

# Prof. MUHAMMET ALİ AKCAYOL

## Personal Information

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## International Researcher IDs

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ScopusID: 55662828600

Yoksis Researcher ID: 109857

## Education Information

Post Doctorate, Michigan State University, United States Of America 2004 - 2004

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2000 - 2003

## Dissertations

Doctorate, Anahtarlamalı Relüktans Motorun Sinirsel Bulanık Denetimi, Gazi University, Fen Bilimleri Enstitüsü, 2002

Postgraduate, Bulanık Mantık Denetleyicili Fırçasız Doğru Akım Motoru Hız Kontrolü, Gazi University, Fen Bilimleri Enstitüsü, 1998

## Research Areas

Computer Networks, Artificial Intelligence, Computer Learning and Pattern Recognition

## Academic Titles / Tasks

Professor, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2012 - Continues

Associate Professor, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2006 - 2011

Lecturer, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2002 - 2003

Research Assistant, Gazi University, Fen Bilimleri Enstitüsü, -, 1994 - 2003

## Academic and Administrative Experience

Head of Department, Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği, 2020 - Continues

Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2012 - 2015

Gazi University, Mühendislik Fakültesi, 2010 - 2013

Gazi University, Bilişim Enstitüsü, Bilgisayar Bilimleri Anabilim Dalı (Disiplinlerarası), 2007 - 2013

Gazi University, Bilişim Enstitüsü, 2006 - 2010

## Courses

Zeki Optimizasyon Teknikleri, Doctorate, 2019 - 2020

## Advising Theses

- Akçayol M. A., DERİN ÖĞRENME KULLANARAK KIZILÖTESİ GÖRÜNTÜLERİ RENKLENDİRME, Postgraduate, O.ÇİFTÇİ(Student), 2021
- Akçayol M. A., Heterojen veri kaynaklarında fikir madenciliği, otomatik özellik çıkarımı ve duygu analizi, Doctorate, B.ÖZYURT(Student), 2021
- Akçayol M. A., Düşük Işıktaki Sürücü Yorgunluk Tespiti, Postgraduate, E.KAVALLI(Student), 2021
- Akçayol M. A., Öneri sistemlerinde derin öğrenme tabanlı otomatik sorgu tamamlama, Postgraduate, A.REHMAN(Student), 2021
- Akçayol M. A., Text summarization by hybrid intelligent system, Doctorate, B.MUTLU(Student), 2020
- AKCAYOL M. A., Recommendation System Based On Distribution Prediction In Stream Data And Unexpected Recommendation, Doctorate, A.UTKU(Student), 2020
- AKCAYOL M. A., Semantic Match Based Automatic Meta Search Engine And Application, Doctorate, Y.GÖZÜDELİ(Student), 2020
- AKCAYOL M. A., Adaptive, Context-Aware And Learning Smart Home System, Postgraduate, G.KAYA(Student), 2019
- AKCAYOL M. A., Creating A Data Set For Anomaly Detection In Network Traffic And Comparison Of Test Methods, Postgraduate, E.ERGİNAY(Student), 2019
- AKCAYOL M. A., Anomaly Detection For Stream Data, Postgraduate, O.CAN(Student), 2019
- AKCAYOL M. A., Yazılım projeleri için yapay zeka tabanlı risk yönetimi, Doctorate, M.HANEFİ(Student), 2017
- AKCAYOL M. A., Development Of Web Crawler And Ranking Algorithm, Doctorate, M.RASHAD(Student), 2017
- AKCAYOL M. A., Improvement of realization quality of aerospace products using augmented reality technology, Postgraduate, N.BAHAR(Student), 2017
- AKCAYOL M. A., Mobil bulut ortamlarında yük dağıtımını için bağlam-duyarlı bir karar verme sistemi, Doctorate, M.TANRIVERDİ(Student), 2017
- AKCAYOL M. A., User Behaviour Based Recommendation Engine, Postgraduate, A.UTKU(Student), 2015
- AKCAYOL M. A., Vehicle to vehicle ad hoc network application, Postgraduate, İ.KÖK(Student), 2015
- AKCAYOL M. A., Bulut bilişim üzerinde restful tabanlı mobil mashup uygulaması, Postgraduate, M.DEMİRCİOĞLU(Student), 2015
- AKCAYOL M. A., Developing an adaptive context aware mobile application, Postgraduate, M.İKBAL(Student), 2014
- AKCAYOL M. A., Cloud computing data security, Postgraduate, A.ÖZ(Student), 2013
- AKCAYOL M. A., Development of the transport layer protocol for IPTV, Postgraduate, A.HÜSEYNLİ(Student), 2013
- AKCAYOL M. A., Security aware routing protocol for wireless broadband mobile networks, Doctorate, M.ÜNAL(Student), 2010
- AKCAYOL M. A., GPS AND GPRS BASED APPLICATION FOR WIDE AREA NETWORK, Postgraduate, B.DERELİOĞLU(Student), 2007
- AKCAYOL M. A., Kablosuz ağlarda yönlendirme protokolü ve tıkanıklık denetimi, Postgraduate, M.ŞİMŞEK(Student), 2006

## Jury Memberships

Doctorate, Doctorate, Düzce Üniversitesi, June, 2020

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

- I. **Spread patterns of COVID-19 in European countries: hybrid deep learning model for prediction and transmission analysis**  
Utku A., AKCAYOL M. A.  
Neural Computing and Applications, vol.36, no.17, pp.10201-10217, 2024 (SCI-Expanded)
- II. **Deep Learning Based Classification for Hoverflies (Diptera: Syrphidae)**  
Ayaz Z., Akcayol M. A., Çiftçi D., Utku A.  
JOURNAL OF THE ENTOMOLOGICAL RESEARCH SOCIETY, vol.25, no.2, pp.529-544, 2023 (SCI-Expanded)
- III. **Deep convolutional neural network—the evaluation of cervical vertebrae maturation**  
AKAY G., AKCAYOL M. A., ÖZDEM K., GÜNGÖR K.  
Oral Radiology, vol.39, no.4, pp.629-638, 2023 (SCI-Expanded)
- IV. **Continuous Knowledge Graph Refinement with Confidence Propagation**  
Huseynli A., AKCAYOL M. A.  
IEEE Access, vol.11, pp.59226-59237, 2023 (SCI-Expanded)
- V. **A new topic modeling based approach for aspect extraction in aspect based sentiment analysis: SS-LDA**  
Ozyurt B., Akcayol M. A.  
Expert Systems with Applications, vol.168, 2021 (SCI-Expanded)
- VI. **Candidate sentence selection for extractive text summarization**  
Mutlu B., Sezer E., Akcayol M. A.  
INFORMATION PROCESSING & MANAGEMENT, vol.57, 2020 (SCI-Expanded)
- VII. **Deep Learning Based Prediction Model for the Next Purchase**  
Utku A., Akcayol M. A.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.20, pp.35-44, 2020 (SCI-Expanded)
- VIII. **An Experimental Research on the Use of Recurrent Neural Networks in Landslide Susceptibility Mapping**  
MUTLU B., NEFESLİOĞLU H. A., SEZER E., AKCAYOL M. A., GÖKÇEOĞLU C.  
ISPRS INTERNATIONAL JOURNAL OF GEO-INFORMATION, vol.8, no.12, 2019 (SCI-Expanded)
- IX. **Multi-document extractive text summarization: A comparative assessment on features**  
MUTLU B., SEZER E., AKCAYOL M. A.  
KNOWLEDGE-BASED SYSTEMS, vol.183, 2019 (SCI-Expanded)
- X. **A weighted multi-attribute-based recommender system using extended user behavior analysis**  
Akcayol M. A., Utku A., Aydogan E., Mutlu B.  
ELECTRONIC COMMERCE RESEARCH AND APPLICATIONS, vol.28, pp.86-93, 2018 (SCI-Expanded)
- XI. **A modified genetic algorithm for a special case of the generalized assignment problem**  
Dortlerler M., BAY Ö. F., AKCAYOL M. A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.25, no.2, pp.794-805, 2017 (SCI-Expanded)
- XII. **A GIS-based novel active monitoring system for fiber networks**  
Akdemir O. K., Dursun T., Arslan S., Benzer R., AKCAYOL M. A.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.1, pp.247-261, 2016 (SCI-Expanded)
- XIII. **A SCALABLE ROUTING PROTOCOL FOR WIRELESS MESH NETWORKS**  
Kocaoglu R., AKCAYOL M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.4, pp.891-899, 2012 (SCI-Expanded)
- XIV. **GENE SELECTION FOR BREAST CANCER CLASSIFICATION BASED ON DATA FUSION AND GENETIC ALGORITHM**  
YILDIZ O., Tez M., BİLGE H. Ş., AKCAYOL M. A., GÜLER İ.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.3, pp.659-668,

2012 (SCI-Expanded)

- XV. **DEVELOPMENT OF 3G BASED REMOTE CONTROLLED CAR**  
Simsek M., Yoldas M., Bulut A., DOĞRU İ. A., AKCAYOL M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.1, pp.135-142,  
2012 (SCI-Expanded)
- XVI. **A SIMPLE NEURO FUZZY MODEL FOR ISE 100 INDEX PREDICTION**  
OK Y., ATAK M., AKCAYOL M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, no.4, pp.897-904,  
2011 (SCI-Expanded)
- XVII. **A HYBRID GENETIC ALGORITHM FOR MULTISTAGE INTEGRATED LOGISTICS NETWORK  
OPTIMISATION PROBLEM**  
Demirel N., Gökçen H., Akcayol M. A., Demirel E.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, pp.929-936,  
2011 (SCI-Expanded)
- XVIII. **GENETIC ALGORITHM BASED A NEW ALGORITHM FOR TIME DYNAMIC SHORTEST PATH PROBLEM**  
DENER M., AKCAYOL M. A., Toklu S., BAY Ö. F.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.26, no.4, pp.915-928,  
2011 (SCI-Expanded)
- XIX. **Calculation of Electron Energy Distribution Functions From Electron Swarm Parameters Using  
Artificial Neural Network in SF6 and Argon**  
Tezcan S. S., AKCAYOL M. A., ÖZERDEM Ö. C., Dincer M. S.  
IEEE TRANSACTIONS ON PLASMA SCIENCE, vol.38, no.9, pp.2332-2339, 2010 (SCI-Expanded)
- XX. **CONGESTION CONTROL IN WAP TRAFFIC AND TRANSPORT LAYER PROTOCOLS**  
Toklu S., AKCAYOL M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.24, no.3, pp.397-407,  
2009 (SCI-Expanded)
- XXI. **NEFCLASS based extraction of fuzzy rules and classification of risks of low back disorders**  
AKAY D., AKCAYOL M. A., KURT M.  
EXPERT SYSTEMS WITH APPLICATIONS, vol.35, no.4, pp.2107-2112, 2008 (SCI-Expanded)
- XXII. **A HEURISTIC ROUTING PROTOCOL AND CONGESTION CONTROL AT WIRELESS NETWORKS**  
Simsek M., AKCAYOL M. A.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.23, no.1, pp.57-63,  
2008 (SCI-Expanded)
- XXIII. **Fuzzy pi controller for speed control of switched reluctance motor Bulanik pi denetleyici ile bir  
anahtarlamali relüktans motorun hiz denetimi**  
Elmas Ç., Akcayol M. A., Yiğit T.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.22, no.1, pp.64-72, 2007 (SCI-  
Expanded)
- XXIV. **Neuro-fuzzy controller implementation for an adaptive cathodic protection on Iraq-Turkey crude oil  
pipeline**  
Akcayol M. A., Sagiroglu Ş.  
APPLIED ARTIFICIAL INTELLIGENCE, vol.21, no.3, pp.241-256, 2007 (SCI-Expanded)
- XXV. **Implementation of real-time optimization of page layout of internet newspaper using simulated  
annealing İnternet gazetesi sayfa düzeninin gerçek zamanli eniyilemesinin benzetilmiş tavlama  
algoritmasıyla gerçekleştirilmesi**  
Canbek G., AKCAYOL M. A.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.21, no.2, pp.341-348, 2006 (SCI-  
Expanded)
- XXVI. **Application of fuzzy logic controlled cathodic protection on Iraq-Turkey crude oil pipeline**  
Akcayol M. A.  
APPLIED INTELLIGENCE, vol.24, no.1, pp.43-50, 2006 (SCI-Expanded)

- XXVII. **Forecasting net energy consumption using artificial neural network**  
Soezen A., Akcayol M. A., ARCAKLIOĞLU E.  
ENERGY SOURCES PART B-ECONOMICS PLANNING AND POLICY, vol.1, no.2, pp.147-155, 2006 (SCI-Expanded)
- XXVIII. **PICTool: Integrated hardware and software for teaching/learning FLC using microcontrollers**  
ERDEM O. A., Akcayol M. A., Orman A.  
INTELLIGENT AUTOMATION AND SOFT COMPUTING, vol.12, no.4, pp.411-417, 2006 (SCI-Expanded)
- XXIX. **Artificial neural network based modeling of heated catalytic converter performance**  
Akcayol M. A., Cinar C.  
APPLIED THERMAL ENGINEERING, vol.25, pp.2341-2350, 2005 (SCI-Expanded)
- XXX. **Reformulation, as a function of only working temperatures, of performance parameters of a solar driven ejector-absorption cycle using artificial neural networks**  
SÖZEN A., Akcayol M. A.  
ENERGY SOURCES, vol.27, no.12, pp.1133-1149, 2005 (SCI-Expanded)
- XXXI. **NEFCLASS-based neuro fuzzy controller for SRM drive**  
Akcayol M. A., Elmas Ç.  
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.18, no.5, pp.595-602, 2005 (SCI-Expanded)
- XXXII. **A computer-based educational tool for pulse width modulator for static converters**  
Akcayol M. A., Yigit T.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.12, no.4, pp.215-223, 2005 (SCI-Expanded)
- XXXIII. **Temperature prediction in a coal fired boiler with a fixed bed by fuzzy logic based on numerical solution**  
Biyikoglu A., Akcayol M. A., ÖZDEMİR V., Sivrioglu M.  
ENERGY CONVERSION AND MANAGEMENT, vol.46, no.1, pp.151-166, 2005 (SCI-Expanded)
- XXXIV. **Modelling (using artificial neural-networks) the performance parameters of a solar-driven ejector-absorption cycle**  
SÖZEN A., Akcayol M. A.  
APPLIED ENERGY, vol.79, no.3, pp.309-325, 2004 (SCI-Expanded)
- XXXV. **Performance prediction of a vapour-compression heat-pump**  
SÖZEN A., ARCAKLIOĞLU E., Erisen A., Akcayol M. A.  
APPLIED ENERGY, vol.79, no.3, pp.327-344, 2004 (SCI-Expanded)
- XXXVI. **An educational tool for fuzzy logic controller and classical controllers**  
Akcayol M. A., Elmas Ç., ERDEM O. A., Kurt M.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.12, no.2, pp.126-135, 2004 (SCI-Expanded)
- XXXVII. **Application of adaptive neuro-fuzzy controller for SRM**  
Akcayol M. A.  
ADVANCES IN ENGINEERING SOFTWARE, vol.35, pp.129-137, 2004 (SCI-Expanded)
- XXXVIII. **Performance prediction of a solar driven ejector-absorption cycle using fuzzy logic**  
SÖZEN A., Kurt M., Akcayol M. A., Ozalp M.  
RENEWABLE ENERGY, vol.29, no.1, pp.53-71, 2004 (SCI-Expanded)
- XXXIX. **Virtual electrical machinery laboratory: A fuzzy logic controller for induction motor drives**  
Elmas Ç., Akcayol M. A.  
INTERNATIONAL JOURNAL OF ENGINEERING EDUCATION, vol.20, no.2, pp.226-233, 2004 (SCI-Expanded)
- XL. **PC based educational tool for a switched reluctance drive with fuzzy logic**  
Elmas Ç., Akcayol M. A.  
INTERNATIONAL JOURNAL OF ELECTRICAL ENGINEERING EDUCATION, vol.40, no.3, pp.208-219, 2003 (SCI-Expanded)
- XLI. **An educational tool for fuzzy logic-controlled BDCM**  
Akcayol M. A., ÇETİN A., Elmas Ç.  
IEEE TRANSACTIONS ON EDUCATION, vol.45, no.1, pp.33-42, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Forecasting the Spread of COVID-19 Using Deep Learning and Big Data Analytics Methods**  
Kiganda C., AKCAYOL M. A.  
SN Computer Science, vol.4, no.4, 2023 (Scopus)
- II. **IMPROVING QOS IN MOBILE MULTIMEDIA STREAMING WITH SCTP-PQ**  
Hüseyinli A., Şimşek M., AKCAYOL M. A.  
Acta Polytechnica, vol.63, no.5, pp.347-355, 2023 (ESCI)
- III. **Deep Learning Based Video Event Classification**  
Gencaslan S., Utku A., AKCAYOL M. A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2022 (ESCI)
- IV. **Bird Species Classification Using Deep Learning: A Comparative Study**  
Mutlu Bilgin M., Özdem K., Akcayol M. A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.25, no.3, pp.1251-1260, 2022 (ESCI)
- V. **Machine Learning-Based Comparative Study For Heart Disease Prediction**  
Güllü M., Akcayol M. A., Barışçı N.  
Advances in Artificial Intelligence Research, vol.2, no.2, pp.51-58, 2022 (Peer-Reviewed Journal)
- VI. **Deep Learning Based Forecasting of Delay on Flights**  
Ayaydın A., Akcayol M. A.  
INTERNATIONAL JOURNAL OF INFORMATICS TECHNOLOGIES, vol.15, no.3, pp.239-249, 2022 (Peer-Reviewed Journal)
- VII. **Türkiye’de Bağlantılı Araç Teknolojisinin Gelişimi**  
Akcayol M. A., Erceylan G.  
Avrupa Bilim ve Teknoloji Dergisi, vol.37, pp.139-146, 2022 (Peer-Reviewed Journal)
- VIII. **A novel web ranking algorithm based on pages multi-attribute**  
Baker M. R., AKCAYOL M. A.  
International Journal of Information Technology (Singapore), vol.14, no.2, pp.739-749, 2022 (Scopus)
- IX. **Derin Öğrenme ile Görüntülerde Gürültü Azaltma Üzerine Kapsamlı Bir İnceleme**  
Yapıcı A., Akcayol M. A.  
International journal of advances in engineering and pure sciences (Online), vol.34, no.1, pp.65-90, 2022 (Peer-Reviewed Journal)
- X. **Prediction of the Next Time of an Event with Deep Learning Based Model**  
Utku A., AKCAYOL M. A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.24, no.1, pp.1-15, 2021 (ESCI)
- XI. **A Model for Prediction of Customer Behavior: A Case Study for Banking Sector**  
Özdem K., Akcayol M. A.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.10, no.1, pp.1-8, 2021 (Peer-Reviewed Journal)
- XII. **Derin Öğrenme Tabanlı Model ile Bir Olayın Sonraki Olma Zamanının Tahmini**  
UTKU A., AKCAYOL M. A.  
Journal of Polytechnic, vol.24, no.1, pp.1-15, 2021 (ESCI)
- XIII. **VİDEO ETİKETLEME UYGULAMALARINDA DERİN ÖĞRENME YAKLAŞIMLARININ KULLANILMASI ÜZERİNE KAPSAMLI BİR İNCELEME**  
ALPAY Ö., AKCAYOL M. A.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.8, no.5, pp.271-289, 2020 (Peer-Reviewed Journal)
- XIV. **Deep Learning based, a New Model for Video Captioning**  
Ozer E. G., Karapınar I. N., Busbug S., Turan S., Utku A., AKCAYOL M. A.  
INTERNATIONAL JOURNAL OF ADVANCED COMPUTER SCIENCE AND APPLICATIONS, vol.11, no.3, pp.514-519, 2020 (ESCI)
- XV. **Design and implementation of web based risk management system based on artificial neural networks for software projects: WEBRISKIT**

CALP M. H., AKCAYOL M. A.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.26, no.5, pp.993-1014, 2020 (ESCI)

- XVI. **A comprehensive study on stream data characterization, generation and analytics**  
UTKU A., AKCAYOL M. A.  
Erzincan University Journal of Science and Technology, vol.12, no.1, pp.379-410, 2019 (Peer-Reviewed Journal)
- XVII. **Genetic Algorithm and Fuzzy Logic Based Flexible Querying in Databases**  
ŞENOL A., KARACAN H., AKCAYOL M. A.  
JOURNAL OF COMPUTERS, vol.13, no.6, pp.678-691, 2018 (Peer-Reviewed Journal)
- XVIII. **A comprehensive review on the use of big data in recommendation systems**  
UTKU A., AKCAYOL M. A.  
International Journal of Advances in Engineering and Pure Sciences, vol.30, no.4, pp.339-357, 2018 (Peer-Reviewed Journal)
- XIX. **Development of Reserved Reliable Flow Control Algorithm in Mobile Ad Hoc Networks**  
DOĞRU İ. A., ERDEM O. A., AKCAYOL M. A.  
Gazi Journal of Engineering Sciences, vol.4, no.3, pp.144-156, 2018 (Peer-Reviewed Journal)
- XX. **A New Context-Sensitive Decision Making System For Mobile Cloud Offloading**  
TANRIVERDİ M., AKCAYOL M. A.  
International Journal of Computer Science Information Technology, vol.10, no.3, pp.71-90, 2018 (Peer-Reviewed Journal)
- XXI. **Optimization of Project Scheduling Activities in Dynamic CPM and PERT Networks Using Genetic Algorithms**  
CALP M. H., AKCAYOL M. A.  
Süleyman Demirel University, Journal of Natural and Applied Sciences, vol.22, no.2, pp.615-627, 2018 (Peer-Reviewed Journal)
- XXII. **A Survey On Sentiment Analysis And Opinion Mining, Methods And Approaches**  
ÖZYURT B., AKCAYOL M. A.  
Selcuk University, Journal of Engineering Science and Technology, vol.6, no.4, pp.668-693, 2018 (Peer-Reviewed Journal)
- XXIII. **An Efficient Multi-Threaded Web Crawler Using HashMaps**  
Kansu Y., MUTLU B., UTKU A., AKCAYOL M. A.  
Journal of Advances in Computer Networks (JACN), vol.5, no.2, pp.65-69, 2017 (Peer-Reviewed Journal)
- XXIV. **A New Packet Scheduling Algorithm for Real-Time Multimedia Streaming**  
ŞİMŞEK M., DOĞAN N., AKCAYOL M. A.  
Network Protocols and Algorithms, vol.9, 2017 (Peer-Reviewed Journal)
- XXV. **Crime Analysis Based on Association Rules Using Apriori Algorithm**  
Sevri M., Karacan H., Akcayol M. A.  
International Journal of Information and Electronics Engineering, vol.7, no.3, pp.99-102, 2017 (Peer-Reviewed Journal)
- XXVI. **Öğrenebilen ve Adaptif Tavsiye Sistemleri İçin Karşılaştırmalı ve Kapsamlı Bir İnceleme**  
UTKU A., AKCAYOL M. A.  
Erciyes Üniversitesi Fen Bilimleri Dergisi, vol.33, no.3, 2017 (Peer-Reviewed Journal)
- XXVII. **Analyzing the Route Cache Timeout Parameter of DSR Protocol in Mobile Ad Hoc Networks**  
ÖZYURT B., DOĞRU İ. A., AKCAYOL M. A.  
International Journal of Computer and Communication Engineering (IJCCE), vol.6, no.1, pp.40-48, 2017 (Peer-Reviewed Journal)
- XXVIII. **Implementation of a New Recommendation System Based on Decision Tree Using Implicit Relevance Feedback**  
UTKU A., KARACAN H., YILDIZ O., AKCAYOL M. A.  
Journal of Software, vol.10, no.12, pp.1367-1374, 2015 (Peer-Reviewed Journal)
- XXIX. **Context Aware Decision Making System for Mobile Cloud Offloading**

TANRIVERDİ M., AKCAYOL M. A.

International Journal of Computer Networks & Communications, vol.7, no.6, pp.69-85, 2015 (Peer-Reviewed Journal)

- XXX. **Yazılım Projelerinde Karşılaşılan Risk Faktörleri ve Risk Yönetim Süreci**  
CALP M. H., AKCAYOL M. A.  
MARMARA UNIVERSITY JOURNAL OF SCIENCE, vol.27, no.1, pp.1, 2015 (Peer-Reviewed Journal)
- XXXI. **The importance of human computer interaction in the development process of software projects**  
CALP M. H., AKCAYOL M. A.  
Global Journal of Information Technology, pp.48-54, 2015 (Peer-Reviewed Journal)
- XXXII. **Teknokent lerde Geliştirilen Yazılım Projelerinin Risk Analizi ve Başarı Düzeyleri**  
CALP M. H., AKCAYOL M. A.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.3, no.1, pp.57-75, 2015 (Peer-Reviewed Journal)
- XXXIII. **A Survey of Multicast Routing Protocols in Ad Hoc Networks**  
BAKER M. R., AKCAYOL M. A.  
Gazi University Journal of Science, vol.24, no.3, pp.451-462, 2011 (Scopus)
- XXXIV. **Performance analysis and solutions for wireless mesh networks**  
KOCAOĞLU R., AKCAYOL M. A.  
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- XXXV. **Prediction based handover algorithms in wireless networks**  
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- XXXVI. **Application of GSM based smart home**  
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- XXXVII. **Hareketli Ad-Hoc Ağlarda Bir Hareketlilik Yönetimi Protokolü**  
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- XXXVIII. **A Mobility Management Protocol On Mobile Ad-Hoc Networks**  
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- XXXIX. **Secure routing protocols in wireless networks**  
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- XL. **XML database query optimization using simulated annealing**  
GÖZÜDELİ Y., AKCAYOL M. A.  
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- XLI. **İnternet tabanlı uzaktan güvenlik sistemi tasarımı ve uygulaması**  
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EROL H., AKCAYOL M. A.  
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- XLIII. **REAL TIME OPTIMIZATION OF WEB PAGE LAYOUT USING GENETIC ALGORITHM**  
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- XLV. **Fuzzy pi controller for speed control of switched reluctance motor**  
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- XLVI. **İnternet Gazetesi Sayfa Düzeninin Gerçek Zamanlı Optimizasyonun Tavlama Benzetimi Algoritmasıyla Gerçekleştirilmesi**  
CANBEK G., AKCAYOL M. A.  
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- XLVII. **A software development for smart card applications for use in health system**  
AKCAYOL M. A., ELMAS Ç.  
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- XLVIII. **Artificial neural network based modeling of injection pressure in diesel engines**  
Akcayol M. A., Çınar C., Bülbül H. İ., Kılıçarslan A.  
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- XLIX. **Fuzzy logic controlled cathodic protection circuit design**  
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- L. **NEFCLASS based estimator for inductance variation of SRM**  
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- LI. **Computer controlled trafo redresor unit design and application**  
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- LII. **Fuzzy logic based speed control of brushless DC motor**  
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- LIII. **Benefits of data compressing in computers**  
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- LIV. **Bilgisayarlarda veri sıkıştırma ile elde edilecek kazanımlar**  
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## **Books & Book Chapters**

- I. **A novel model for risk estimation in software projects using artificial neural network**  
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- II. **İlişkiler**  
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## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Trust-Chain-Based Certificate Revocation Control in Autonomous Vehicle Networks**

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- II. **Bloom Filter Based Graph Database CRUD Optimization for Stream Data**  
HÜSEYNLİ A., AKCAYOL M. A.  
11th IEEE International Conference on Intelligent Data Acquisition and Advanced Computing Systems, cracow, Poland, 22 - 25 September 2021
- III. **Long Short-Term Memory Based Query Auto-Completion**  
Qureshi A. R. A., AKCAYOL M. A.  
8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, Antalya, Turkey, 9 - 11 April 2021, pp.259-266
- IV. **Thermal Infrared Colorization Using Deep Learning**  
Ciftci O., Ali Akcavol M. A.  
8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, Antalya, Turkey, 9 - 11 April 2021, pp.323-326
- V. **Locality Sensitive Hashing Based Clustering for Large Scale Documents**  
Özdem K., Akcayol M. A.  
6th International Conference on Mathematics and Artificial Intelligence, ICMAI 2021, Virtual, Online, China, 19 - 21 March 2021, pp.137-142
- VI. **A New Deep Learning-Based Prediction Model for Purchase Time Prediction Satin Alma Zamanmm Tahminine Yönelik Derin Öğrenme Tabanlı Yeni Bir Tahmin Modeli**  
Utku A., AKCAYOL M. A.  
6th International Conference on Computer Science and Engineering, UBMK 2021, Ankara, Turkey, 15 - 17 September 2021, pp.6-9
- VII. **A Review of Image Denoising with Deep Learning**  
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- VIII. **Automated Machine Learning Platform Otomatik Makine Öğrenmesi Platformu**  
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- IX. **A Novel Model for Risk Estimation in Software Projects Using Artificial Neural Network**  
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- X. **Anomaly detection in the stream data by using nearest neighbor regression and linear regression analysis**  
ACAR O. C., AKCAYOL M. A.  
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- XI. **Deep Learning Based an Application for Anomaly Detection at Institutional Network**  
Erginay E., AKCAYOL M. A.  
International Data Science and Engineering Symposium, 2 - 03 May 2019
- XII. **Smart Home System Using Sequential Pattern Mining**  
KAYA G., BECERGEN YETKİN B., AKCAYOL M. A.  
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- XIII. **Design Of An Expert System Supported Portable Cardiocograph (CTG)**  
ŞİMŞEK M., DOĞRU İ. A., AKCAYOL M. A.  
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- XIV. **Permission Based Android Malware Detection With Multilayer Perceptron**  
Utku A., Muhendisligi B., AKCAYOL M. A.  
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- XV. **End-to-End Hierarchical Fuzzy Inference Solution**  
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- XVI. **Specification Based Automatic Product Categorization From Unstructured Data**  
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- XVII. **Deep Learning Approach for Author Verification Problem on Twitter**  
Yilmaz M., MUTLU B., Utku A., AKCAYOL M. A.  
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- XVIII. **Automatic Rule Generation of Fuzzy Systems: A Comparative Assessment on Software Defect Prediction**  
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- XIX. **Decision Tree Based Android Malware Detection System**  
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- XX. **A New Recommender System Based on Multiple Parameters and Extended User Behavior Analysis**  
UTKU A., AYDOĞAN DUMAN E., MUTLU B., AKCAYOL M. A.  
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- XXI. **A Fuzzy Approach to Determine the Quality of Automatic Summaries**  
MUTLU B., SEZER E., AKCAYOL M. A.  
The 5th International Fuzzy Systems Symposium 2017, 14 - 15 October 2017
- XXII. **Priority Queue Based Estimation of Importance of Web Pages for Web Crawlers**  
BAKER M. R., AKCAYOL M. A.  
3rd International Conference on Computer and Information Technology 2017, 12 - 14 April 2017
- XXIII. **Assembly Inspection in Aircraft Manufacturing Using Augmented Reality Technology**  
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- XXIV. **Crime Analysis Based on Association Rules Using Apriori Algorithm**  
SEVRİ M., KARACAN H., AKCAYOL M. A.  
4th International Conference on Electrical and Electronics Engineering (ICEEE 2017), Ankara, Turkey, 8 - 10 April 2017
- XXV. **A Comprehensive Analysis of Architectures and Methods of Real-Time Big Data Analytics**  
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- XXVI. **An Efficient Multi-Threaded Web Crawler Using HashMaps**  
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4th International Conference on Electrical and Electronics Engineering 2017, 8 - 10 April 2017
- XXVIII. **Improvement of Realization Quality of Aerospace Products Using Augmented Reality Technology**  
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18th International Conference on Virtual and Augmented Reality (ICVAR2016), 7 - 08 January 2016, vol.10, pp.18-21
- XXIX. **A Comprehensive Survey for Sentiment Analysis Tasks Using Machine Learning Techniques**  
Aydoğan E., AKCAYOL M. A.  
International Symposium on Innovations in Intelligent Systems and Applications (INISTA), Sinaia, Romania, 2 - 05 August 2016

- XXX. **Implementation of a New Recommendation System Based On Decision Tree Using Implicit Relevance Feedback**  
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- XXXI. **The Importance of Human Computer Interaction in the Development Process of Software Projects**  
CALP M. H., AKCAYOL M. A.  
5th WORLD CONFERENCE on INNOVATION and COMPUTER SCIENCES - INSODE-2015, 14 - 16 May 2015
- XXXII. **A New Method Based on Tree Simplification and Schema Matching for Automatic Web Result Extraction and Matching**  
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- XXXIII. **Extraction of Automatic Search Result Records Using Content Density Algorithm Based on Node Similarity**  
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- XXXIV. **Gene selection for breast cancer Meme kanseri sınıflandırması için gen seçimi**  
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- XXXV. **A comprehensive analysis of e-learning studies in Turkey, problems and suggestions**  
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- XXXVI. **A Comprehensive Analysis of E-Learning Studies in Turkey**  
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- XXXVII. **İki Makineli Robotik Hücrelerde Çoklu Parça Tipi Çizelgemesi İçin Bir Tavlama Benzetimi Algoritması**  
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- XL. **A Priority Based Protocol And Load Balancing For Queue Management On Wireless Networks**  
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- XLI. **Rule-Based Mobility Management Routing for Mobile Ad Hoc Networks**  
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- XLII. **Adaptive cathodic protection for crude oil pipeline**  
AKCAYOL M. A., TAPLAMACIOĞLU M. C.  
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- XLIII. **Determination of the response of Ar+SF6 to crossed electric and magnetic fields using an artificial neural network**  
AKCAYOL M. A., Hiziroglu H. R., Dincer M. S.  
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- XLIV. **E signature in institutional networks and a sample application for Gazi University**  
EROL H., AKCAYOL M. A.  
1st National Electronic Signature Symposium, Turkey, 7 - 08 December 2006
- XLV. **Present condition analysis and suggestions for e signature applications in the Turkey**  
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- XLVI. **Genetic Algorithm Based Location Optimization of Emergency Service Units**  
AKCAYOL M. A., ŞİMŞEK M., BAY İ., TOKLU S., DOĞRU İ. A.  
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- XLVII. **E library studies in Turkey analysis and proposals**  
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Academic Informatics 2005, Turkey, 2 - 04 February 2005
- XLVIII. **E government studies in Turkey problems and solutions**  
AKCAYOL M. A.  
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- XLIX. **Artificial neural network based modeling of stirling engine**  
ÇINAR C., AKCAYOL M. A.  
ICCI2004-International Conference on Computational Intelligence, 27 - 29 May 2004
- L. **Genetic PI controller for a permanent magnet synchronous motor drive**  
ELMAS Ç., AKCAYOL M. A.  
International XII.Turkish Symposium on Artificial Intelligence and Neural Networks-TAINN-2003, 2 - 04 July 2003
- LI. **SCADA based trafo redresor unit design and application**  
IŞIK H., AKCAYOL M. A.  
VIII. International Corrosion Symposium, 16 - 17 June 2002, pp.343-352

## Supported Projects

- Akcayol M. A., Hardalaç F., TUBITAK Project, İnternette Heterojen Veri Kaynaklarından Veri Toplanması, Doğrulanması ve Sorgulanması, 2019 - 2026
- Yüksel Ü., Akcayol M. A., Gürel Z. A., Özkazanç S., Alkan Gökler L., Yenigül S. B., Gültekin Y., TUBITAK Project, Planlama Süreçlerine Kentsel Isı Adası Etkisi Azaltımının Entegrasyonu İçin Bir Model: Yerel İklim Bölgesi Temelli Morfolojik Yaklaşım, 2022 - 2025
- Taplamacıoğlu M. C., Akcayol M. A., Project Supported by Other Private Institutions, Multi-Purpose Hybrid Autonomous Drone Design and Prototype Manufacturing, 2023 - 2023
- AKCAYOL M. A., Project Supported by Higher Education Institutions, Akış Verisindeki Dağılım Tahminine Dayalı Tavsiye Sistemi ve Beklenmedik Öneri Sunma, 2019 - 2021
- AKCAYOL M. A., Other International Funding Programs, İnternet Üzerindeki Veri Kaynaklarından Toplanan Türkçe Veriler Üzerinden Bilgi Çıkarımı ve RDF'ler Halinde Bilgi Sunumu, 2018 - 2019
- AKCAYOL M. A., Other International Funding Programs, İNTERNET ORTAMINDAKİ KULLANICI YORUMLARINA DAYALI OTOMATİK ÖZELLİK ÇIKARIMI VE DUYGU ANALİZİ, 2017 - 2018
- AKCAYOL M. A., Other International Funding Programs, İnternette Heterojen Veri Kaynaklarından Veri Toplanması Doğrulanması ve Sorgulanması, 2016 - 2017
- AKCAYOL M. A., TUBITAK Project, Web Madenciliği Yöntemleri Kullanarak Kullanıcı Davranışı Ve Komşuluk Analizine Dayalı Tavsiye Motoru Geliştirilmesi, 2015 - 2017
- AKCAYOL M. A., Project Supported by Other Private Institutions, Artırılmış Gerçeklik Teknolojisi ile Havacılık Ürünlerinin Uygulamaya Geçirilme Kalitesinin Yükseltilmesi, 2015 - 2017
- AKCAYOL M. A., YILDIZ O., Industrial Thesis Project, Anlamsal Eşleştirme Temelli Otomatik Meta Arama Motoru ve Uygulaması Huawei Telekomunikasyon Ltd Şti ve Bilim Sanayi ve Teknoloji Bakanlığı tarafından desteklenmiştir Proje Yürütücüsü 0431 STZ 2013 2 2013, 2014 - 2015

AKCAYOL M. A., Industrial Thesis Project, Anlamsal Eşleştirme Temelli Otomatik Meta Arama Motoru ve Uygulaması, 2014 - 2015

Akcayol M. A., World Bank Supported Project, Veri Madenciliği Yöntemleri Kullanılarak Sağlık Personeli Eğitim İhtiyaçlarının Analizi Gereklî Yazılımın Tasarımı ve Geliştirilmesi, 2014 - 2015

Akcayol M. A., Ministry of Health, 18 Yaş Altı Oku Yazar Bireylerin İnternet Bağımlılığının Sosyo Demografik Özelliklerine Göre Analizi ve Birey Sağlığı Üzerindeki Etkilerinin Tespiti Araştırması, 2014 - 2015

AKCAYOL M. A., Project Supported by Higher Education Institutions, KABLOSUZ AĞLARDA ÇOKLU GÖNDERİM PROTOKOLÜ GELİŞTİRİLMESİ, 2010 - 2013

Akcayol M. A., Gökçen H., TUBITAK Project, Performans Tabanlı Kaynak Yönetim Sistemiyle Trafik Denetleme ve Kaza Bilirkişilik Hizmetlerinin Yeniden Yapılandırılması ve Bölge Trafik İstasyonlarının Lokasyonlarının Optimizasyonu, 2012 - 2012

AKCAYOL M. A., Project Supported by Higher Education Institutions, 3G TABANLI ADAPTİF VE ENERJİ ETKİN AKILLI EV UYGULAMASI, 2010 - 2012

AKCAYOL M. A., Project Supported by Higher Education Institutions, Genişbant Kablosuz Mobil Ağlarda Güvenlik Bilinçli Zeki Yönlendirme Protokolü Geliştirilmesi, 2009 - 2011

Akcayol M. A., Erasmus Project, Veri Güvenliğinde Yeni Eğilimler ve Savunma Stratejileri, 2010 - 2010

AKCAYOL M. A., Project Supported by Higher Education Institutions, GMS/GPRS Tabanlı Kablosuz Ağ İle Türkiye Genelini Kapsayacak Sağlık Bilgi Ağı Geliştirilmesi, 2005 - 2007

AKCAYOL M. A., Project Supported by Higher Education Institutions, Yapay Zeka İle Sorgu İyileştirmeli Açık Kaynak Doğal XML Veri Tabanı Sunucu Yazılımı, 2005 - 2007

AKCAYOL M. A., Project Supported by Higher Education Institutions, GBM Tabanlı SCADA sistem tasarımı ve uygulaması, 2003 - 2005

## Scientific Refereeing

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TÜBİTAK, Turkey, October 2021

TUBITAK Project, 1501 - Industry R & D Projects Support Program, MPES, Turkey, April 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, REGNA , Turkey, April 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, MPES , Turkey, April 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, GÖKAY BİLGİ TEKNOLOJİLERİ, Turkey, March 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ASİS , Turkey, February 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, SKYSENS , Turkey, February 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ECHONOS , Turkey, February 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ARTESİS , Turkey, February 2020

## Metrics

Publication: 152

Citation (WoS): 624

Citation (Scopus): 900

H-Index (WoS): 13

H-Index (Scopus): 14

## Congress and Symposium Activities

4th International Conference on Artificial Intelligence and Big Data, Session Moderator, Chengdu, China, 2021

## **Non Academic Experience**

Gazi Üniversitesi

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