incremental assignment problem" by Volgenant**
TOROSLU İ. H., Ueçoluk G.
INFORMATION SCIENCES, cilt.178, sa.23, ss.4584, 2008 (SCI-Expanded)
- XXX. **Incremental assignment problem**
Toroslu I. H., Ueçoluk G.
INFORMATION SCIENCES, cilt.177, sa.6, ss.1523-1529, 2007 (SCI-Expanded)
- XXXI. **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)
- XXXII. **Genetic algorithm for the multiple-query optimization problem**
Bayir M. A., Toroslu I. H., Cosar A.
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- XXXIII. **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)
- XXXIV. **An architecture for workflow scheduling under resource allocation constraints**
Senkul P., Toroslu I.
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- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Repetition support and mining cyclic patterns**
Toroslu I.
EXPERT SYSTEMS WITH APPLICATIONS, cilt.25, sa.3, ss.303-311, 2003 (SCI-Expanded)
- XXXIX. **Personnel assignment problem with hierarchical ordering constraints**
Toroslu I.
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- XL. **Automatic reconstruction of broken 3-D surface objects**
Ucoluk G., Toroslu I.
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- XLI. **LPL++: Object logic programming language with built-in inheritance through unification**
Toroslu I.
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- XLII. **A genetic algorithm approach for verification of the syllable-based text compression technique**
Ucoluk G., Toroslu I.
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- XLIII. **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)
- XLIV. **AN EFFICIENT DATABASE TRANSITIVE CLOSURE ALGORITHM**
TOROSLU I., QADAH G., HENSCHEN L.
APPLIED INTELLIGENCE, cilt.4, sa.2, ss.205-218, 1994 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Targeted marketing on social media: utilizing text analysis to create personalized landing pages**
Çetinkaya Y. M., Külah E., Toroslu İ. H., Davulcu H.
Social Network Analysis and Mining, cilt.14, sa.14, ss.1-15, 2024 (ESCI)
- II. **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)
- III. **Developing a Twitter bot that can join a discussion using state-of-the-art architectures**
Çetinkaya Y. M., Toroslu İ. H., Davulcu H.
SOCIAL NETWORK ANALYSIS AND MINING, cilt.10, sa.1, 2020 (Hakemli Dergi)
- IV. **Comparison of Integer Linear Programming and Dynamic Programming Approaches for ATM Cash Replenishment Optimization Problem**
Ozer F., TOROSLU İ. H., KARAGÖZ P.
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- V. **Data Mining Approach for Direct Marketing of Banking Products with Profit/Cost Analysis**
Mitik M., Korkmaz O., KARAGÖZ P., TOROSLU İ. H., Yucel F.
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- VI. **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)
- VII. **Discovering More Accurate Frequent Web Usage Patterns**
BAYIR M. A., TOROSLU İ. H., COŞAR A., FİDAN G.
ARXIV, 2008 (Hakemsiz Dergi)

- VIII. **Üniversite öğretim üyelerinin internet üzerinden eğitim konusundaki görüşleri**
KILIÇ E., BARAN B., BAKAR ÇÖREZ A., ÇAĞILTAY K., KONUKSEVEN E. İ., Yalabık N., TOROSLU İ. H.
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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.
Putting Social Media and Networking Data in Practice for Education, Planning, Prediction and Recommendation, Mehmet KayaŞuayip BirinciJalal KawashReda Alhajj, Editör, Springer Cham, ss.75-96, 2020
- 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 İ., 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
- IV. **Location Prediction of Mobile Phone Users Using Apriori-Based Sequence Mining with Multiple Support Thresholds**
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New Frontiers in Mining Complex Patterns, A. Appice, M. Ceci, C. Loglisci, G. Manco, E. Masciari and Z. W. Ras, Editör, Springer, New York, ss.179-193, 2015

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **IndexAI: AI Based Index Selection for NoSQL Databases**
Khosravi M. M., KARAGÖZ P., TOROSLU İ. H.
IEEE International Conference on Big Data (IEEE Big Data 2023), SORRENTO, İtalya, 15 - 18 Aralık 2023
- II. **Fusion Enhanced Click-Through-Rate Prediction Füzyon Güçlendirmeli Tıklama Oranı Tahmini**
Bayraktar M., Gökce F. C., Aksu D., Altıngövde İ. S., Karagöz P., Toroslu İ. H.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Türkiye, 5 - 08 Temmuz 2023
- III. **Autonomous Visual Moderation System (AutoMod) Otonom Görsel Moderasyon Sistemi (AutoMod)**
Bahtiyar H., Katipoğlu B. İ., Yüksel E., Toroslu İ. H., Karagöz P.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Türkiye, 5 - 08 Temmuz 2023
- IV. **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
- V. **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
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