

## Prof. PINAR KARAGÖZ

### Personal Information

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### International Researcher IDs

ScholarID: u3r3g

ORCID: 0000-0003-1366-8395

Publons / Web Of Science ResearcherID: AAZ-9915-2020

ScopusID: 24558798100

Yoksis Researcher ID: 29200

### Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği (Dr), Turkey 1998 - 2003

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Bilgisayar Mühendisliği (YI) (Tezli), Turkey 1996 - 1998

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, Turkey 1992 - 1996

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

IT, Doğal Dilden Veritabanı Sorgusuna: Büyük Dil Modelleri ve Güncel Gelişmeler, EuroCC2 ve EXA4MIND Projects Joint Education Event, 2023

### Research Areas

Computer Sciences

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2006 - 2011

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2005 - 2006

## Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2023 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2020 - Continues

ODTÜ-TSK-MODSİMMER MYK Üyesi, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2018 - Continues

Bölüm Lisansüstü Kurul Üyeliği, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2017 - 2022

Erasmus Coordinator, Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2018 - 2020

Middle East Technical University, Faculty of Engineering, Department of Computer Engineering, 2010 - 2014

## Courses

Guided Research, Undergraduate, 2018 - 2019

## Advising Theses

Karagöz P., Designing and Debiasing Binary Classifiers for Irony and Satire Detection, Postgraduate, A.UMAY(Student), 2024

Karagöz P., İyigün C., INVESTIGATION AND ANALYSIS OF STATISTICAL ATTENTION MECHANISMS IN CLICK-THROUGH-RATE PREDICTION: THE IMPACT OF LAYER NORMALIZATION AND INTERACTION COMPONENT INTEGRATION, Postgraduate, E.BERK(Student), 2024

Karagöz P., Developing novel methods on data stream classification and clustering for accuracy improvement, Doctorate, E.MADEN(Student), 2024

Karagöz P., Named entity recognition and explainability analysis on Turkish sports news texts, Postgraduate, Y.PELİN(Student), 2023

Karagöz P., Özdemirel N. E., Machine learning based truncation point estimation in steady-state simulation, Postgraduate, B.GİRİT(Student), 2023

Karagöz P., Location recommendation for groups on location-based social networks, Postgraduate, H.ALPER(Student), 2022

Karagöz P., Explicit and implicit trust modeling compatibility and explicit trust link prediction in trust-based recommendation systems, Postgraduate, M.UTKU(Student), 2022

Karagöz P., Tüydeş Yaman H., Detection and Description of Traffic Events Using Floating Car and Social Media Data, Doctorate, A.DÜNDAR(Student), 2022

Karagöz P., Preserving privacy of health data residing in HL7 FHIR repositories through de-identification, Postgraduate, E.ŞİMŞEK(Student), 2022

Karagöz P., Mutlu A., Predicting the Academic Influence and Trending Research Topics, Doctorate, M.YÜKSELEN(Student), 2022

KARAGÖZ P., Event detection via tracking the change in community structure, communication trends, and graph embeddings, Doctorate, R.AKTUNÇ(Student), 2022

Karagöz P., Dođru A. H., FINANCIAL NAMED ENTITY RECOGNITION FOR TURKISH NEWS TEXTS, Postgraduate, D.DİNÇ(Student), 2022

Karagöz P., Application of text mining to technology management domain to extract topics and trends, Doctorate, Y.TEKİN(Student), 2022

Karagöz P., Yeşilada Y., Context-Aware Prediction of User Performance Problems Caused by the Situationally-Induced Impairments and Disabilities, Doctorate, M.ELGİN(Student), 2022

Karagöz P., Analysis of graph and text representation techniques for news recommendation and news classification, Postgraduate, M.AĞRIMAN(Student), 2022

Karagöz P., Document Clustering on Collection of Multidisciplinary Academic Texts: Exploring Document Embeddings and Clustering Techniques, Postgraduate, M.KARA(Student), 2022

KARAGÖZ P., Trust-aware location recommendation in location-based social networks, Doctorate, D.CANTÜRK(Student), 2021

Karagöz P., A NEW DATA MINING BASED UPSCALING APPROACH FOR REGIONAL WIND POWER FORECASTING, Doctorate, M.BARIŞ(Student), 2021

Karagöz P., Crypto asset taxonomy classification and crypto newssentiment analysis, Postgraduate, O.KÖSE(Student), 2020

Karagöz P., Information extraction from news related texts using graph mining techniques, Postgraduate, R.FIRAT(Student), 2020

Karagöz P., Toroslu İ. H., Comparison of Integer Linear Programming and Dynamic Programming Approaches for ATM Cash Replenishment Optimization Problem, Postgraduate, F.ÖZER(Student), 2019

Karagöz P., The vessel route pattern extraction and anomaly detection from ais data, Postgraduate, G.BOZTEPE(Student), 2019

Karagöz P., Toroslu İ. H., CLUSTERING BASED PERSONALITY PREDICTION ON TURKISH TWEETS, Postgraduate, E.TUTAYSALGIR(Student), 2019

KARAGÖZ P., Personal advertisement recommendation for microblogs, Doctorate, A.ŞİMŞEK(Student), 2019

Karagöz P., Event detection on social media using transaction based stream processing engine, Postgraduate, H.ALPER(Student), 2019

KARAGÖZ P., Investigating the performance of segmentation methods with deep learning models for sentiment analysis on Turkish informal texts, Postgraduate, F.KURT(Student), 2018

KARAGÖZ P., Online event detection from streaming data, Postgraduate, Ö.CEREN(Student), 2018

KARAGÖZ P., ÇETİN Y., SEQUENCE ALIGNMENT BASED PROCESS FAMILY EXTRACTION, Doctorate, E.ESGİN(Student), 2018

KARAGÖZ P., BATMAZ İ., Learning to rank web data using multivariate adaptive regression splines, Postgraduate, G.ALTINOK(Student), 2018

KARAGÖZ P., Points of interest (POI) extraction from social media, Postgraduate, İ.TALHA(Student), 2017

KARAGÖZ P., TOROSLU İ. H., Product and channel prediction for direct marketing in banking sector, Postgraduate, M.MITİK(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

KARAGÖZ P., Credibility analysis on tweets for news and discussion programs by using a hybrid credibility analysis method, Postgraduate, A.FATİH(Student), 2016

TOROSLU İ. H., KARAGÖZ P., Feature based sentiment analysis on informal Turkish texts, Postgraduate, B.KAMA(Student), 2016

KARAGÖZ P., OĞUZTÜZÜN M. H. S., Spatiotemporal data mining for situation awareness in microblogs, Doctorate, Ö.ÖZDİKİŞ(Student), 2016

KARAGÖZ P., New heuristics for performance improvement of ilp-based concept discovery systems, Postgraduate, A.DOĞAN(Student), 2015

KARAGÖZ P., Collective classification of user emotions in twitter, Postgraduate, İ.İLERİ(Student), 2015

KARAGÖZ P., Utility based and user defined scoring based mining of sequential patterns, Doctorate, Ö.ALKAN(Student), 2015

KARAGÖZ P., Personalized time-aware outdoor activity recommendation system, Postgraduate, S.RAHIMIAGHDAM(Student), 2015

KARAGÖZ P., TAŞKAYA TEMİZEL T., Combining topology-based & content-based analysis for followee recommendation

on Twitter, Postgraduate, A.Yanar(Student), 2015

KARAGÖZ P., Developing recommendation techniques for location based social networks using random walk, Doctorate, H.BAĞCI(Student), 2015

KARAGÖZ P., BİRTÜRK A. N., Improved wind power forecasting using combination methods, Postgraduate, C.ER(Student), 2015

KARAGÖZ P., TAŞKAYA TEMİZEL T., Combining topology-based & content-based analysis for followee recommendation on twitter, Postgraduate, A.YANAR(Student), 2015

KARAGÖZ P., BETİN CAN A., A new search engine ontology for visually impaired users, Postgraduate, E.AKKAYA(Student), 2015

KARAGÖZ P., Recommendation generation for performance improvement by using cross-organizational process mining, Postgraduate, O.YILMAZ(Student), 2015

KARAGÖZ P., Data mining-based power generation forecast at wind power plants, Postgraduate, M.BARIŞ(Student), 2014

KARAGÖZ P., Employee turnover prediction using machine learning based methods, Postgraduate, Z.ÖZGE(Student), 2014

KARAGÖZ P., Automatic identification and role detection of visual elements in web pages, Postgraduate, M.ELGİN(Student), 2014

KARAGÖZ P., A hybrid method for toponym recognition on informal Turkish text, Postgraduate, M.KILINÇ(Student), 2014

TOROSLU İ. H., KARAGÖZ P., Emotion analysis on Turkish tweets, Postgraduate, S.DEMİRCİ(Student), 2014

KARAGÖZ P., Tweet recommendation under user interest modeling with named entity recognition, Postgraduate, D.KARATAY(Student), 2014

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

KARAGÖZ P., Improving the efficiency of graph-based concept discovery systems, Postgraduate, N.Ceren(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

KARAGÖZ P., Irony detection on Turkish microblog texts, Postgraduate, H.TAŞLIOĞLU(Student), 2014

TOROSLU İ. H., KARAGÖZ P., Improving the prediction of page access by using semantically enhanced clustering, Postgraduate, E.ŞEN(Student), 2014

KARAGÖZ P., A hybrid approach for credibility detection in twitter, Postgraduate, A.GÜN(Student), 2014

KARAGÖZ P., Metaheuristic algorithms based automated evaluation method for public investment projects, Postgraduate, T.FİGEN(Student), 2014

KARAGÖZ P., Improving the efficiency of ILP-based and graph-based concept discovery systems, Postgraduate, N.CEREN(Student), 2014

KARAGÖZ P., Improving scalability and efficiency of ILP-based and graph-based concept discovery systems, Doctorate, A.MUTLU(Student), 2013

KARAGÖZ P., A Genetic algorithm based technique for qos-aware web service composition, Postgraduate, A.Erdinç(Student), 2013

KARAGÖZ P., Sentiment-focused web crawling, Doctorate, A.GÜRAL(Student), 2013

KARAGÖZ P., Next page prediction with popularity based page rank, duration based page rank and semantic tagging approach, Postgraduate, B.DENİZ(Student), 2012

KARAGÖZ P., Web service testing for domain specific web service discovery framework, Postgraduate, S.UTKU(Student), 2012

KARAGÖZ P., Emotion analysis of Turkish texts by using machine learning methods, Postgraduate, Z.BOYNUKALIN(Student), 2012

KARAGÖZ P., A new WAP-Tree based sequential pattern mining algorithm for faster pattern extraction, Postgraduate, Ö.KEZBAN(Student), 2012

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

KARAGÖZ P., Automatic quality of service (QOS) evaluation for domain specific web service discovery framework, Postgraduate, E.AŞKAROĞLU(Student), 2011

KARAGÖZ P., Query interface and query language for domain specific web service discovery system, Postgraduate, H.ÖZDİL(Student), 2011

KARAGÖZ P., Data mining on architecture simulation, Postgraduate, E.MADEN(Student), 2010

KARAGÖZ P., A test oriented service and object model for software product lines, Postgraduate, N.BÜLENT(Student), 2010

KARAGÖZ P., Using ontology based web usage mining and object clustering for recommendation, Postgraduate, H.YILMAZ(Student), 2010

KARAGÖZ P., YAZICI A., Pattern extraction by using both spatial and temporal features on Turkish meteorological data, Postgraduate, I.GOLER(Student), 2010

KARAGÖZ P., A hybrid methodology in process modeling: "from-to chart based process discovery", Postgraduate, E.Esgin(Student), 2009

KARAGÖZ P., An ILP-based concept discovery system for multi-relational data mining, Doctorate, Y.KAVURUCU(Student), 2009

KARAGÖZ P., Web usage mining and recommendation with semantic information, Postgraduate, S.SALIN(Student), 2009

KARAGÖZ P., BAYKAL N., A hybrid methodology in process modeling: "from-to chart process discovery?", Postgraduate, E.ESGİN(Student), 2009

KARAGÖZ P., Semantic processes for constructing composite Web services, Postgraduate, K.KARDAŞ(Student), 2007

KARAGÖZ P., WEB service composition under resource allocation constraints, Postgraduate, E.KARAKOÇ(Student), 2007

KARAGÖZ P., Implementation of concurrent constraint transaction logic and its user interface, Postgraduate, F.ALTUNYUVA(Student), 2006

## Jury Memberships

Competition, IEEE Computer Society Türkiye Yüksek Lisans Tezi Ödülleri , IEEE Computer Society Türkiye, August, 2024

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Middle East Technical University, December, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Middle East Technical University, June, 2019

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Middle East Technical University, March, 2019

## Designed Lessons

Karagöz P., Special Topics in CENG: Guided Research, Undergraduate, 2018 - 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Recent methods on short text stream clustering: A survey study**  
Maden E., Karagöz P.  
Wiley Interdisciplinary Reviews: Computational Statistics, vol.15, no.6, 2023 (SCI-Expanded)
- II. **Effect of Context on Smartphone Users' Typing Performance in the Wild**  
Akpınar E., Yılmaz Y., Karagöz P.  
ACM TRANSACTIONS ON COMPUTER-HUMAN INTERACTION, vol.30, no.3, 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. **Event prediction from news text using subgraph embedding and graph sequence mining**  
Çekinel R. F., Karagöz P.

WORLD WIDE WEB-INTERNET AND WEB INFORMATION SYSTEMS, vol.25, no.6, pp.2403-2428, 2022 (SCI-Expanded)

- V. **Extracting process hierarchies by multi-sequence alignment adaptations**  
Esgin E., Karagöz P.  
ENTERPRISE INFORMATION SYSTEMS, vol.16, no.10-11, pp.1617-1652, 2022 (SCI-Expanded)
- VI. **Event Detection via Tracking the Change in Community Structure and Communication Trends**  
Aktunc R., Karagöz P., Toroslu I. H.  
IEEE ACCESS, vol.10, pp.109712-109728, 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. **Predicting the Trending Research Topics by Deep Neural Network Based Content Analysis**  
Yukselen M., Mutlu A., Karagöz P.  
IEEE ACCESS, vol.10, pp.90887-90902, 2022 (SCI-Expanded)
- IX. **Trajectory pattern extraction and anomaly detection for maritime vessels**  
Karatas G. B., KARAGÖZ P., Ayran O.  
INTERNET OF THINGS, vol.16, 2021 (SCI-Expanded)
- X. **Reducing the cost of wind resource assessment: using a regional wind power forecasting method for assessment**  
Ozkan M. B., KARAGÖZ P.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.9, pp.13182-13197, 2021 (SCI-Expanded)
- XI. **Learning to rank by using multivariate adaptive regression splines and conic multivariate adaptive regression splines**  
Altinok G., KARAGÖZ P., BATMAZ İ.  
COMPUTATIONAL INTELLIGENCE, vol.37, no.1, pp.371-408, 2021 (SCI-Expanded)
- XII. **SgWalk: Location Recommendation by User Subgraph-Based Graph Embedding**  
Canturk D., KARAGÖZ P.  
IEEE ACCESS, vol.9, pp.134858-134873, 2021 (SCI-Expanded)
- XIII. **Wikipedia enriched advertisement recommendation for microblogs by using sentiment enhanced user profiles**  
Simsek A., KARAGÖZ P.  
JOURNAL OF INTELLIGENT INFORMATION SYSTEMS, vol.54, no.2, pp.245-269, 2020 (SCI-Expanded)
- XIV. **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)
- XV. **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)
- XVI. **Data Mining-Based Upscaling Approach for Regional Wind Power Forecasting: Regional Statistical Hybrid Wind Power Forecast Technique (RegionalSHWIP)**  
Ozkan M. B., KARAGÖZ P.  
IEEE Access, vol.7, pp.171790-171800, 2019 (SCI-Expanded)
- XVII. **Extracting Potentially High Profit Product Feature Groups by Using High Utility Pattern Mining and Aspect Based Sentiment Analysis**  
Demir S., Alkan O., Cekinel F., KARAGÖZ P.  
HIGH-UTILITY PATTERN MINING: THEORY, ALGORITHMS AND APPLICATIONS, vol.51, pp.233-260, 2019 (SCI-Expanded)
- XVIII. **Neural information retrieval: at the end of the early years**

- Onal K. D., Zhang Y., ALTINGÖVDE İ. S., Rahman M. M., KARAGÖZ P., Braylan A., Dang B., Chang H., Kim H., McNamara Q., et al.  
INFORMATION RETRIEVAL JOURNAL, vol.21, pp.111-182, 2018 (SCI-Expanded)
- XIX. **Graph-Based Concept Discovery**  
MUTLU A., KARAGÖZ P., Kavurucu Y.  
ENCYCLOPEDIA OF INFORMATION SCIENCE AND TECHNOLOGY, 4TH EDITION, pp.1974-1983, 2018 (SCI-Expanded)
- XX. **A survey on location estimation techniques for events detected in Twitter**  
Ozdikis O., Oguztuzun H., Karagöz P.  
KNOWLEDGE AND INFORMATION SYSTEMS, vol.52, pp.291-339, 2017 (SCI-Expanded)
- XXI. **Evidential estimation of event locations in microblogs using the Dempster–Shafer theory**  
Ozdikis O., Ogurtuzun H., Karagöz P.  
Information Processing and Management, vol.52, no.6, pp.1227-1246, 2016 (SCI-Expanded)
- XXII. **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)
- XXIII. **Predicting the Location and Time of Mobile Phone Users by Using Sequential Pattern Mining Techniques**  
Ozer M., Keles I., Toroslu H., KARAGÖZ P., Davulcu H.  
COMPUTER JOURNAL, vol.59, no.6, pp.908-922, 2016 (SCI-Expanded)
- XXIV. **Context-aware location recommendation by using a random walk-based approach**  
Bagci H., KARAGÖZ P.  
KNOWLEDGE AND INFORMATION SYSTEMS, vol.47, no.2, pp.241-260, 2016 (SCI-Expanded)
- XXV. **WaPUPS: Web access pattern extraction under user-defined pattern scoring**  
Alkan O. K., KARAGÖZ P.  
JOURNAL OF INFORMATION SCIENCE, vol.42, no.2, pp.261-273, 2016 (SCI-Expanded)
- XXVI. **Policy-based memoization for ILP-based concept discovery systems**  
Mutlu A., KARAGÖZ P.  
JOURNAL OF INTELLIGENT INFORMATION SYSTEMS, vol.46, no.1, pp.99-120, 2016 (SCI-Expanded)
- XXVII. **CRoM and HuspExt: Improving Efficiency of High Utility Sequential Pattern Extraction**  
Alkan O. K., KARAGÖZ P.  
IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, vol.27, no.10, pp.2645-2657, 2015 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **A Novel Wind Power Forecast Model: Statistical Hybrid Wind Power Forecast Technique (SHWIP)**  
Ozkan M. B., KARAGÖZ P.  
IEEE TRANSACTIONS ON INDUSTRIAL INFORMATICS, vol.11, no.2, pp.375-387, 2015 (SCI-Expanded)
- XXX. **Sentiment-Focused Web Crawling**  
Vural A. G., Cambazoglu B. B., Karagöz P.  
ACM TRANSACTIONS ON THE WEB, vol.8, 2014 (SCI-Expanded)
- XXXI. **Improving pattern quality in web usage mining by using semantic information**  
Senkul P., Salin S.  
KNOWLEDGE AND INFORMATION SYSTEMS, vol.30, no.3, pp.527-541, 2012 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **An open-source framework of neural networks for diagnosis of coronary artery disease from myocardial perfusion SPECT**  
Guner L. A., Karabacak N. I., Akdemir O. U., Karagoz P., KOCAMAN S. A., ÇENGEL A., ÜNLÜ M.  
JOURNAL OF NUCLEAR CARDIOLOGY, vol.17, no.3, pp.405-413, 2010 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **Composing semantic Web services under constraints**  
Karakoc E., Senkul P.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.36, no.8, pp.11021-11029, 2009 (SCI-Expanded)
- XXXVII. **Artificial Neural Networks May Be A Secondary Aid To Physicians For The Interpretation Of Quantitative Myocardial Perfusion Studies**  
Guner L., KARABACAK N., KARAGÖZ P., Akdemir O., ÜNLÜ M.  
EUROPEAN JOURNAL OF NUCLEAR MEDICINE AND MOLECULAR IMAGING, vol.36, 2009 (SCI-Expanded)
- XXXVIII. **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)

## Articles Published in Other Journals

- I. **Erişime Açık Terörizm Veri Kümeleri Kullanarak Makine Öğrenmesi ve Büyük Veri Mimarileri ile Terörle Mücadeleye Yönelik Tahminleme Yaklaşımları**  
Adıgüzel F., Dereli C., Karagöz P.  
Savunma Bilimleri Dergisi, vol.42, pp.119-154, 2022 (Peer-Reviewed Journal)
- II. **Trust-aware location recommendation for user groups**  
Teoman H. A., Karagöz P.  
APPLIED COMPUTING REVIEW, vol.22, no.3, pp.39-55, 2022 (ESCI)
- III. **Explicit and Implicit Trust Modeling for Recommendation**  
Demirci U., Karagoz P.  
Digital, vol.2, no.4, pp.444-462, 2022 (Scopus)
- IV. **IronyTR: Irony detection in turkish informal texts**  
ÖZTÜRK A. U., Cemek Y., KARAGÖZ P.  
International Journal of Intelligent Information Technologies, vol.17, no.4, 2021 (ESCI)
- V. **IronyTR**  
Cemek Y., Ozturk A. U., KARAGÖZ P.  
International Journal of Intelligent Information Technologies, vol.17, 2021 (ESCI)
- VI. **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)
- VII. **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)
- VIII. **Incremental clustering with vector expansion for online event detection in microblogs**  
Ozdikis O., KARAGÖZ P., Oguztuzun H.  
SOCIAL NETWORK ANALYSIS AND MINING, vol.7, no.1, 2017 (ESCI)
- IX. **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)



X. **Using semantic information for distributed web service discovery**

Cantürk D., KARAGÖZ P.

International Journal of Web Science, 2011 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Enhancing Underground Built Heritage Analysis with Text Mining: A Case Study on Cappadocia**

KARAGÖZ P., ÇEKİNEL R. F., DOĞAN A. H., OKAY B., ÖZTÜRK A. U., TONAY T. S., TUNCEL B. M.

in: Valorising Underground Built Heritage in Cappadocia, Muge Akkar Ercan Muge, Aydiner Kerim, Editor, Consiglio Nazionale delle Ricerche, Napoli, pp.61-92, 2023

II. **Unstructured Textual Data Analysis for Underground Built Heritage (UBH) Knowledge Base**

Karagöz P.

in: Underground Built Heritage Valorisation A Handbook, Giuseppe Pace, Renata Salvarani, Editor, Consiglio Nazionale delle Ricerche (CNR), Rome, pp.43-58, 2021

III. **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 Alhaji, Editor, Springer Cham, pp.75-96, 2020

IV. **Large-Scale Renewable Energy Monitoring and Forecast Based on Intelligent Data Analysis**

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Özdikiş Ö., KARAGÖZ P., OĞUZTÜZÜN M. H. S.  
ASONAM, 28 - 30 August 2012



- XCII. Ontology-based routing of web services in distributed service discovery system containing domain specific nodes**  
Canturk D., KARAGÖZ P.  
IEEE Symposium on Computers and Communications, 1 - 04 July 2012
- XCIII. Automatic QoS evaluation method for web services**  
Aşkaroğlu E., KARAGÖZ P.  
2012 IEEE Symposium on Computers and Communications (ISCC), Cappadocia, Turkey, 1 - 04 July 2012
- XCIV. Investigating the Effect of Duration Page Size and Frequency on Next Page Recommendation with Page Rank Algorithm**  
Günel B. D., KARAGÖZ P.  
WSDM Workshop on Web Search and Click Data (WSCD), 10 February - 14 December 2012
- XCV. 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
- XCVI. Semantic Annotation of Web Services with Lexicon-Based Alignment**  
Cantürk D., KARAGÖZ P.  
IEEE SERVICES, 4 - 09 July 2011
- XCVII. Using ontology and sequence information for extracting behavior patterns from web navigation logs**  
Yılmaz H., KARAGÖZ P.  
10th IEEE International Conference on Data Mining Workshops, ICDMW 2010, Sydney, Australia, 14 - 17 December 2010, pp.549-556
- XCVIII. IntWEB: An AI-based approach for adaptive web**  
Alkan O. K., KARAGÖZ P.  
9th Workshop on Intelligent Techniques for Web Personalization and Recommender Systems, ITWP 2011 - In Conjunction with the 22nd International Joint Conference on Artificial Intelligence, IJCAI 2011, Barcelona, Spain, 16 July 2011, vol.756, pp.57-64
- XCIX. Improving the time efficiency of ILP-based multi-relational concept discovery with dynamic programming approach**  
Mutlu A., Berk M. A., KARAGÖZ P.  
25th International Symposium on Computer and Information Sciences, ISCIS 2010, London, England, 22 - 24 September 2010, vol.62 LNEE, pp.373-376
- C. A Hybrid Approach for Process Mining Using From to Chart Arranged by Genetic Algorithms LNCS San Sebastian Spain June 2010**  
Eşgin E., KARAGÖZ P.  
HYBRID ARTIFICIAL INTELLIGENCE SYSTEMS (HAIS), 13 - 18 June 2010
- CI. Using Semantic Information for Web Usage Mining Based Recommendation**  
Salın S., KARAGÖZ P.  
ISCIS, 28 - 30 September 2009
- CII. A workflow-based web service composition system**  
Karakoc E., Kardas K., Senkul P.  
IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT 2006), Hong Kong, PEOPLES R CHINA, 18 - 22 December 2006, pp.113-114
- CIII. 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

## Supported Projects

KARAGÖZ P., TOROSLU İ. H., ALTINGÖVDE İ. S., Project Supported by Higher Education Institutions, Derin Öğrenme ve Büyük Dil Modelleri Kullanan Öneri ve Arama Sistemleri, 2024 - Continues

Toffoli H., Günel Kiliç B., Akagündüz E., Akbaş E., Dülger Ö., Karaca M., Karagöz P., Manguoğlu M., Nazirzadeh S., Sezer Uzol N., et al., EU Supported Other Project, EuroCC2 - National Competence Centers in the Framework of EuroHPC Phase2, 2023 - 2026

Karagöz P., Toroslu I. H., Çekinel R. F., Öztürk A. U., Özer A. G., Sever Y., H2020 Project, EXA4MIND - EXTreme Analytics for MINing Data spaces, 2023 - 2025

Akkar Ercan Z. M., Pace G., Karagöz P., TÜBİTAK - AB COST Project, CA18110 Underground Built Heritage as Catalyser for Community Valorisation, 2019 - 2023

Toffoli H., Yerli S. K., Şener C., Manguoğlu M., Sezer Uzol N., Koku H., Karagöz P., H2020 Project, EuroCC, 2020 - 2022

KARAGÖZ P., TÜBİTAK International Bilateral Joint Cooperation Program Project, Açık ve Gizli Güven İlişkilerinden Faydalanan Güven Tabanlı Öneri Teknikleri Geliştirme, 2019 - 2021

Karagöz P., Industrial Thesis Project, AIS Verileri İle Rota Örüntüsü Çıkarımı ve Anomali Tespiti Savunma Sanayii İçin Araştırmacı Yetiştirme Programı (SAYP) Projesi, 2019 - 2020

Karagöz P., Karaman A. C., Iyigün C., Özcan E., Akar H., Kuzu Demir E. B., Polat F., TUBITAK Project, YÖK Program Ve Kontenjan Yönetim Sistemi YÖK PKYS, 2018 - 2020

KARAGÖZ P., TUBITAK Project, Çizge Veritabanı İçin Haber Odaklı Metin Ve Sosyal Ağ Verilerinden Bilgi Çıkarımı Amaçlı Çizge Madenciligi Kütüphanesi, 2018 - 2020

Toroslu I. H., Karagöz P., Project Supported by Other Private Institutions, Kullanıcı yorumlarından kişilik analizi, 2017 - 2018

Akkar Ercan Z. M., Çetin Y., Özdemir Ö. F., Dalgiç C., KARAGÖZ P., Project Supported by Higher Education Institutions, BAP-08-11-2017-004 ODTÜ Merkez Yerleşke 3 Boyutlu Veri Tabanı Oluşturma, 2017 - 2018

Karagöz P., Project Supported by Other Private Institutions, ATM Para yükleme optimizasyonu, 2017 - 2017

KARAGÖZ P., ŞİMŞEK A., Project Supported by Higher Education Institutions, Sosyal Ağlar için Reklam Öneri Sistemi, 2017 - 2017

KARAGÖZ P., SÜRER E., DALGIÇ C., Project Supported by Higher Education Institutions, Askeri Eğitimde İlk Yardım Tekniklerinin Öğretilmesi Amaçlı Oyunlaştırılmış Mobil Platform, 2016 - 2017

KARAGÖZ P., TUBITAK Project, Twitr Türkçe İçin Sosyal Ağlarda Olay Bulma Ve Bulunan Olaylar İçin Konum Tahmini, 2013 - 2015

KARAGÖZ P., Kırmemiş Alkan Ö., Project Supported by Higher Education Institutions, Web'de Davranış Deseni Keşifleri için Yapay Zeka Yöntemlerinin Kullanımı, 2013 - 2013

KARAGÖZ P., TUBITAK Project, Hissiyat odaklı Ağ tarayıcı, 2012 - 2013

KARAGÖZ P., Project Supported by Higher Education Institutions, Alana Özel Web Servis Keşfi, 2011 - 2011

KARAGÖZ P., Project Supported by Higher Education Institutions, Anlamsal Bilgi Destekli Web Kullanım Madenciligi, 2009 - 2010

## Activities in Scientific Journals

Turkish Journal Of Electrical Engineering And Computer Sciences, Committee Member, 2021 - Continues

Data Science and Pattern Recognition, Assistant Editor/Section Editor, 2018 - 2021

## Memberships / Tasks in Scientific Organizations

ODTÜ Mühendislik Fakültesi Yönetim Kurulu, Board Member, 2023 - Continues, Turkey

TÜBİTAK EEEAG Yürütme Kurulu , Executive Board Member, 2022 - Continues, Turkey

ACM, Member, 2018 - Continues, United States Of America

ODTÜ Mühendislik Fakültesi Eğitim Komisyonu , Member, 2018 - Continues, Turkey

IEEE, Member, 2018 - Continues, United States Of America

TÜBİTAK ARDEB EEAG Danışma Kurulu, Member of Advisory Board, 2019 - 2022, Turkey

## Scientific Refereeing

EMNLP Industry Track 2023, Conference Paper (Full Text), October 2023

Other International Funding Programs, Fundação para a Ciência e a Tecnologia (FCT), Portugal, April 2023

CONCURRENCY COMPUTATION PRACTICE AND EXPERIENCE, SCI Journal, February 2023

Universities of Other Countries Supported Project, Natural Sciences and Engineering Research Council of Canada, Canada, January 2021

CLUSTER COMPUTING-THE JOURNAL OF NETWORKS SOFTWARE TOOLS AND APPLICATIONS, SCI Journal, November 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Middle East Technical University, Turkey, October 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, August 2018

IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, SCI Journal, July 2018

JOURNAL OF AMBIENT INTELLIGENCE AND HUMANIZED COMPUTING, Journal Indexed in SCI-E, January 2018

APPLIED SOFT COMPUTING, Journal Indexed in SCI-E, January 2018

## Tasks In Event Organizations

Karagöz P., Şener C., Toffoli H., Yerli S. K., Manguoğlu M., Sezer Uzol N., Dülger Ö., Günel Kılıç B., Kalkan S., Karaca M., et al., 4th Workshop on High Performance Computing & Applications, Workshop Organization, Turkey, Kasım 2023

Karagöz P., Toroslu I. H., METU-Hanyang Joint Workshop, Scientific Congress, Turkey, Aralık 2022

Akkar Ercan Z. M., Karagöz P., Tiryaki İ. D., FIFTH UNDERGROUND4VALUE MEETINGS: , Scientific Congress, Ankara, Turkey, Mayıs 2022

Karagöz P., Şener C., BAŞARIM 2022 Çalışma Grubu Toplantısı - Büyük Ağ Analizi, Workshop Organization, İstanbul, Turkey, Mayıs 2022

Karagöz P., Yerli S. K., Şener C., Dülger Ö., Manguoğlu M., Uzol N., Toffoli H., Saygın A., ULUSAL YÜKSEK BAŞARIMLI HESAPLAMA KONFERANSI, Scientific Congress, İstanbul, Turkey, Mayıs 2022

Karagöz P., Kaya K., Vural E., EuroCC@Türkiye Çizge Okulu, Science / Art Camp or Summer School Organization, Ankara, Turkey, Kasım 2021

Kim S., Karagöz P., Toroslu İ. H., METU-Hanyang Joint Workshop, Workshop Organization, Seoul, South Korea, Temmuz 2021

Toffoli H., Karagöz P., Yerli S. K., Şener C., Manguoğlu M., Sezer Uzol N., High Performance Computing and Applications (HPCA), Workshop Organization, Ankara, Turkey, Mart 2021

Karagöz P., Akkar Ercan Z. M., Betin Can A., Oğuztüzün M. H. S., Tural M. K., 2019 USMOS Konferansı (Büyük veri çağında modelleme ve simülasyon), Scientific Congress, Ankara, Turkey, Kasım 2019

## Scientific Research / Working Group Memberships

Veri Madenciliği Araştırma Grubu, Middle East Technical University, Turkey, <https://teghub.ceng.metu.edu.tr>, 2010 - Continues

## Mobility Activity

Erasmus Programme, Lecturing, University of Ostrava, Czech Republic, 2023 - 2023

Erasmus Programme, Lecturing, Syddansk Universitet, Denmark, 2019 - 2019

## Metrics

Publication: 170

Citation (WoS): 1003

Citation (Scopus): 1407

H-Index (WoS): 18

H-Index (Scopus): 22

## Congress and Symposium Activities

METU-Hanyang Joint Workshop, Invited Speaker, Seoul, South Korea, 2021

Ulusal Yazılım Mühendisliği Sempozyumu, Panelists, İstanbul, Turkey, 2020

## Invited Talks

Konum Önerisi: Konum Tabanlı Ağlar ve Ağ Tabanlı Öneri Algoritmaları, Seminar, Hacettepe University, Turkey, November 2019

Hanyang University Computer Science Dept. Invited Talk, Seminar, Other Affiliations, South Korea, July 2019

Location Based Social Networks: Recommendation Generation for the Users, Seminar, Tobb Ekonomi Ve Teknoloji Üniversitesi, Turkey, October 2018

## Awards

Karagöz P., Distinguished reviewer award, International Conference On Very Large Databases (Vldb 2022), September 2022

Karagöz P., En iyi bildiri ödülü, International Conference On Management Of Emergent Digital Ecosystems (Medes), December 2020

Akkar Ercan Z. M., Karagöz P., Süreç E., Karaaslan V., Yardımcı Çetin Y., TÜBİTAK UFUK 2020 Programı Eşik Üstü Ödülü, Tübitak, June 2020

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

## Non Academic Experience

Massachusetts Institute of Technology

Orta Doğu Teknik Üniversitesi, Bilgisayar Müh Bölümü

Bilkent Üniversitesi, Bilgisayar Müh Bölümü

Bilkent Üniversitesi, Bilgisayar Müh Bölümü

Orta Doğu Teknik Üniversitesi, Bilgisayar Müh Bölümü

State University of New York at Stony Brook Bilgisayar Müh Bölümü