

MUSTAFA AKPINAR

Senior Member, IEEE | Associate Professor Qualification (Türkiye Council of Higher Education, 2024)
Assistant Professor, Computer Information Science (Higher Colleges of Technology – Sharjah Campus)
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ACADEMIC PROFILE

Senior IEEE member and academic with interdisciplinary expertise in computer information science, software engineering, artificial intelligence, forecasting, applied statistics, mechanical engineering, data mining, and energy economics. Research and applied consultancy work span smart manufacturing, energy demand estimation, predictive analytics, and cybersecurity analytics. The current record includes 28 journal articles, 38 conference papers, one book, more than 900 Google Scholar citations, and editorial/reviewer service for Scopus- and SCI-indexed journals.

28 Journal Articles	38 Conference Papers	1 Book	935 Google Scholar Citations
16 Google Scholar h-index	13 Scopus h-index	9 Web of Science h-index	4 / 60+ M.Sc. / Undergraduate Students

RESEARCH INTERESTS

- Forecasting and time-series modeling
- Data mining and predictive analytics
- Numerical analysis and finite element methods
- Artificial intelligence and machine learning
- Metaheuristic optimization
- Smart manufacturing and Industry 4.0 analytics
- Applied statistics and econometrics
- Energy economics and demand estimation
- Cybersecurity and IIoT/IoT attack detection

ACADEMIC TITLES AND APPOINTMENTS

Associate Professor Qualification — Türkiye Council of Higher Education, **2024**
Assistant Professor, Computer Information Science — Higher Colleges of Technology, Sharjah, UAE, 2022-present
Assistant Professor, Computer Engineering — Amity University Dubai, Dubai, UAE, 2022
Assistant Professor, Software Engineering Department — Sakarya University, Türkiye, 2018-2022
Research Assistant (Ph.D.), Computer Engineering Department — Sakarya University, Türkiye, 2017-2018
Research Assistant, Computer Engineering Department — Sakarya University, Türkiye, 2012-2017
Software Development & Business Intelligence — Adapazari Natural Gas Distribution Company (Erdgaz), 2011-2012
Quality Assurance Manager — Kromel Machine Company, 2007-2008
Product Planning — Divan Aytas Furniture, 2006-2007

EDUCATION

Ph.D., Computer and Informatics Engineering — Sakarya University, Institute of Science, 2014-2017
Dissertation: Demand Forecasting of Energy Consumption with Statistical and Artificial Intelligence Techniques: Sakarya Natural Gas Consumption Application. Supervisor: Prof. Dr. Nejat Yumusak.
M.Sc., Computer and Informatics Engineering — Sakarya University, Institute of Science, 2012-2014
Thesis: Cycle-Removed Household Natural Gas Consumption Prediction with ARIMA and Multiple Regression. Supervisor: Prof. Dr. Nejat Yumusak.
M.Sc., Mechanical Engineering — Sakarya University, Institute of Science, 2007-2010
Thesis: Estimating Limits of Formability in Square Draw with Finite Element Method. Supervisor: Prof. Dr. Mehmet Firat.
B.Sc., Computer Engineering — Sakarya University, Faculty of Engineering, 2009-2012
B.Sc., Economics — Anadolu University, Faculty of Economics, 2004-2010
B.Sc., Mechanical Engineering — Sakarya University, Faculty of Engineering, 2001-2006

INDUSTRY EXPERIENCE & CONSULTING

Consultant - Factory Warehouse Management — CVM Technology & Kastamonu Integrated Wood Industry, 2020-2021
Consultant - Factory Online Traffic Management — Toyota Motor Manufacturing Turkey Inc., 2020-2021
Consultant/Research Collaborator - Intelligent Factory — Ford Otosan Inc., 2017-2020
Consultant/Research Collaborator - Remote Work and Employee Tracking Solution (SmartRadar) — Izgisoft Company, 2018-2019
Consultant/Research Collaborator - AI-Supported English E-Learning System (Wext) — Smart Education Solutions Inc., 2017-present
Consultant - Software Systems and Educational Solutions — Adapazari Natural Gas Distribution Inc., 2012-2015

RESEARCH GRANTS & PROJECTS

AI-Driven Adaptive Speed Management for Resilient and Cognitive Urban Mobility in Dubai — *Dubai RDI Grant Program, 2026 (Shortlisted - Co-PI)*

Stable and Interpretable Band Selection in FTIR Spectra: Machine Learning-Based Optimization in Polymer Type Identification — *University of Sakarya - Academic Project, 2026 (BAPK ADEP¹, In progress - Researcher)*

City Electricity Load Demand Forecasting for OT — *Rochester Institute of Technology of Dubai – 2026-2027 (In progress - Co-PI)*

Warehouse Control System That Can Automatically Follow Instant Warehouse Movements — *CVM Technology & Kastamonu Integrated Wood Industry, 2020-2021*

Factory Online Traffic Management System Project — *Toyota Motor Manufacturing Turkey Inc., 2020-2021 (Factory Funded)*

Intelligent Factory Project: Demand Forecasts of Line-Based Durations — *Ford Otosan Inc., 2018-2020 (TÜBİTAK² 1511)*

Remote Work and Employee Tracking Project — *Izgisoft Company / RADAR, 2018-2019 (TÜBİTAK 1507)*

Personalized and Artificial Intelligence Supported English E-Learning System — *Smart Education Solutions Inc. / Wext, 2017-2019 (TÜBİTAK 1501)*

Econometric and Statistics Software (EconStat) — *University of Sakarya - Academic Project, 2020-2021 (BAPK KAPDEP³, PI)*

Budget Forecasting — *University of Sakarya - Academic Project, 2021-2022 (BAPK GAP-A⁴, PI)*

TEACHING EXPERIENCE

Teaching portfolio spanning undergraduate, graduate, and professional programs in Computer Information Science, Software Engineering, Computer Engineering, and Medical Informatics. Emphasis areas include programming, systems, algorithms, software engineering, statistics, data analysis, numerical methods, and AI-related topics.

Recent HCT teaching (2022-present)	Software Architecture and Design; Operating Systems; Object-Oriented Analysis & Design; Object-Oriented Analysis & Design (System Course Team Leader); System Architecture and Integration; Fundamentals of Programming; Applied Discrete Mathematics; Computational Thinking and Coding.
Previous university teaching (2017-2022)	MATLAB Programming; Probability and Statistics; Database Management Systems; Probability and Statistics for Engineers; Introduction to Software Engineering; Project Management and Entrepreneurship; Algorithm Analysis and Design; Compiler Design; Formal Languages and Abstract Machines; Introduction to Fuzzy Logic and Neural Networks; Numerical Analysis
Interdisciplinary teaching	Medical Informatics for medical students; applied statistics, forecasting, and software-related modules connected to real industrial datasets and student projects.

STUDENT SUPERVISION

- Master students supervised: 4.
- Undergraduate students supervised/trained: 60+ project students.
<https://mustafaakpinar.com.tr/capstone.html>
<https://www.mustafaakpinar.com.tr/past-graduation-and-design-projects/>

PUBLICATIONS

Publication Summary: 25 published + 3 under review journal articles | 34 published + 3 accepted + 1 under review conference papers | 1 book.
Citation Summary: Web of Science 268 | Scopus 496 | Google Scholar 935.

Journal Articles

28. **Akpinar M.**, "Comparative Metaheuristic Optimization of Seasonal Sigmoid Regression for Daily Electricity Load Forecasting," *Electric Power Systems Research*, (Under Review)
27. Saaed K., Adak M.F., **Akpinar M.**, "AOV-BFV: Adaptive Operation-Aware Verification for BFV Homomorphic Encryption," *IEEE Access* (Under Review)
26. Saaed K., Andersen B., **Akpinar M.**, Adak M.F., "Batched Homomorphic Encryption for Privacy-Preserving Citizen-Record Storage and Search in Cloud-Based E-Government Services," *Results in Engineering* (Under Review)
25. **Akpinar M.**, Durrani U., Malik A., Ovaz Akpinar, K., "Seasonal Electricity Load Forecasting Using Metaheuristic-Optimized Five-Parameter Sigmoid Regression," *Smart Energy*, 24, 100270, 10.1016/j.segy.2026.100270 (SCI-Expanded)
24. **Akpinar M.**, Durrani U., Malik A., Mounsef J., Mostafa A., Abdul-Latif O., AlNaymat G., Dordovic M., Delibasoglu I., "Integrating Problem-Based Learning, Gamification, and the ARCS Motivation Framework: An Integrative Review of Educational Practice," *Encyclopedia*, Accepted (Scopus).
23. **Akpinar M.**, Durrani U., Kareem S., Ovaz Akpinar K., Saleh M., Azzawi R., "Electricity Load Forecasting Using Genetic Algorithm Optimized Sigmoid Regression," *Foresight*, 2026, 10.1108/FS-10-2024-0189 (SCI-Expanded).
22. Ovaz Akpinar K., **Akpinar M.**, Pavlovskaya O., "Attention based neural network for cross domain fake news detection in Turkish language," *Scientific Reports*, 2026, 10.1038/s41598-025-31788-3 (SCI-Expanded).
21. Ozdemir M., **Akpinar M.**, Eski H., "Network Traffic Factors Detection and Prediction Using Artificial Neural Networks," *Sakarya University Journal of Science*, 8(4), 688-700, 2025, 10.35377/saucis...1698023 (Scopus).

¹ BAPK ADEP: Scientific Research Projects Unit of Sakarya University (BAPK), Research Universities Support Program

² TUBİTAK: The Scientific and Technological Research Council of Turkey

³ BAPK KAPDEP: Scientific Research Projects Unit of Sakarya University (BAPK), Comprehensive Scientific Support Projects (KAPDEP)

⁴ GAP-A: General Research Projects – A

20. Durrani U., **Akpinar M.**, Bektas H., Saleh M., "Impact of Artificial Intelligence on Software Engineering Phases and Activities (2013-2024): A Quantitative Analysis Using Zero-Truncated Poisson Model," IEEE Access, 13, 95535-95547, 2025, 10.1109/ACCESS.2025.3574462 (SCI Expanded).
19. Durrani U., **Akpinar M.**, Adak M.F., Kabakus A.T., Ozturk M.M., Saleh M., "A Decade of Progress: A Systematic Literature Review on the Integration of AI in Software Engineering Phases and Activities (2013-2023)," IEEE Access, 12, 171185-171204, 2024, 10.1109/ACCESS.2024.3488904 (SCI Expanded).
18. Arslan K., **Akpinar M.**, Adak M.F., "The detection of unaccounted natural gas consumption: A neural networks and subscriber-based solution," Engineering Science and Technology, an International Journal, 52, 101669, 2024, 10.1016/j.jestch.2024.101669 (SCI-Expanded).
17. Adak M.F., **Akpinar M.**, Yildiz E., Koroglu M., Karabay O., "Prediction of Mortality in Inpatients of Covid-19 using Statistical and Artificial Intelligence Approaches: A Case Study in Sakarya," IEEE Access, 12, 134809-134821, 2024, 10.1109/ACCESS.2024.3366490 (SCI-Expanded).
16. Gunal O., **Akpinar M.**, "Solving the laminar boundary layer problem in heat transfer with heuristic optimization techniques," Heliyon, 9(6), E16955, 2023, 10.1016/j.heliyon.2023.e16955 (SCI-Expanded).
15. Gunal O., **Akpinar M.**, Ovaz Akpinar K., "Optimization of Laminar Boundary Layers in Flow over a Flat Plate Using Recent Metaheuristic Algorithms," Energies, 15(14), 5069, 2022 (SCI-Expanded).
14. **Akpinar M.**, "Line-based process duration prediction using the vehicles features for the automotive industry," Journal of the Faculty of Engineering and Architecture of Gazi University, 37(4), 2259-2278, 2022 (SCI-Expanded).
13. Zhang S., Lagutkina M., Ovaz Akpinar K., **Akpinar M.**, "Improving performance and data transmission security in VANETs," Computer Communications, 180, 126-133, 2022, 10.1016/j.comcom.2021.09.005 (SCI-Expanded).
12. **Akpinar M.**, Adak M.F., Guvenc G., "SVM-Based Anomaly Detection in Remote Working: Intelligent Software SmartRadar," Applied Soft Computing, 109, 107457, 2021, 10.1016/j.asoc.2021.107457 (SCI-Expanded).
11. Ulutas E., Cengiz H., Yazicioglu M.C., **Akpinar M.**, "Personalized Advertisement Using Deep Learning Based Object Detection Algorithms," Journal of Balikesir University Institute of Science and Technology, 24(1), 2022 (Other Index).
10. **Akpinar M.**, Yumusak N., "Daily Basis Mid-Term Demand Forecast of City Natural Gas Using Univariate Statistical Techniques," Journal of the Faculty of Engineering and Architecture of Gazi University, 35(2), 725-741, 2020, 10.17341/gazimmfd.494094 (SCI-Expanded).
9. Adak M.F., **Akpinar M.**, Uzunyolcu A., "Analysis of English Level in Turkey with Adaptive Online English Proficiency Exam," Academic Platform Journal of Engineering and Science, 8(3), 585-595, 2020, 10.21541/apjes.701250.
8. **Akpinar M.**, "Application of Genetic Algorithm for Optimization of Heat-Transfer Parameters," Sakarya University Journal of Science, 23(6), 1123-1130, 2019, 10.16984/saufenbilder.500643 (Other Index).
7. Ozger Y.E., **Akpinar M.**, Musayev Z., Yaz M., "Electrical Load Forecasting Using Genetic Algorithm Based Holt-Winters Exponential Smoothing Method," Sakarya University Journal of Computer and Information Sciences, 2(2), 108-123, 2019, 10.35377/saucis.02.02.600620 (Other Index).
6. Adak M.F., **Akpinar M.**, Yumusak N., "Determination of the Gas Density in Binary Gas Mixtures Using Multivariate Data Analysis," IEEE Sensors Journal, 17(11), 3288-3297, 2017, 10.1109/JSEN.2017.2694464 (SCI-Expanded).
5. **Akpinar M.**, Adak M.F., Yumusak N., "Day-Ahead Natural Gas Demand Forecasting Using Optimized ABC-Based Neural Network with Sliding Window Technique: The Case Study of Regional Basis in Turkey," Energies, 10(6), 781, 2017, 10.3390/en10060781 (SCI-Expanded).
4. **Akpinar M.**, Yumusak N., "Naive Forecasting of Household Natural Gas Consumption with Sliding Window Approach," Turkish Journal of Electrical Engineering Computer Sciences, 25(1), 30-45, 2017, 10.3906/elk-1404-378 (SCI-Expanded).
3. **Akpinar M.**, Yumusak N., "Year Ahead Demand Forecast of City Natural Gas Using Seasonal Time Series Methods," Energies, 9(9), 727, 2016, 10.3390/en9090727 (SCI-Expanded).
2. **Akpinar M.**, Yumusak N., "Time Series Decomposition of Natural Gas Consumption," International Journal of Advances in Science, Engineering and Technology, 4(2), 113-117, 2016 (Other Index).
1. Yilmaz R., **Akpinar M.**, "A Simulation Modelling of the Relationship Between Profit and Cost Capacity Pricing Under Market Conditions," Journal of Politics, Economics and Management, 4(2), 131-148, 2016 (Other Index).

Conference Papers

38. Akpinar M., "Dual-Weight Neural Networks: Is It Better Than Single-Weight?," 2026 3rd International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2026), Dubai, UAE (Under Review)
37. Akpinar M., Durrani U., Malik A., Ovaz Akpinar K., Hosam O., Adak M. F., "Uncertainty-Aware Used-Vehicle Asking-Price Estimation from Web Marketplace Listings Using Tree-Based Learning," 11th International Conference on Information Technology Trends (ITT2026), Dubai, UAE (Accepted)
36. Akpinar M., Durrani U., Malik A., "Gamified Problem-Based Formative Assessment in the Age of Generative AI: Empirical Study Using ARCS," 19th International Conference on the Quality of Information and Communications Technology (CAISAI2026), Ajman, UAE (Accepted).
35. Durrani U., Akpinar M., Al-Naymat G., "When AI Can Pass the Exam: Generative AI, the Obsolescence of Summative Assessment, and the Case for Gamified Problem-Based Formative Classroom Assessment," IEEE International Conference on Responsible Artificial Intelligence, Melbourne, Australia (Accepted).
34. Malik A., Akpinar M., Salami A., "AI improved Response Surface Methodology Workflow for Laser-Welding Optimization with Confidence-Based Routing," 2025 10th International Conference on Information Technology Trends (ITT2025), 194-199, Dubai, UAE, 10.1109/ITT69610.2025.11352909.
33. Durrani U., Akpinar M., Malik A., "AI Augmented Software Engineering - A Case of Competency-Based Education and its Institutional Effectiveness," 2025 10th International Conference on Information Technology Trends (ITT2025), 224-228, Dubai, UAE, 10.1109/ITT69610.2025.11352914.
32. Hosam O., Fares E., Ghorbel A., Dandash O., Akpinar M., Durrani U., "Three-Stage Passwordless MFA for Smart Contract Wallets on Permissioned Blockchains," 2025 10th International Conference on Information Technology Trends (ITT2025), 247-252, Dubai, UAE, 10.1109/ITT69610.2025.11352900.
31. Durrani U., Malik A., Akpinar M., "Orchestrating Intelligence: Towards A Framework for AI-Augmented Software Engineering Education," 2025 2nd International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2025), Dubai, UAE, 10.1109/ICAMAC67779.2025.11398741.
30. Malik A., Adnan M., Akpinar M., "Applications of Home Digital Twins in the Metaverse: Energy, Safety, Healthcare, and Personalized Living," 2025 2nd International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2025), Dubai, UAE, 10.1109/ICAMAC67779.2025.11398455.
29. Akpinar M., Durrani U., Ovaz Akpinar K., Saleh M., "Subway Ridership Forecasting Using Seasonal and Holt-Winters Models with Calendar Effects," 2025 International Conference on Computer, Information and Telecommunication Systems (CITS2025), Colmar, France, 10.1109/CITS65975.2025.11099483.
28. Saleh M., Al-Aqrabi H., Aoudi S., Zubaydi F., Durrani U., Akpinar M., "EcoSphere - A Nature-Inspired Approach to Smart Agriculture in Desert Regions," 9th International Symposium on Innovative Approaches in Smart Technologies (ISAS2025), Gaziantep, Türkiye, 10.1109/ISAS66241.2025.11101913.
27. Durrani U., Akpinar M., Togher M., Malik A., Dordovic M., Aoudi S., "Assessing the Effectiveness of Large Language Models in Predicting Student Dropout Rates," 2024 International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2024), Dubai, UAE, 10.1109/ICAMAC62387.2024.10829011.

26. Durrani U., Akpinar M., Togher M., Malik A., Dordovic M., Aoudi S., "Harnessing AI for Personalized Academic Major Recommendations An Application of Large Language Models in Education," 2024 International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC), Dubai, UAE, 10.1109/ICAMAC62387.2024.10829011.
25. Saleh M., Aoudi S., Azzawi R., Durrani U., Akpinar M., Minhas W., Skaf Z., Abdulmouti H., "An Analysis of Cybersecurity Mandates in the Context of Digital Reliance within Hybrid IT Models," 2024 IEEE Annual Congress on Artificial Intelligence of Things (AIoT), Melbourne, Australia, 10.1109/AIoT63253.2024.00041.
24. Adak M.F., Kose Z.N., Akpinar M., "Dynamic Data Masking by Two-Step Encryption," 2023 Innovations in Intelligent Systems and Applications Conference, Sivas, Türkiye, 10.1109/ASYU58738.2023.10296545.
23. Azeez M., Akpinar M., Ayar K., "A Hybrid Prediction Approach Using Multiple Linear Regression and Decision Trees," 2023 9th International Conference on Information Technology Trends (ITT), Dubai, UAE, 10.1109/ITT59889.2023.10184242.
22. Akpinar M., Adak M.F., "Prediction of Steel Plate Fault Classification Using CART Fuzzy Logic and ANFIS Models," 2023 9th International Conference on Information Technology Trends (ITT), Dubai, UAE, 10.1109/ITT59889.2023.10184259.
21. Alia A., Ayesha R., Ovaz Akpinar K., Akpinar M., "Binary and Multi-Class Classification on the IoT-23 Dataset," 2023 Advances in Science and Engineering Technology International Conferences (ASET), Dubai, UAE, 10.1109/ASET56582.2023.10180848.
20. Gunal O., Akpinar M., Ovaz Akpinar K., "Performance Evaluation of Metaheuristic Optimization Techniques in Insulation Problem," 2022 8th International Conference on Information Technology Trends (ITT), Dubai, UAE, 10.1109/ITT59889.2023.10184242.
19. Gunal O., Akpinar M., Ovaz Akpinar K., "Determination of Insulation Parameters with Optimization Algorithms," 2022 International Conference on Decision Aid Sciences and Applications (DASA), Chiang Rai, Thailand, 10.1109/DASA54658.2022.9765281.
18. Akpinar M., Akpinar K.O., "Internal Department Budget Forecasting of a Company: Benchmark of Artificial Neural Networks," 2022 Advances in Science and Engineering Technology International Conferences (ASET), Dubai, UAE, 10.1109/ASET53988.2022.9734852.
17. Kareem S., Akpinar M., "Removing Seasonal Effect on City Based Daily Electricity Load Forecasting with Linear Regression," 2021 International Symposium on Networks, Computers and Communications, Dubai, UAE, 10.1109/ISNCC52172.2021.9615873.
16. Akpinar M., Akpinar K.O., Aktas E., Senocak O.F., Donmez H., Cavdar V., Sarioglu O.S., "Duration Estimation of Vehicle Based Production: Case Study of Assembly Line," 2020 International Conference on Data Analytics for Business and Industry: Way Towards a Sustainable Economy (ICDABI), Sakheer, Bahrain, 10.1109/ICDABI51230.2020.9325618.
15. Ipek B., Akpinar M., "Application of Deep Learning Based Object Detection on Unmanned Aerial Vehicle," 2020 5th International Conference on Computer Science and Engineering (UBMK), Diyarbakir, Türkiye, 10.1109/UBMK50275.2020.9219462.
14. Adak M.F., Akpinar M., "A Hybrid Artificial Bee Colony Algorithm using Multiple Linear Regression on Time Series Datasets," IEEE 3rd International Conference on Smart and Sustainable Technologies (SpliTech), Split, Croatia, 2018 (PoD ISBN 978-1-5386-6296-0).
13. Akpinar M., Adak M.F., Yumusak N., "Time Series Forecasting Using Artificial Bee Colony Based Neural Networks," IEEE 2nd International Conference on Computer Science and Engineering, Antalya, Türkiye, 2017, 10.1109/UBMK.2017.8093461.
12. Akpinar M., Yumusak N., "Day-ahead natural gas forecasting using nonseasonal exponential smoothing methods," IEEE International Conference on Environment and Electrical Engineering and 2017 IEEE Industrial and Commercial Power Systems, Milano, Italy, 10.1109/EEEIC.2017.7977756.
11. Ovaz Akpinar K., Akpinar M., Ozcelik I., Yumusak N., "Carrier Grade NAT - Is It Really Secure For Customers? A Test on a Turkish Service Provider," IEEE 10th International Conference on Application of Information and Communication Technologies, Baku, Azerbaijan, 2016, 10.1109/ICAICT.2016.7991693.
10. Akpinar M., Adak M.F., Yumusak N., "Forecasting Natural Gas Consumption With Hybrid Neural Networks Artificial Bee Colony," IEEE 2nd International Conference on Intelligent Energy and Power Systems, Kyiv, Ukraine, 2016, 10.1109/IEPS.2016.7521852.
9. Akpinar M., Yumusak N., "Time Series Decomposition Of Natural Gas Consumption," International Conferences on Engineering and Natural Science, Dubai, UAE, 2015 (Excellent Paper Award - selected for journal publication).
8. Akpinar M., Yumusak N., "Wholesale Company Based Short Term Natural Gas Consumption Demand Forecasting," The Third International Istanbul Smart Grid and Cities Congress, Istanbul, Türkiye, 2015.
7. Akpinar M., Yumusak N., "Forecasting One Day Ahead Household Natural Gas Consumption With Differently Sized Moving Datasets Using Multiple Linear Regression," 20th Conference of the International Federation of Operational Research Societies, Barcelona, Spain, 2014.
6. Akpinar M., Yumusak N., "Estimating household natural gas consumption with multiple regression Effect of cycle," IEEE International Conference on Electronics, Computer and Computation, Ankara, Türkiye, 2013, 10.1109/ICECCO.2013.6718260.
5. Akpinar M., Yumusak N., "Forecasting household natural gas consumption with ARIMA model A case study of removing cycle," IEEE 7th International Conference on Application of Information and Communication Technologies, Baku, Azerbaijan, 2013, 10.1109/ICAICT.2013.6722753.
4. Kazan S., Akpinar M., Gulbag A., Yolcu G., "Comparison of Machine Learning Methods on Estimation of Time with Climate Data," International Science and Technology Conference, 608-613, Dubai, UAE, 2012.
3. Ates I., Akpinar M., Eken B., Yumusak N., "A Fast Method For Accessing Nodes In The Binary Search Trees," International Science and Technology Conference, 32-37, Dubai, UAE, 2012 (Selected for publication to The Online Journal of Science and Technology).
2. Akpinar M., Esener E., Firat M., "An Experimental Assessment of Stamping Formability of a Dual Phase Steel in Cup Drawing: A Case Study on Numerical Process Optimization," International Iron and Steel Symposium (IISS'12), Karabuk, Türkiye, 2012.
1. Akpinar M., Esener E., Firat M., "FE Drawbead Modeling in Panel Drawing Processes Experiments and Process Optimization," International Iron and Steel Symposium (IISS'12), Karabuk, Türkiye, 2012.

Book

Akpinar M., Adak M.F., "Visual Programming: For Beginners and Vocational School Students," Nobel Press, Istanbul, Türkiye, 2021.

EDITORIAL, REVIEWING & CONFERENCE SERVICE

Editor — *Sakarya University Journal of Science, 2019-present (Scopus Indexed)*

Editor — *Sakarya University Journal of Computer and Information Sciences, 2018-present (Scopus Indexed)*

Reviewer Activity

Selected journals reviewed for: Systems and Soft Computing (2025 #1); Foresight (2026 #1, 2024 #1); Applied Soft Computing (2021 #1, 2020 #2); Knowledge-Based Systems (2021 #1); Energy Sources, Part B: Economics, Planning, and Policy (2021 #2, 2018 #1); Journal of Cleaner Production (2021 #1, 2018 #1); Journal of the Faculty of Engineering and Architecture of Gazi University (2021 #1); Applied Energy (2020 #1, 2018 #1, 2017 #3); Mathematical Problems in Engineering (2020 #1); Energy (2018 #1, 2017 #1); Frontiers in Energy (2019 #1); Turkish Journal of Electrical Engineering & Computer Sciences (2017 #2, 2016 #1); Cleaner and Responsible Consumption (2021 #2); Advances in Systems Science and Applications (2019 #1, 2018 #1); Asian Research Journal of Mathematics (2016 #1); British

Conference Support

- Chair, 3rd International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2026), 18-19 December 2026, Dubai, UAE.
- Chair, 2nd International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2025), 17-18 October 2025, Dubai, UAE.
- Chair, International Conference on Artificial Intelligence, Metaverse, and Cybersecurity (ICAMAC2024), 25-26 October 2024, Dubai, UAE.
- Reviewer, 2026 11th International Conference on Information Technology Trends (ITT), 28-29 Oct 2026, Dubai, UAE.
- Reviewer, 2025 10th International Conference on Information Technology Trends (ITT), 6-7 Nov 2025, Dubai, UAE.
- Reviewer, 2024 5th International Symposium on Intelligent Computing Systems (ISICS 2024), 6-7 November 2024, Dubai, UAE.
- Reviewer, 2023 9th International Conference on Information Technology Trends (ITT), 24-25 May 2023, Dubai, UAE.
- Reviewer, 2022 International Conference on Time Series and Forecasting (ITISE 2022), 27-30 June 2022, Gran Canaria, Spain.
- Reviewer, 2022 International Conference on Decision Aid Sciences and Applications (DASA 2022), 23-25 March 2022, Chiang Rai, Thailand.
- Reviewer, 2020 International Conference on Decision Aid Sciences and Applications (DASA 2020), 8-9 November 2020, Sakheer, Bahrain.
- Reviewer, 2020 International Conference on Data Analytics for Business and Industry (ICDABI 2020), 26-27 October 2020, Sakheer, Bahrain.

PROFESSIONAL MEMBERSHIPS

- IEEE UAE Education Society - Secretary, 2026-present.
 - IEEE Computer Society, 2025-present.
 - TMMOB ⁵Chamber of Computer Engineers, Member, 2012-present.
- IEEE UAE Education Society - Secretary, 2024-2025.
 - IEEE Senior Member, 2016-present.

SELECTED TRAINING & COURSES

- Red Hat Academy (2026): **System Administration I (RH124 - RHA) - Ver. 10** (35 hrs).
- Cisco Academy (2026): **CCNA v7** (30 hrs).
- Digital Education Council (2026): **AI for Higher Education** (20 hrs).
- MBZUAI (2026): **Generative & Agentic AI Foundations Program** (40 hrs).
- SAS ⁶Turkey (2011): **Forecasting Using SAS Forecast Server Software** (16 hrs); **SAS Enterprise Guide 1: Querying and Reporting** (16 hrs); **SAS Programming 1: Essentials** (24 hrs).
- Nigde University (2009): **Advanced Mechanical Behaviour of Materials**, Prof. Catalin R. Picu, Rensselaer Polytechnic Institute (16 hrs).
- UGETAM ⁷(2010): **Natural Gas Authorized Installation Engineer Training** (24 hrs).
- Des Consulting Training Seminar: **Innovation** (2012, 16 hrs); **Problem Solving Techniques** (2011, 16 hrs); **Leadership and Emotional Intelligence** (2011, 16 hrs).
- Türk Loydu Foundation (2011): **Occupational Health and Safety** (8 hrs).
- **Courses Taught to Companies:** Microsoft Excel Training for Adapazari Natural Gas Distribution Inc. (2013): **Basic** (16 hrs), **Advanced** (16 hrs), **Macros** (16 hrs).

RESEARCH PROFILES

Google Scholar	ResearchGate
Scopus	Web of Science Researcher ID
Publons / Web of Science Profile	Past Graduation and Design Projects

⁵ TMMOB: The Union of Chambers of Turkish Engineers and Architects
⁶ The Statistical Analysis System Software (SAS Institute)
⁷ UGETAM: Applied Gas and Energy Technologies Research Engineering Industry Trade Inc.