

Prof. İSMAİL HAKKI TOROSLU

Personal Information

Office Phone: [+90 312 210 5585](tel:+903122105585)

Fax Phone: [+90 312 210 5544](tel:+903122105544)

Email: toroslu@metu.edu.tr

Web: <http://www.ceng.metu.edu.tr/~toroslu>

Address: Bilgisayar Müh. Böl., ODTÜ; Çankaya 06800 Ankara

International Researcher IDs

ScholarID: nYjII0AAAAAJ

ORCID: 0000-0002-4524-8232

Publons / Web Of Science ResearcherID: Q-5390-2019

ScopusID: 6603451626

Yoksis Researcher ID: 2108

Education Information

Doctorate, Northwestern University, Bilgisayar Bilimleri, United States Of America 1989 - 1993

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 1987 - 1989

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 1982 - 1987

Foreign Languages

English, C1 Advanced

Research Areas

algorithms, Database and Data Structures, Artificial Intelligence, Computer Learning and Pattern Recognition

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2007 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1997 - 2007

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 1993 - 1997

Advising Theses

TOROSLU İ. H., Determining user types from Twitter account content and structure, Postgraduate, M.GÜRLEK(Student),

2021

- TOROSLU İ. H., Forecasting user behaviors in call detail records using LSTM models, Postgraduate, H.KOCAMAN(Student), 2021
- TOROSLU İ. H., ÜÇOLUK G., RnR: Reduce and Raise - Bottom-Up Community Detection in Bipartite and Tripartite Graphs, Postgraduate, KEKMEKÇİ(Student), 2019
- TOROSLU İ. H., Developing a twitter bot that can join a discussion using state-of-the-art architectures, Postgraduate, Y.Mücahit(Student), 2019
- TOROSLU İ. H., Classification based personality analysis on Turkish tweets, Postgraduate, G.Maviş(Student), 2019
- TOROSLU İ. H., Forecasting directional movement of forex data using LSTM with technical and macroeconomic indicators, Postgraduate, D.Can(Student), 2019
- TOROSLU İ. H., Privacy preserving database external layer construction algorithm via secure decomposition for attribute-based security policies, Doctorate, U.TURAN(Student), 2018
- TOROSLU İ. H., ŞEHİTOĞLU O. T., Forecasting direction of exchange rate fluctuations with two dimensional patterns and currency strength, Doctorate, M.Onur(Student), 2017
- KARAGÖZ P., TOROSLU İ. H., Product and channel prediction for direct marketing in banking sector, Postgraduate, M.MITIK(Student), 2017
- TOROSLU İ. H., Co-clustering signed 3-partite graphs, Postgraduate, S.ŞAHİN(Student), 2017
- TOROSLU İ. H., KARAGÖZ P., Data mining approach for direct marketing of banking products with profit/cost analysis, Postgraduate, O.KORKMAZ(Student), 2017
- TOROSLU İ. H., KARAGÖZ P., Feature based sentiment analysis on informal Turkish texts, Postgraduate, B.KAMA(Student), 2016
- TOROSLU İ. H., Heuristic based trading system on Forex data using technical indicator rules, Postgraduate, M.ÖZTÜRK(Student), 2015
- TOROSLU İ. H., Dynamic modularity based community detection for large scale networks, Postgraduate, R.AKTUNÇ(Student), 2015
- TOROSLU İ. H., Reco, a hybrid video recommendation system using user behaviours and features of videos, Postgraduate, Ş.BEZEN(Student), 2014
- TOROSLU İ. H., Extending singular value decomposition based recommendation systems with tags and ontology, Postgraduate, Y.TURGUT(Student), 2014
- TOROSLU İ. H., A new collaborative filtering algorithm using near-clique bipartite graph clusters, Postgraduate, H.YILDIZ(Student), 2014
- TOROSLU İ. H., KARAGÖZ P., Improving the prediction of page access by using semantically enhanced clustering, Postgraduate, E.ŞEN(Student), 2014
- TOROSLU İ. H., Methods for location prediction of mobile phone users, Postgraduate, İ.KELEŞ(Student), 2014
- TOROSLU İ. H., KARAGÖZ P., Predicting the location and time of mobile phone users by using sequential pattern mining techniques, Postgraduate, M.ÖZER(Student), 2014
- TOROSLU İ. H., KARAGÖZ P., Efficient rating estimation by using similarity in multi-dimensional check-in data, Postgraduate, B.UÇAR(Student), 2014
- TOROSLU İ. H., KARAGÖZ P., Emotion analysis on Turkish tweets, Postgraduate, S.DEMİRCİ(Student), 2014
- TOROSLU İ. H., A hybrid geo-activity recommendation system using advanced feature combination and semantic activity similarity, Postgraduate, M.SATTARI(Student), 2013
- TOROSLU İ. H., Link based limited session reconstruction method for mining web usage data, Postgraduate, B.TIKNAZ(Student), 2013
- TOROSLU İ. H., An extensible security infrastructure for the secondary use of electronic health records in clinical research, Postgraduate, E.ERYILMAZ(Student), 2013
- TOROSLU İ. H., A semantic interoperability framework for reinforcing post market safety studies, Doctorate, M.YÜKSEL(Student), 2013
- TOROSLU İ. H., Sentiment analysis of Turkish political columns with transfer learning, Postgraduate, M.KAYA(Student), 2013
- TOROSLU İ. H., K-way partitioning of signed bipartite graphs, Postgraduate, N.BURAK(Student), 2012
- TOROSLU İ. H., Toroslu İ., Patient privacy and consent management in health, Postgraduate, E.Alpay(Student), 2012

TOROSLU İ. H., Patient privacy and consent management in e-health, Postgraduate, E.ALPAZ(Student), 2012

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

TOROSLU İ. H., A singular value decomposition approach for recommendation systems, Postgraduate, O.NURİ(Student), 2010

TOROSLU İ. H., Mining frequent semantic event patterns, Postgraduate, E.SÖZTUTAR(Student), 2009

TOROSLU İ. H., ŞENER C., Parallel CLOSET+ algorithm for finding frequent closed itemsets, Postgraduate, T.ŞEN(Student), 2009

TOROSLU İ. H., Artillery target assignment problem with time dimension, Postgraduate, B.SAPAZ(Student), 2008

TOROSLU İ. H., Assignment problem and its variations, Postgraduate, M.Gülek(Student), 2007

TOROSLU İ. H., Genetic algorithm for personnel assignment problem with multiple objectives, Postgraduate, Y.ARSLANOĞLU(Student), 2006

TOROSLU İ. H., A new reactive method for processing web usage data, Postgraduate, M.ALİ(Student), 2006

TOROSLU İ. H., A new hybrid multi-relational data mining technique, Postgraduate, S.DAĞLAR(Student), 2005

TOROSLU İ. H., ÜÇOLUK G., A comparative study of tree encodings for evolutionary computing, Postgraduate, E.SAKA(Student), 2005

TOROSLU İ. H., Specification and scheduling of workflows under resource allocation constraints, Doctorate, P.KARAGÖZ(Student), 2003

TOROSLU İ. H., Handling privacy of personal user-context information using service policies and role based user privacy preferences, Postgraduate, A.TÜMER(Student), 2003

TOROSLU İ. H., Data mining using query flocks with views, Postgraduate, M.YETİŞGEN(Student), 2000

TOROSLU İ. H., Data mining using query flocks with views, Postgraduate, M.Yetişgen(Student), 2000

TOROSLU İ. H., A Deductive object-oriented database language, Postgraduate, M.SAVAŞ(Student), 1997

ÜÇOLUK G., TOROSLU İ. H., Turkish text compression using Huffman coding, Postgraduate, Y.Ciftçisoy(Student), 1996

TOROSLU İ. H., Object algebra in an object oriented data modelinde nesne cebri, Postgraduate, K.ŞAHİN(Student), 1995

TOROSLU İ. H., The study of compression techniques to materialize transitive closures in deductive database, Postgraduate, K.Çınkır(Student), 1995

TOROSLU İ. H., Object algebra in an object-oriented data model, Postgraduate, K.Şahin(Student), 1995

TOROSLU İ. H., A Study of the some generation query in deluctive databases, Postgraduate, N.ARMAN(Student), 1995

TOROSLU İ. H., A study of the same generation query in deductive databases, Postgraduate, N.Arman(Student), 1995

TOROSLU İ. H., Computer aided query formulation, Postgraduate, İ.ÇİÇEK(Student), 1995

TOROSLU İ. H., The study of compression techniques to materialize transitive closures in deductive databases, Postgraduate, K.ÇINKIR(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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, vol.32, no.1, pp.1-20, 2024 (SCI-Expanded)
- II. **The Floyd-Warshall all-pairs shortest paths algorithm for disconnected and very sparse graphs**
TOROSLU İ. H.
Software - Practice and Experience, vol.53, no.6, pp.1287-1303, 2023 (SCI-Expanded)
- III. **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, vol.213, 2023 (SCI-Expanded)
- IV. **Maximal paths recipe for constructing Web user sessions**
Bayir M. A., Toroslu I. H.
World Wide Web, vol.25, no.6, pp.2455-2485, 2022 (SCI-Expanded)
- V. **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, vol.30, no.4, pp.1404-1418, 2022 (SCI-Expanded)

- VI. **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, vol.115, 2021 (SCI-Expanded)
- VII. **Forecasting directional movement of Forex data using LSTM with technical and macroeconomic indicators**
Yildirim D. C., TOROSLU İ. H., Fiore U.
FINANCIAL INNOVATION, vol.7, no.1, 2021 (SSCI)
- VIII. **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, pp.75-96, 2020 (SCI-Expanded)
- IX. **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, vol.53, no.3, pp.431-451, 2019 (SCI-Expanded)
- X. **Short-term trend prediction in financial time series data**
Ozorhan M. O., TOROSLU İ. H., ŞEHİTOĞLU O. T.
KNOWLEDGE AND INFORMATION SYSTEMS, vol.61, no.1, pp.397-429, 2019 (SCI-Expanded)
- XI. **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, vol.26, no.3, pp.198-210, 2019 (SCI-Expanded)
- XII. **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, vol.100, pp.79-94, 2018 (SCI-Expanded)
- XIII. **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, vol.21, no.22, pp.6653-6671, 2017 (SCI-Expanded)
- XIV. **Secure logical schema and decomposition algorithm for proactive context dependent attribute based inference control**
Turan U., TOROSLU İ. H., Kantarcioglu M.
DATA & KNOWLEDGE ENGINEERING, vol.111, pp.1-21, 2017 (SCI-Expanded)
- XV. **Task assignment in tree-like hierarchical structures**
EVRENDİLEK C., TOROSLU İ. H., Hashemikhabir S.
JOURNAL OF COMBINATORIAL OPTIMIZATION, vol.34, no.2, pp.631-655, 2017 (SCI-Expanded)
- XVI. **Improving the prediction of page access by using semantically enhanced clustering**
Sen E., TOROSLU İ. H., KARAGÖZ P.
JOURNAL OF INTELLIGENT INFORMATION SYSTEMS, vol.47, no.1, pp.165-192, 2016 (SCI-Expanded)
- XVII. **Heuristic based trading system on Forex data using technical indicator rules**
ÖZTÜRK M., TOROSLU İ. H., Fidan G.
APPLIED SOFT COMPUTING, vol.43, pp.170-186, 2016 (SCI-Expanded)
- XVIII. **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, vol.44, no.3, pp.629-661, 2015 (SCI-Expanded)
- XIX. **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, vol.86, pp.124-145, 2013 (SCI-Expanded)

- XX. **Discovering better navigation sequences for the session construction problem**
Bayir M. A., Toroslu I. H., Demirbas M., COŞAR A.
DATA & KNOWLEDGE ENGINEERING, vol.73, pp.58-72, 2012 (SCI-Expanded)
- XXI. **A comparative study on ILP-based concept discovery systems**
Kavurucu Y., Senkul P., TOROSLU İ. H.
EXPERT SYSTEMS WITH APPLICATIONS, vol.38, no.9, pp.11598-11607, 2011 (SCI-Expanded)
- XXII. **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, vol.23, no.8, pp.743-756, 2010 (SCI-Expanded)
- XXIII. **A dynamic programming algorithm for tree-like weighted set packing problem**
Gulek M., TOROSLU İ. H.
INFORMATION SCIENCES, vol.180, no.20, pp.3974-3979, 2010 (SCI-Expanded)
- XXIV. **A genetic algorithm for maximum-weighted tree matching problem**
Gulek M., TOROSLU İ. H.
APPLIED SOFT COMPUTING, vol.10, no.4, pp.1127-1131, 2010 (SCI-Expanded)
- XXV. **ILP-based concept discovery in multi-relational data mining**
Kavurucu Y., Senkul P., TOROSLU İ. H.
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.9, pp.11418-11428, 2009 (SCI-Expanded)
- XXVI. **Integrated search and alignment of protein structures**
Sacan A., TOROSLU İ. H., Ferhatosmanoglu H.
BIOINFORMATICS, vol.24, no.24, pp.2872-2879, 2008 (SCI-Expanded)
- XXVII. **Authors' response to "an addendum on the incremental assignment problem" by Volgenant**
TOROSLU İ. H., Uecoluk G.
INFORMATION SCIENCES, vol.178, no.23, pp.4584, 2008 (SCI-Expanded)
- XXVIII. **Incremental assignment problem**
Toroslu I. H., Ucoluk G.
INFORMATION SCIENCES, vol.177, no.6, pp.1523-1529, 2007 (SCI-Expanded)
- XXIX. **Genetic algorithm for the personnel assignment problem with multiple objectives**
Toroslu I. H., Arslanoglu Y.
INFORMATION SCIENCES, vol.177, no.3, pp.787-803, 2007 (SCI-Expanded)
- XXX. **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, vol.37, no.1, pp.147-153, 2007 (SCI-Expanded)
- XXXI. **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, vol.34, no.3, pp.81-84, 2005 (SCI-Expanded)
- XXXII. **An architecture for workflow scheduling under resource allocation constraints**
Senkul P., Toroslu I.
INFORMATION SYSTEMS, vol.30, no.5, pp.399-422, 2005 (SCI-Expanded)
- XXXIII. **Data mining in deductive databases using query flocks**
Toroslu I., Yetisgen-Yildiz M.
EXPERT SYSTEMS WITH APPLICATIONS, vol.28, no.3, pp.395-407, 2005 (SCI-Expanded)
- XXXIV. **A semantic-based user privacy protection framework for Web services**
Tumer A., Dogac A., Toroslu I.
INTELLIGENT TECHNIQUES FOR WEB PERSONALIZATION, vol.3169, pp.289-305, 2005 (SCI-Expanded)
- XXXV. **Dynamic programming solution for multiple query optimization problem**

- Toroslu I, Cosar A.
INFORMATION PROCESSING LETTERS, vol.92, no.3, pp.149-155, 2004 (SCI-Expanded)
- XXXVI. **Repetition support and mining cyclic patterns**
Toroslu I.
EXPERT SYSTEMS WITH APPLICATIONS, vol.25, no.3, pp.303-311, 2003 (SCI-Expanded)
- XXXVII. **Personnel assignment problem with hierarchical ordering constraints**
Toroslu I.
COMPUTERS & INDUSTRIAL ENGINEERING, vol.45, no.3, pp.493-510, 2003 (SCI-Expanded)
- XXXVIII. **Automatic reconstruction of broken 3-D surface objects**
Ucoluk G., Toroslu I.
COMPUTERS & GRAPHICS-UK, vol.23, no.4, pp.573-582, 1999 (SCI-Expanded)
- XXXIX. **LPL++: Object logic programming language with built-in inheritance through unification**
Toroslu I.
DATA BASE FOR ADVANCES IN INFORMATION SYSTEMS, vol.29, no.2, pp.50-61, 1998 (SCI-Expanded)
- XL. **A genetic algorithm approach for verification of the syllable-based text compression technique**
Ucoluk G., Toroslu I.
JOURNAL OF INFORMATION SCIENCE, vol.23, no.5, pp.365-372, 1997 (SCI-Expanded)
- XLI. **The strong partial transitive-closure problem: Algorithms and performance evaluation**
Toroslu I, Qadah G.
IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, vol.8, no.4, pp.617-629, 1996 (SCI-Expanded)
- XLII. **AN EFFICIENT DATABASE TRANSITIVE CLOSURE ALGORITHM**
TOROSLU I., QADAH G., HENSCHEN L.
APPLIED INTELLIGENCE, vol.4, no.2, pp.205-218, 1994 (SCI-Expanded)

Articles Published in Other Journals

- 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, vol.14, no.14, pp.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, vol.15, 2021 (ESCI)
- III. **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, vol.11, no.3, pp.120-132, 2020 (ESCI)
- IV. **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, vol.10, no.1, 2020 (Peer-Reviewed Journal)
- V. **Data Mining Approach for Direct Marketing of Banking Products with Profit/Cost Analysis**
Mitik M., Korkmaz O., KARAGÖZ P., TOROSLU İ. H., Yuçel F.
REVIEW OF SOCIONETWORK STRATEGIES, vol.11, no.1, pp.17-31, 2017 (ESCI)
- 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 (Non Peer-Reviewed Journal)

Books & Book Chapters

- I. **Event Detection on Communities: Tracking the Change in Community Structure within Temporal Communication Networks**
Aktunç R., TOROSLU İ. H., KARAGÖZ P.
in: Putting Social Media and Networking Data in Practice for Education, Planning, Prediction and Recommendation, Mehmet KayaŞuayip Birincijalal KawashReda Alhajj, Editor, Springer Cham, pp.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.
in: Social Computing Behavioral Cultural Modeling and Prediction, Agrawal N., Xu K., Osgood N., Editor, Springer, pp.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.
in: New Frontiers in Mining Complex Patterns, A. Appice, M. Ceci, C. Loglisci, G. Manco, E. Masciari and Z. W. Ras, Editor, Springer, pp.179-193, 2015
- IV. **Location Prediction of Mobile Phone Users Using Apriori-Based Sequence Mining with Multiple Support Thresholds**
Keleş İ., Özer M., Toroslu İ. H., Karagöz P.
in: New Frontiers in Mining Complex Patterns, A. Appice, M. Ceci, C. Loglisci, G. Manco, E. Masciari and Z. W. Ras, Editor, Springer, New York, pp.179-193, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **Fusion Enhanced Click-Through-Rate Prediction Füzyon Güçlendirmeli Tıklama Oranı Tahmini**
Bayraktar M., Gökce F. C., Aksu D., Altingövde I. S., Karagöz P., Toroslu I. H.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- II. **Autonomous Visual Moderation System (AutoMod) Otonom Görsel Moderasyon Sistemi (AutoMod)**
Bahtiyar H., Katipoğlu B. I., Yüksel E., TOROSLU İ. H., KARAGÖZ P.
31st IEEE Conference on Signal Processing and Communications Applications, SIU 2023, İstanbul, Turkey, 5 - 08 July 2023
- III. **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, Chile, 9 - 12 December 2019
- IV. **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, Canada, 27 - 30 August 2019, pp.825-828
- V. **Dynamic Programming Solution to ATM Cash Replenishment Optimization Problem**
Ozer F., TOROSLU İ. H., KARAGÖZ P., Yuçel F.
1st International Conference on Intelligent Computing and Optimization (ICO), Pattaya, Thailand, 4 - 05 October 2018, vol.866, pp.428-437
- VI. **Dynamic Programming Solution to ATM Cash Replenishment Optimization Problem,, Pattaya, Thailand, Oct. 4-5, 2018.**
Özer F., Toroslu İ. H., Karagöz P., Yuçel F.
Int Conf. on Intelligent Computing and Optimization, Pattani, Thailand, 4 - 05 October 2018
- VII. **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,

Spain, 28 - 31 August 2018, pp.928-931

- VIII. **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, Canada, 25 - 28 June 2018, vol.10868, pp.334-341
- IX. **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, Thailand, 7 - 09 November 2017, pp.134-141
- X. **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, Spain, 12 - 15 December 2016, pp.552-559
- XI. **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, Portugal, 6 - 08 September 2016, vol.9829, pp.225-238
- XII. **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, Costa Rica, 18 - 21 August 2016, pp.945-948
- XIII. **Finding All Maximal Paths In Web User Sessions**
BAYIR M. A., TOROSLU İ. H.
WWW 2016, Montreal, Canada, 11 - 15 April 2016, pp.15-16
- XIV. **A Dynamic Modularity Based Community Detection Algorithm for Large-scale Networks: DSLM**
Aktunc R., TOROSLU İ. H., Ozer M., Davulcu H.
IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM), Paris, France, 25 - 28 August 2015, pp.1177-1183
- XV. **Cost-Aware Result Caching for Meta-Search Engines**
Bakkal E., ALTINGÖVDE İ. S., TOROSLU İ. H.
38th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR), Santiago, Chile, 9 - 13 August 2015, pp.739-742
- XVI. **Predicting the Next Location Change and Time of Change for Mobile Phone Users**
Ozer M., Keles I., TOROSLU İ. H., KARAGÖZ P., Ergut S.
3rd ACM SIGSPATIAL International Workshop on Mobile Geographic Information Systems (MobiGIS), Texas, United States Of America, 04 November 2014, pp.51-59
- XVII. **Location Prediction of Mobile Phone Users Using Apriori-Based Sequence Mining with Multiple Support Thresholds**
Keles I., Ozer M., TOROSLU İ. H., KARAGÖZ P.
International Workshop on New Frontiers in Mining Complex Patterns, 19 September 2014
- XVIII. **Clustering frequent navigation patterns from website logs by using ontology and temporal information**
Kilic S., Senkul P., TOROSLU İ. H.
27th International Symposium on Computer and Information Sciences, ISCIS 2012, Paris, France, 3 - 04 October 2012, pp.363-370
- XIX. **Transfer Learning Using Twitter Data for Improving Sentiment Classification of Turkish Political News**
Kaya M., Fidan G., TOROSLU İ. H.
28th International Symposium on Computer and Information Sciences (ISCIS), Paris, France, 28 - 29 October 2013, vol.264, pp.139-148

- XX. **K-partitioning of Signed or Weighted Bipartite Graphs**
Omeroglu N. B., TOROSLU İ. H., Gokalp S., Davulcu H.
ASE/IEEE International Conference on Social Computing (SocialCom), Washington, Kiribati, 8 - 14 September 2013, pp.815-820
- XXI. **Partitioning and Scaling Signed Bipartite Graphs for Polarized Political Blogosphere**
Gokalp S., Temkit M., Davulcu H., TOROSLU İ. H.
ASE/IEEE International Conference on Social Computing (SocialCom), Washington, Kiribati, 8 - 14 September 2013, pp.168-173
- XXII. **Similarity search in protein sequence databases using metric access methods**
Cetintas A., Sacan A., TOROSLU İ. H.
5th International Conference on Bioinformatics and Computational Biology 2013, BICoB 2013, Honolulu, HI, United States Of America, 4 - 06 March 2013, pp.131-136
- XXIII. **Sentiment Analysis of Turkish Political News**
Kaya M., Fidan G., TOROSLU İ. H.
11th IEEE/WIC/ACM International Joint Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT), Macau, China, 4 - 07 December 2012, pp.174-180
- XXIV. **Geo activity Recommendations by using Improved Feature Combination**
SATTARI M., MANGUOĞLU M., TOROSLU İ. H., PANAGIOTIS S., KARAGÖZ P., YANNIS M.
4th International Workshop on Location-Based Social Networks, 08 September 2012
- XXV. **Using tag similarity in SVD-based recommendation systems**
Osmanli O. N., TOROSLU İ. H.
2011 5th International Conference on Application of Information and Communication Technologies, AICT 2011, Baku, Azerbaijan, 12 - 14 October 2011
- XXVI. **Geo-social recommendations based on incremental tensor reduction and local path traversal**
Symeniodis P., Papadimitriou A., Manolopoulos Y., KARAGÖZ P., TOROSLU İ. H.
ACM SIGSPATIAL International Workshop on Location-Based Social Networks, 01 November 2011
- XXVII. **Adaptation and Fine-Tuning of the Weighted Sum Method on Personnel Assignment Problem with Hierarchical Ordering and Team Constraints**
Arslanoglu Y., TOROSLU İ. H.
26th Annual International Symposium on Computer and Information Science, London, Canada, 26 - 28 September 2011, pp.571-576
- XXVIII. **Semantically Enriched Event Based Model for Web Usage Mining**
Soztutar E., TOROSLU İ. H., Bayir M. A.
11th International Conference on Web Information Systems Engineering, Hong Kong, PEOPLES R CHINA, 12 - 14 December 2010, vol.6488, pp.166-168
- XXIX. **Comparison of multidimensional data access methods for feature-based image retrieval**
Arslan S., Saçan A., Açar E., TOROSLU İ. H., YAZICI A.
2010 20th International Conference on Pattern Recognition, ICPR 2010, İstanbul, Turkey, 23 - 26 August 2010, pp.3260-3263
- XXX. **A genetic algorithm approach to the artillery target assignment problem**
Sapaz B., TOROSLU İ. H., ÜÇOLUK G.
25th International Symposium on Computer and Information Sciences, ISCIS 2010, London, United Kingdom, 22 - 24 September 2010, pp.39-42
- XXXI. **Smart Miner: A new framework for mining large scale web usage data**
Bayir M. A., TOROSLU İ. H., COŞAR A., Fidan G.
18th International World Wide Web Conference, WWW 2009, Madrid, Spain, 20 - 24 April 2009, pp.161-170
- XXXII. **Confidence-based concept discovery in relational databases**
Kavurucu Y., Senkul P., TOROSLU İ. H.
2009 WRI World Congress on Computer Science and Information Engineering, CSIE 2009, Los Angeles, CA, United States Of America, 31 March - 02 April 2009, vol.4, pp.282-286
- XXXIII. **Multi-Relational Concept Discovery with Aggregation**

Kavurucu Y., Senkul P., TOROSLU İ. H.

24th International Symposium on Computer and Information Sciences, Güzelyurt, Cyprus (Kktc), 14 - 16 September 2009, pp.247-252

XXXIV. Analyzing Transitive Rules on a Hybrid Concept Discovery System

Kavurucu Y., Senkul P., TOROSLU İ. H.

4th International Workshop on Hybrid Artificial Intelligence Systems, Salamanca, Mexico, 10 - 12 June 2009, vol.5572, pp.227-234

XXXV. Aggregation in confidence-based concept discovery for multi-relational data mining

Kavurucu Y., Senkul P., TOROSLU İ. H.

Informatics 2008 and Data Mining 2008, MCCSIS'08 - IADIS Multi Conference on Computer Science and Information Systems, Amsterdam, Netherlands, 22 - 27 July 2008, pp.43-50

XXXVI. Distance-based Indexing of Residue Contacts for Protein Structure Retrieval and Alignment

Sacan A., TOROSLU İ. H., Ferhatosmanoglu H.

8th IEEE International Conference on Bioinformatics and Bioengineering, Athens, Greece, 8 - 10 October 2008, pp.314-316

XXXVII. Approximate similarity search in genomic sequence databases using landmark-guided embedding

Sacan A., TOROSLU İ. H.

24th IEEE International Conference on Data Engineering/ 1st International Workshop on Secure Semantic Web, Cancun, Mexico, 7 - 12 April 2008, pp.498-499

XXXVIII. Confidence-based concept discovery in multi-relational data mining

Kavurucu Y., Senkul P., TOROSLU İ. H.

International Multiconference of Engineers and Computer Scientists, Hong Kong, PEOPLES R CHINA, 19 - 21 March 2008, pp.446-451

XXXIX. Amino acid substitution matrices based on 4-body Delaunay contact profiles

Sacan A., TOROSLU İ. H.

7th IEEE International Conference on Bioinformatics and Bioengineering, Massachusetts, United States Of America, 14 - 17 October 2007, pp.796-801

XL. A new ILP-based concept discovery method for business intelligence

Toprak S. D., Senkul P., Kavurucu Y., TOROSLU İ. H.

IEEE 23rd International Conference on Data Engineering Workshop, İstanbul, Turkey, 17 - 20 April 2007, pp.962-969

XLI. Performance comparison of pattern discovery methods on web log data

Bayir M. A., TOROSLU İ. H., COŞAR A.

4th IEEE/ACS International Conference on Computer Systems and Applications (AICCSA-06), Sharjah, United Arab Emirates, 8 - 11 March 2006, pp.445-446

XLII. A new approach for reactive web usage data processing

Bayir M. A., TOROSLU İ. H., COŞAR A.

22nd International Conference on Data Engineering Workshops, ICDEW 2006, Georgia, United States Of America, 3 - 07 April 2006

XLIII. A semantic-based user privacy protection framework for Web services

Turner A., Dogac A., TOROSLU İ. H.

IJCAI 2003 Workshop on Intelligent Techniques for Web Personalization, ITWP 2003, Acapulco, Mexico, 11 August 2003, pp.289-305

XLIV. Data Mining in Deductive Databases Using Query Flocks: Extended Abstract

Toroslu İ. H., Yetisgen M.

Proceedings of the 6th Joint Conference on Information Sciences, JCIS 2002, Research Triangle Park, NC, United States Of America, 8 - 13 March 2002, vol.6, pp.494-497

XLV. A logical framework for scheduling workflows under resource allocation constraints

KARAGÖZ P., Kifer M., TOROSLU İ. H.

28th international conference on Very Large Data Bases, 18 - 22 August 2002

XLVI. Mining cyclically repeated patterns

Toroslu İ. H., Kantarcioglu M.

3rd International Conference on Data Warehousing and Knowledge Discovery, DaWaK 2001, Munich, Germany, 5 - 07 September 2001, vol.2114, pp.83-92

XLVII. Data mining using query flocks with views

Yetisgen M., TOROSLU İ. H.

11th International Conference on Database and Expert Systems Applications, DEXA 2000, London, United Kingdom, 4 - 08 September 2000, vol.1873, pp.720-729

XLVIII. Effective maintenance views: Improvements to the DRed algorithm

Toroslu I., Kocabas F.

14th International Conference on Logic Programming (ICLP 97), LOUVAIN, Belgium, 8 - 11 July 1997, pp.213-225

XLIX. An efficient transitive closure algorithm for distributed databases

Toroslu İ. H., Henschen L.

5th International Conference on Computing and Information, ICCI 1993, Sudbury, Canada, 27 - 29 May 1993, pp.185-189

L. Efficient computation of strong partial transitive-closures

Toroslu İ. H., Qadah G. Z.

1993 IEEE 9th International Conference on Data Engineering, Vienna, Austria, 19 - 23 April 1993, pp.530-537

LI. New transitive closure algorithm for recursive query processing in deductive databases

Toroslu İ. H., Qadah G.

4th International Conference on Tools with Artificial Intelligence, ICTAI 1992, Virginia, United States Of America, 10 - 13 November 1992, pp.268-275

Metrics

Publication: 105

Citation (WoS): 608

Citation (Scopus): 866

H-Index (WoS): 14

H-Index (Scopus): 17

Awards

Karagöz P., Toroslu İ. H., Best paper award, Int. Conf On Intelligent Computing And Optimization, October 2018

Non Academic Experience

ODTÜ

Central Florida university