

# Prof. İSMAİL HAKKI TOROSLU

## Personal Information

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## International Researcher IDs

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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.ALPAY(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.Çiftçisoğ(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. **A Comparative Study of Contemporary Learning Paradigms in Bug Report Priority Detection**  
Yılmaz E. H., TOROSLU İ. H., Koksal O.  
IEEE Access, 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, vol.32, no.1, pp.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, vol.53, no.6, pp.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, vol.213, 2023 (SCI-Expanded)
- VI. **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)
- 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, vol.30, no.4, pp.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, vol.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, vol.7, no.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, pp.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, vol.53, no.3, pp.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, vol.61, no.1, pp.397-429, 2019 (SCI-Expanded)
- XIII. **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, vol.26, no.3, pp.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, vol.100, pp.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, vol.21, no.22, pp.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, vol.111, pp.1-21, 2017 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- 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, vol.44, no.3, pp.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, vol.86, pp.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, vol.73, pp.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, vol.38, no.9, pp.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, vol.23, no.8, pp.743-756, 2010 (SCI-Expanded)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Authors' response to "an addendum on the incremental assignment problem" by Volgenant**  
TOROSLU İ. H., Ucoluk G.  
INFORMATION SCIENCES, vol.178, no.23, pp.4584, 2008 (SCI-Expanded)
- XXX. **Incremental assignment problem**  
Toroslu I. H., Ucoluk G.  
INFORMATION SCIENCES, vol.177, no.6, pp.1523-1529, 2007 (SCI-Expanded)
- XXXI. **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)
- XXXII. **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)
- 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, vol.34, no.3, pp.81-84, 2005 (SCI-Expanded)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **Repetition support and mining cyclic patterns**  
Toroslu I.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.25, no.3, pp.303-311, 2003 (SCI-Expanded)
- XXXIX. **Personnel assignment problem with hierarchical ordering constraints**  
Toroslu I.  
COMPUTERS & INDUSTRIAL ENGINEERING, vol.45, no.3, pp.493-510, 2003 (SCI-Expanded)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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. **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)
- IV. **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)
- 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.  
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)

**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.

EURASIAN JOURNAL OF EDUCATIONAL RESEARCH, vol.0, no.22, pp.159-165, 2006 (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 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, 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. 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, Italy, 15 - 18 December 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, Turkey, 5 - 08 July 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, Turkey, 5 - 08 July 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, Chile, 9 - 12 December 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, Canada, 27 - 30 August 2019, pp.825-828

- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **Data Mining based Product Marketing Technique for Banking Products**  
Mitik M., Korkmaz O., KARAGÖZ P., TOROSLU İ. H., Yuçel F.  
16th IEEE International Conference on Data Mining (ICDM), Barcelona, Spain, 12 - 15 December 2016, pp.552-559
- XII. **A Web Search Enhanced Feature Extraction Method for Aspect-Based Sentiment Analysis for Turkish Informal Texts**  
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## Metrics

Publication: 110

Citation (WoS): 764

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H-Index (WoS): 16

H-Index (Scopus): 19

## Awards

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

## Non Academic Experience

ODTŮ

Central Florida university