

# Prof. MUHAMMET ALİ AKCAYOL

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: AAC-9739-2020

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

Artificial Intelligence, Computer Learning and Pattern Recognition, Natural Language Processing, Text/Document Processing, Pattern Recognition and Image Processing, Software Engineering

## 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

Gazi University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2003 - 2010

## Courses

Zeki Optimizasyon Teknikleri, Doctorate, 2019 - 2020

## Advising Theses

Akçayol M. A., Video'da derin öğrenme tabanlı görüntü azaltma, Doctorate, A.YAPICI(Student), 2024

Akçayol M. A., İnternet'te heterojen veri kaynaklarından veri toplanması, entegrasyonu ve güncellenmesi, Doctorate, Z.ALANOĞLU(Student), 2024

Akçayol M. A., Aydemir T., Machine learning-based fault prediction for mega satellite constellation agents, Doctorate, O.TARAKÇIOĞLU(Student), 2023

Akçayol M. A., Information extraction and verification in web-scale big data sources, Doctorate, A.HÜSEYİNLİ(Student), 2023

Akçayol M. A., DERİN ÖĞRENME MİMARİLERİNDE GÖRÜNTÜ VERİLERİ KULLANILARAK KENDİ KENDİNE EĞİTİM (SELF-TRAINING), Doctorate, K.ÖZDEM(Student), 2023

Akçayol M. A., Derin öğrenme ve büyük veri analitiği yöntemleri kullanarak Covid-19 yayılımının ileriye dönük tahmini, Postgraduate, C.KIGANDA(Student), 2023

Akçayol M. A., İnternette heterojen veri kaynaklarından verinin toplanması, doğrulanması ve sorgulanması, Doctorate, S.KÜRŞAT(Student), 2023

Akçayol M. A., V2X iletişimde kullanılan güvenlik teknolojileri ve Türkiye'de uygulanması, Postgraduate, G.ERCEYLAN(Student), 2022

Akçayol M. A., DERİN ÖĞRENME KULLANARAK KIZILÖTESİ GÖRÜNTÜLERİ RENKLENDİRME, Postgraduate, O.ÇİFTÇİ(Student), 2021

Akçayol M. A., Düşük Işıktaki Sürücü Yorgunluk Tespiti, Postgraduate, E.KAVALCI(Student), 2021

Akçayol M. A., Heterojen veri kaynaklarında fikir madenciliği, otomatik özellik çıkarımı ve duygu analizi, Doctorate, B.ÖZYURT(Student), 2021

Akçayol M. A., Deep Learning Based Large-Scale Document Clustering With Content-Based Similarity, Postgraduate, K.ÖZDEM(Student), 2021

Akçayol M. A., Öneri sistemlerinde derin öğrenme tabanlı otomatik sorgu tamamlama, Postgraduate, A.REHMAN(Student), 2021

AKÇAYOL M. A., Semantic Match Based Automatic Meta Search Engine And Application, Doctorate, Y.GÖZÜDELİ(Student), 2020

Akçayol M. A., Text summarization by hybrid intelligent system, Doctorate, B.MUTLU(Student), 2020

AKÇAYOL M. A., Recommendation System Based On Distribution Prediction In Stream Data And Unexpected Recommendation, Doctorate, A.UTKU(Student), 2020

AKÇAYOL M. A., Adaptive, Context-Aware And Learning Smart Home System, Postgraduate, G.KAYA(Student), 2019

AKÇAYOL M. A., Creating A Data Set For Anomaly Detection In Network Traffic And Comparison Of Test Methods, Postgraduate, E.ERGİNAY(Student), 2019

AKÇAYOL M. A., Anomaly Detection For Stream Data, Postgraduate, O.CAN(Student), 2019

AKÇAYOL M. A., Yazılım projeleri için yapay zeka tabanlı risk yönetimi, Doctorate, M.HANEFİ(Student), 2017

AKÇAYOL M. A., Mobil bulut ortamlarında yük dağıtım için bağlam-duyarlı bir karar verme sistemi, Doctorate, M.TANRIVERDİ(Student), 2017

AKÇAYOL M. A., Development Of Web Crawler And Ranking Algorithm, Doctorate, M.RASHAD(Student), 2017

AKÇAYOL M. A., Improvement of realization quality of aerospace products using augmented reality technology, Postgraduate, N.BAHAR(Student), 2017

AKÇAYOL M. A., Vehicle to vehicle ad hoc network application, Postgraduate, İ.KÖK(Student), 2015

AKCAYOL M. A., User Behaviour Based Recommendation Engine, Postgraduate, A.UTKU(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., Sagirolu 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 algoritmasiyla 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**  
Akçayol 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**  
Akçayol 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., Akçayol 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., Akçayol 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., Akçayol 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**  
Akçayol 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. **INTRUSION DETECTION MODEL USING MACHINE LEARNING ALGORITHMS ON NSL-KDD DATASET**  
Alshamy R., AKÇAYOL M. A.  
International Journal of Computer Networks and Communications, vol.16, no.6, pp.75-88, 2024 (Scopus)
- II. **EMACrawler: web search engine database freshness optimization**  
Alanoglu Z., AKÇAYOL M. A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, 2024 (ESCI)
- III. **Hybrid Deep Learning Model for Earthquake Time Prediction**  
Utku A., AKÇAYOL M. A.  
Gazi University Journal of Science, vol.37, no.3, pp.1172-1188, 2024 (ESCI)
- IV. **CNN Based Automatic Speech Recognition: A Comparative Study**  
Ilgaz H., Akkoyun B., Alpay Ö., AKÇAYOL M. A.  
Advances in Distributed Computing and Artificial Intelligence Journal, vol.13, 2024 (ESCI)
- V. **Deep Learning Based Video Event Classification**  
Gencaslan S., Utku A., AKÇAYOL M. A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, no.3, pp.1155-1165, 2023 (ESCI)
- VI. **Deep Learning Based Model for Predicting the Contribution of SMEs to the Economy**  
UTKU A., SEVİNÇ A., AKÇAYOL M. A.  
Firat Üniversitesi Mühendislik Bilimleri Dergisi, vol.35, no.2, pp.865-874, 2023 (Peer-Reviewed Journal)
- VII. **Seed URL Selection and Performance Analysis in Web Crawlers: A Comprehensive Review**  
ALANOĞLU Z., AKÇAYOL M. A.  
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.11, no.3, pp.1399-1423, 2023 (Peer-Reviewed Journal)
- VIII. **Forecasting the Spread of COVID-19 Using Deep Learning and Big Data Analytics Methods**  
Kiganda C., Akçayol M. A.  
SN Computer Science, vol.4, no.4, 2023 (Scopus)
- IX. **IMPROVING QOS IN MOBILE MULTIMEDIA STREAMING WITH SCTP-PQ**  
Hüseyinli A., Şimşek M., AKÇAYOL M. A.  
Acta Polytechnica, vol.63, no.5, pp.347-355, 2023 (ESCI)
- X. **Bird Species Classification Using Deep Learning: A Comparative Study**  
Mutlu Bilgin M., Özdem K., Akçayol M. A.  
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.25, no.3, pp.1251-1260, 2022 (ESCI)
- XI. **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)

- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **Prediction of the Next Time of an Event with Deep Learning Based Model**  
Utku A., AKCAYOL M. A.  
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGISİ, vol.24, no.1, pp.1-15, 2021 (ESCI)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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 UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGISİ, vol.26, no.5, pp.993-1014, 2020 (ESCI)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **A New Context-Sensitive Decision Making System For Mobile Cloud Offloading**  
Tanrıverdi M., Akcayol M. A.  
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- XXVII. **A Survey On Sentiment Analysis And Opinion Mining, Methods And Approaches**  
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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 Gerekli 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

## Activities in Scientific Journals

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Committee Member, 2022 - Continues

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Committee Member, 2020 - Continues

GAZI UNIVERSITY JOURNAL OF SCIENCE, Committee Member, 2020 - Continues

## 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: 169

Citation (WoS): 659

Citation (Scopus): 936

H-Index (WoS): 13

H-Index (Scopus): 15

## Congress and Symposium Activities

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

## Non Academic Experience

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