

Prof. Dr. Dilber UZUN OZSAHIN

Professor of Medical Diagnostic Imaging

College of Health Sciences, Department of Medical Diagnostic Imaging, University of Sharjah, UAE & Irfan Suat Günsel Operational Research Institute, Near East University, Nicosia/TRNC, Turkey

Phone: [REDACTED] | E-mail: [REDACTED] dilber.uzunozsahin@neu.edu.tr

Scopus ID: [35222353000](#) | Google scholar [h-index: 136](#)

EDUCATION

Ph.D. with Honors in Physics

2010 – 2014

Universitat Autònoma de Barcelona, Barcelona, Spain

Thesis Title: "Modeling, simulation, and evaluation of a high resolution VIP positron emission mammography scanner based on pixelated semiconductor detector"

M.Sc. in Natural and Applied Sciences (High Energy Physics)

2006 – 2010

Çukurova University, Faculty of Science and Letters, Physics Department, Adana, Turkey

Thesis Title: "CMS-CASTOR Forward Detector 2008 Test Beam Data Analysis and 2008-2009 RADDAM Data Analysis"

B.Sc. in Physics

2002 – 2006

Çukurova University, Faculty of Science and Letters, Physics Department, Adana, Turkey

ACADEMIC APPOINTMENTS

Prof. Dr.

Jan 2026 – Present

College of Health Sciences, Department of Medical Diagnostic Imaging, University of Sharjah, UAE

Advisor to the Rector

2023 – Present

Near East University, Nicosia/TRNC, Turkey

Research Group Coordinator

2022 – Present

University of Sharjah, UAE

Director

2020 – Present

Irfan Suat Günsel Operational Research Institute, Near East University, Nicosia/TRNC, Turkey

Associate Professor Dr.

2018 – 2021

Near East University, Faculty of Engineering, Department of Biomedical Engineering, Nicosia/TRNC, Turkey

Visiting Professor Dr.

Jun 2017 – Sep 2017

Gordon Center for Medical Imaging, NMMI Radiology Department, Massachusetts General Hospital & Harvard Medical School

Assistant Professor Dr.

2016 – 2018

Near East University, Faculty of Engineering, Department of Biomedical Engineering, Nicosia/TRNC, Turkey

Postdoctoral Research Fellow

2015 – 2016

Gordon Center for Medical Imaging, NMMI Radiology Department, Massachusetts General Hospital & Harvard Medical School

TEACHING EXPERIENCE

University of Sharjah

- Introduction to Research: Fall 2021, 2022, 2023, 2024, 2025, 2026
- Research Project: Spring 2021, 2022, 2023, 2024, 2025, 2026
- Introduction to Research: Fall, Spring 2021, 2022, 2023, 2024, 2025, 2026
- AI in Radiology: Fall 2022, 2023, 2024, 2025, 2026
- Seminar and Research: Fall 2024, 2025, 2026

Near East University

- Modeling of biological systems, Near East University (Summer-Spring-Fall 2016-2017)
- Physics in Nuclear Medicine, Near East University (Fall 2016)
- Simulation of nuclear medicine imaging devices, Near East University (Fall 2016-2017) (Postgraduate),
- Electromagnetic Theories, Near East University (Fall-Spring 2016-2017)
- Designing biomedical imaging systems, Near East University (Spring 2016-2017) (Postgraduate)
- Radiology physics, Near East University (Spring-Fall 2016-2017)
- Fuzzy Applications to Radiology (Fall-2017-2018) (Postgraduate)
- Statistical Multi Criteria Evaluation for Medical Imaging, Near East University (Fall-Spring 2017-2018) (Postgraduate)
- Decision Making Theories for Biomedical Engineering, Near East University (Fall-Spring 2017-2018) (Postgraduate)
- Graduation Project I, II Near East University (Fall 2017-2018)
- Graduation Project I, II , Near East University (Spring 2017-2018)
- Graduation Project I,II Near East University (Fall 2018-2019)
- Applications od Decision Theories in Healthcare (Fall 2018-2019) (Postgraduate)
- Multi Criteria Decision Making Theories for Engineers (Fall 2019-2019) (Postgraduate)
- Graduation Project I, II , Near East University (Spring 2018-2019)
- Applications od Decision Theories in Healthcare (Spring 2018-2019) (Postgraduate)
- Multi Criteria Decision Making Theories for Engineers (Spring 2018-2019) (Postgraduate)
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- Multi Criteria Decision Making Theories for Engineers (Spring 2019-2020) (Postgraduate)
- Graduation Project I, II , Near East University (Fall 2020-2021)
- Applications od Decision Theories in Healthcare (Fall 2020-2021) (Postgraduate)
- Multi Criteria Decision Making Theories for Engineers (Fall 2020-2021) (Postgraduate)

EDITORIAL BOARDS

- Guest Editor: MDPI, Diagnostics, Intelligent Imaging in Nuclear Medicine
- Guest Editor: Journal of Healthcare Engineering, Fuzzy-Based Multi-Criteria Decision-Making Methods in Healthcare
- Section Editor: Fuzzy Based Multi Criteria Decision Analysis for Engineering, Bentham Science
- Book Editor, Springer, Professional Practice in Earth Sciences, Application of Multi-Criteria Decision Analysis in Environmental and Civil Engineering

- Book Editor, Elsevier, Modern Practical Healthcare Issues in Biomedical Instrumentation
- Book Editor, Bentham books, Applied Machine Learning and Multi-Criteria Decision-making in Healthcare
- Book Editor, IET, Institution of Engineering and Technology, Practical Applications Of Biomedical Instrumentation Using Artificial Intelligence

PUBLISHED BOOKS

- Advances in Medical Imaging: From Behavioral Analysis to Disease Prevention and Rehabilitation, Elsevier (2026)
- Applications of Multi-Criteria Decision-Making Theories in Healthcare and Biomedical Engineering, Elsevier (2021)
- Artificial Intelligence and Image Processing in Medical Imaging, Elsevier (2024)
- Decision Analysis Applied to the Field of Environmental Health, Springer (2022)
- Practical Design and Applications of Medical Devices, Elsevier (2023)
- Application of Multi-Criteria Decision Analysis in Environmental and Civil Engineering, Springer (2021)
- Modern Practical Healthcare Issues in Biomedical Instrumentation, Elsevier (2021)

AWARDS & GRANTS

- **UOS Annual Faculty Incentive Award**, (Academic Year 2024/25)
- **Stanford University's Top 2% Listed Scientists**, 2023, 2024, 2025
- **Creation of a Low-Dose Computed Tomography Dataset for Automated Lung Cancer Screening and Development of a Decision Support System with Attention-Based Multitasking Deep Learning**, 2025–2027, Co–Principal Investigator, Yildiz Technique University, Turkey
- **GAP-AD: Early Alzheimer's Detection Using Graphene-Based Biosensors, Deep Learning and Metaverse for Non-Invasive Diagnostics**, 2025–2027, Co–Principal Investigator, Dubai Future Foundation – Dubai Research, Development and Innovation Grant Program, 1,500,000 AED
- **SYNERGY-PD: Systematic α -synuclein Evaluation in Neuronal Extracellular Vesicles for Early Parkinson's Detection Using Agentic AI and Digital Twin Technologies**, UOS, 2025–2028, 100k AED, Co–Principal Investigator
- **Operational Research and Integrated Artificial Intelligence in Healthcare**, 100k AED (PI), Research Group Grant, UOS, 2023–Present
- **Application of deep convolutional neural network in CBCT imaging for detection of condylar morphological abnormalities**, 100k AED (PI), UOS, 2025–Present
- **Developing of a Low-Dose Computed Tomography Dataset for Automated Lung Cancer Screening and Development of a Decision Support System with Attention-Based Multitasking Deep Learning**, 100k AED (PI), UOS, 2025–Present
- **The design and implementation of an AI Inspired MCDM Tool for the Prediction of Invasive Ductal Carcinoma**, 100k AED (PI), UOS, 2023–2024
- **A Smart Non-invasive Assessment, Monitoring and Prediction Technology for Asthma Attacks**, (Group Member), Competitive Grant, UOS, 2023–Present
- **Smart Sustainable Cities (S2C)**, (Group Member), Research Group Grant, UOS, 2024–Present
- **Machine learning methods to analyze biocide and antifungal susceptibility of Candida auris**, Gazi University, Turkey, (Group Member), 2022–2023
- **European Biotechnology Congress, Best Oral Presentation Award (1st Place)**, Ranking of diagnostic SARS-COV-2 IgG antibody tests by using multi-criteria decision-making theory, 2021
- **Recipient of the International Postdoctoral Research Scholarship** from The Scientific and Technological Research Council of Turkey (TUBITAK) for Harvard Medical School and Massachusetts General Hospital, Jun 2015 – Jun 2016

- **Employment from the ERC grant for PhD study** at IFAC, UAB, Barcelona, Spain, May 2011 – June 2014
- **Turkish Atomic Energy Authority (TAEK) Research Scholarship** for CERN, Aug 2008 – Dec 2009

SUPERVISED M.Sc. THESES (33)

- Deep Parkinson's disease diagnosis using stacked autoencoder (Esam Alshareef), 2018
- White blood cells identification using transfer learning GoogLeNet (Anas Habash), 2018
- Promethee analysis of retinoblastoma treatment techniques (Mordecai Maisaini), 2018
- Classification of segmented chest X ray images using neural network (Sepideh Rostami), 2018
- Simulation and evaluation of a cost effective high performance brain PET scanner (Musa Sani Musa), 2018
- Simulation and evaluation of low stages of brain cancer treatment techniques (Ali Jaber), 2019
- Evaluation of migraine drugs using multi criteria decision method (Lafi Hamidat), 2019
- A critical evaluation of cancer care in Nigeria comparative analysis to other countries and customization of standard cancer care system for Nigeria (Nuhu Abdulhaq Isa), 2019
- Assessing the effectiveness of point of care devices and automated chemistry analyzers in the management of diabetes mellitus (Mubarak Taiwa), 2019
- Promethee analysis of cervical disc devices (Rukayat Salawu), 2019
- Simulation and evaluation of the impact of AUNPs in targeting apoptotic necrotic process on several types of cancer cell (Safa Anmar Ameen), 2019
- Promethee analysis of breast cancer imaging devices (Hasan Erdoglu), 2019
- Simulation and evaluation of optical transparent ceramic scintillators based high performance brain PET scanner (Samuel T Abebe), 2019
- Analysis of artificial limbs synthetic materials using fuzzy logic technology (Ahmad A N Dalloul), 2020
- Evaluation of hepatitis C direct acting antiviral treatments using fuzzy Promethee (Funsho David Alim), 2020
- Hemorrhoids treatment techniques analysis using fuzzy logic technology (Abdulaziz Tabbakha), 2020
- Evaluating the different treatment methods for osteoporosis using the fuzzy Promethee (Sharmain Dube), 2021
- Asthma and its medical devices (Sabareela Victory Moro), 2021
- Comparative analysis and the application of non contact temperature reading devices in the control of COVID 19 using fuzzy Promethee (Basil Barth Duwa), 2021
- Evaluating treatment alternatives for varicose veins in the leg (Mohammed Abudaqqa), 2021
- The role of artificial intelligence in the prediction of lung cancer (Natacha Usanase), 2022
- Evaluation of the nonpharmacologic methods of controlling pain during childbirth using analytical evaluation models (Efe Precious Onakpojeruo), 2022
- Evaluation of carcinoid tumor treatment options using multi criteria decision making MCDM (Declan Ikechukwu Emegano), 2022
- Dental filling materials and their evaluation using fuzzy Promethee method and clarifying the risk factors of amalgam (Amar Saad Zinelabdin Mohamed), 2023
- Evaluation of biomaterials used in orthopedic implants (Esther Chifurumnanya Anyanwu), 2023
- Mathematical assessment of renal cell carcinoma treatment techniques (Alhamza Abdul Satar Shaker), 2024
- Biomaterials and their biomedical applications for enhancing skin chronic wound healing (Diane Mujawaezu), 2024
- Classification of arrhythmia from electrocardiogram signals using a deep neural network (Amer Abdullah Mohammed Al Luhaib), 2024
- Multi criteria decision analysis in lymphoma diagnosis (Ali Tawfeeq Lateef Hammoodi), 2024
- Nanotechnology based drug delivery system in breast cancer therapy (Eyad Majed Alashqar), 2024
- Evaluating the reliability of corneal devices using multi criteria decision making techniques (Sajjad Akram Jasim Al Saedi), 2025

- Lung cancer detection from lung CT scan images using transfer learning methods for improved diagnostic precision and early intervention (Ghadeer Imad Kadhim Jleeha), 2025
- Knee osteoporosis detection in X ray images using deep spatial feature extraction and machine learning classifiers (Wesam Ali Hidar), 2025

SUPERVISED Ph.D. THESES (10)

- **Ali Isin (2018):** Motion correction strategies in PET MRI scanners and development of a deep learning-based computer-aided detection system
- **Musa Sani Musa (2021):** Simulation and evaluation of a cost-effective high-performance positron emission mammography (PEM) scanner
- **Jemal Edris (2022):** CT dose reduction proposed to establish diagnostic reference levels in Addis Ababa, Ethiopia
- **Mubarak Taiwo Mustapha (2022):** The application of machine learning to medical disease diagnosis
- **Basil Barth Duwa (2023):** Machine learning approaches for predicting malaria and monkeypox diseases
- **Nuhu Abdulhaqq Isa (2024):** Quantifying holistic capacity response and healthcare resilience in tackling COVID-19: Assessment of country capacity by MCDM
- **Hasan Erdogan (2025):** Improving the medical approach to cardiovascular diseases through the application of multi-criteria decision theory
- **Cemre Ozgocmen (2025):** MCDM in healthcare inotropes and heart failure
- **Natacha Usanase (2025):** An integrated multimodal AI framework for early detection and therapeutic decision making of pancreatic cancer
- **Declan Ikechukwu Emegani (2025):** The integration of the PSA dataset histology images and clinical data in multimodal fusion for prostate cancer prediction
- **Lafi Hadidat (2026):** An In Silico Mcdm Comprehensive Compilation Of Advanced Fuzzy Optimization Techniques In Medical Biomaterials And Bioengineering Reconstruction

KEY ACADEMIC REFERENCES

- **Prof. Georges El Fakhri,** Elizabeth Mears and House Jameson Professor of Radiology and Biomedical Imaging, Therapeutic Radiology and of Biomedical Informatics & Data Science & Director, PET Center; Vice Chair Scientific Research, Radiology & Biomedical Imaging, Yale School of Medicine (██████████) — Yale School of Medicine | ██████████
- **Prof. Yasar Onel** (██████████) — University of Iowa, USA | ██████████
- **Prof. Hamid Sabet** (██████████) — Gordon Center, MGH & Harvard Medical School | ██████████
- **Prof. Isa Dumanoglu** (██████████) — Çukurova University, Turkey | ██████████
- **Prof. Kerem Cankocak** (██████████) — Istanbul Technical University, Turkey | ██████████

SELECTED PUBLICATIONS

1. GBD 2023 Human Resources for Health Collaborators. Measuring the composition and availability of human resources for health by sex in 204 countries and territories, 1990–2023, and workforce gaps for universal health coverage: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet Public Health*. 18 August 2026. doi: 10.1016/S██████████(26)00145-3
2. Awosusi, A. A., Rjoub, H., & Ozsahin, D. U. (2026). Towards green growth: biomass energy, solar energy, and globalization as pillars of sustainable development in India. *Environment, Development and Sustainability*, 1-27.

3. Jin, X., Eweade, B. S., Ozsahin, D. U., & Uzun, B. (2026). Do energy policy uncertainty, trade openness, and renewable energy drive artificial intelligence investment? Evidence from the United States. *Humanities and Social Sciences Communications*.
4. Adebayo, T. S., Razi, U., Staniewski, M. W., Olanrewaju, V. O., Eweade, B. S., & Ozsahin, D. U. (2026). Unpacking the environmental consequences of energy patents: a quantile-based Kernel regression perspective. *Clean Technologies and Environmental Policy*, 28(4), 112.
5. GBD 2023 Maternal Mortality Collaborators. Global, regional, and national levels and trends in maternal mortality, progress towards the Sustainable Development Goals, and mortality from COVID-19 infection in pregnant women, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet Obstetrics, Gynaecology, & Women's Health*. 26 March 2026. doi: [https://doi.org/10.1016/S3050-5038\(26\)00047-6](https://doi.org/10.1016/S3050-5038(26)00047-6)
6. Hamidat, L., Ozsahin, D. U., & Uzun, B. (2026). A Fuzzy-PROMETHEE Framework for the Multi-Criteria Selection of Dental Implant Biomaterials: A Comparative Analysis of 22 Candidates.
7. Lavanya, M., Vadivoo, B. S., Ahmad, H., Ozsahin, D. U., & Radwan, T. (2026). Langevin neutral impulsive fractional stochastic system along fractional Brownian motion-A controllability analysis. *Journal of Low Frequency Noise, Vibration and Active Control*, 14613484261430389.
8. GBD 2023 Diarrhoeal Disease and Enteric Infectious Diseases Collaborators. Global burden of enteric infectious diseases, diarrhoeal diseases, and corresponding aetiologies, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet Infectious Diseases*. 2 June 2026. doi: 10.1016/S1473-3099(26)00194-5
9. Wang, Q., Eweade, B. S., & Ozsahin, D. U. (2026). Can Geopolitical Risks, International Climate Policies, and the Uncertainty of Oil Prices Affect the Returns of Energy Stocks?. *Environmental Modeling & Assessment*, 1-17.
10. Ozsahin, D. U., Emegano, D. I., Uzun, B., & Ozsahin, I. (2026). A detailed review of large language models in the healthcare sector. *Journal of Electrical Systems and Information Technology*, 13(1), 22.
11. Emegano, D. I., Mustapha, M. T., Isaac, E. P., Ozsahin, I., Uzun, B., & Ozsahin, D. U. (2026). Predictive modeling of vocal biomarkers for the diagnosis of Parkinson's disease. *Cognitive Neurodynamics*, 20(1), 54.
12. Ibrahim, R. A., Ahmad, H., Alnahdi, A. S., & Ozsahin, D. U. (2026). The Painlevé analysis and computational technique for new wave solutions with its numerical validation to the complex short pulse equation. *Kuwait Journal of Science*, 100556.
13. GBD 2023 HIV Collaborators. Global, regional, and national burden of HIV/AIDS, 1990–2023, with the estimated burden attributable to intimate partner violence and forecasted impacts of funding cuts through 2030: results from the Global Burden of Disease Study 2023. *The Lancet HIV*. 18 August 2026. doi: 10.1016/S2352-3018(26)00147-5
14. Rayal, A., Kaur, J., Patel, P. A., Ozsahin, D. U., Ahmad, H., Nguyen, H. M., ... & Radwan, T. (2026). A SPECTRAL COLLOCATION SCHEME WITH 2D ULTRASPHERICAL WAVELETS FOR FRACTIONAL NONLINEAR GAS DYNAMICS EQUATIONS UNDER CAPUTO–FABRIZIO DERIVATIVE. *Fractals*, 2640019.
15. GBD 2023 TB HIV Collaborators. Global, regional, and national burden of tuberculosis and multidrug-resistant tuberculosis by HIV status, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet Infectious Diseases*. 1 July 2026. doi: 10.1016/S1473-3099(26)00295-1
16. Ahmad, F., Navid, A., Irfan, M., Almajhdi, F. N., Hussain, T., Ozsahin, D. U., ... & Waheed, Y. (2026). Discovery of potential antiviral compounds and accelerating the therapeutic discovery against monkeypox virus. *Scientific Reports*.
17. Emegano, D. I., Ozsahin, I., Isaac, E. P., Ozsahin, D. U., Silas, O. S., Emegano, C. L., & Uzun, B. (2026). Artificial intelligence and diagnosis and management of tuberculosis disease in children. *Current Opinion in Pediatrics*, 38(2), 155-161.
18. GBD 2023 LDL Cholesterol Collaborators. Global Burden of Elevated LDL-C: Findings From the Global Burden of Disease Study 2023. *JAMA*. 29 July 2026. doi: 10.1001/jama.2026.8628
19. Awosusi, A. A., & Ozsahin, D. U. (2026). Assessing the Role of Renewable-Based Energy Innovation, Economic Growth, and Political Risk in Shaping Japan's Load Capacity Factor: a wavelet-based quantile analysis. *Renewable Energy*, 125400.
20. Moustafa, I. M., Ozsahin, D. U., Mustapha, M. T., Zadeh, S., Khowailed, I., Oakley, P. A., & Harrison, D. E. (2026). Machine learning models for predicting treatment outcomes in chronic non-specific back pain patients undergoing lumbar extension traction. *Scientific Reports*.
21. Ismail, H., Hariharan, S., Shangerganesh, L., Govindaraj, V., Ozsahin, I., Ozsahin, D. U., & Ahmad, H. (2025). Stability analysis of a fractional prey–predator model with Holling type III functional response

- and disease in both populations. *Network Modeling Analysis in Health Informatics and Bioinformatics*, 15(1), 20.
22. Edo, G. I., Mafe, A. N., Ali, A. B., Akpogheli, P. O., Yousif, E., Lwanegbe, L., ... & Alamiery, A. A. (2026). Probiotics as eco-friendly bio-preservatives: In vivo mechanisms of mycotoxin inhibition and emerging applications for food safety and human health. *Mycotoxin Research*, 42(1), 12.
 23. Usanase, N., Usman, A. G., & Ozsahin, D. U. (2026). Applications of Machine Learning Algorithms in Dementia Classification Using Eight Clinical Diagnostic Measures. *Ageing International*, 51(1), 1.
 24. Oshionebo, F. D., Kavaz, D., Ozsahin, D. U., Adedeji, M., Uzun, B., Dagbasi, M., & Adun, H. (2025). Optimized nanofluid coolants enhance thermal performance in ruffled fin automotive radiators. *Scientific Reports*.
 25. Chen, G., Eweade, B. S., & Ozsahin, D. U. (2026). The industrialization paradox under energy-transition policies: Do ICT, economic growth and natural resource rents promote renewable energy adoption?. *Environmental Progress & Sustainable Energy*, 45(1), e70226.
 26. Edo, G. I., Elooghene, E. M., Ali, A. B., Iwanegbe, I., Jikah, A. N., Yousif, E., ... & Alamiery, A. A. (2026). Conductive polymers as sensors for real-time monitoring of food quality. *Polymer Bulletin*, 83(2), 87.
 27. Usanase, N., Uwamahoro, C., & Ozsahin, D. U. (2025). Artificial Intelligence in Improving Stroke Diagnosis: Focus on Machine Learning Models and Explainable AI Application. *Experimental and Applied Biomedical Research (EABR)*, 26(4), 391-397.
 28. Ayaz, H., Hussain, T., Nawaz, A., Suleman, M., Alrokayan, S., Ozsahin, D. U., ... & Waheed, Y. (2025). Exploring the hub gene CERS6 as a therapeutic target in type 1 diabetes through a bioinformatics and network analyst approach. *Scientific Reports*.
 29. Nwakpa, C. E., Izuchukwu, C., Okeke, C. C., Ozsahin, D. U., & Adamu, A. (2025). Solving Equilibrium Problem with New Inertial Technique. *arXiv preprint arXiv:2511.18642*.
 30. Akpogheli, P. O., Edo, G. I., Ali, A. B., Yousif, E., Owhero, J. O., Oghoro, E. E. A., ... & Umar, H. (2025). The impact of molecular hydrogen in food, health and agriculture: an updated review. *Sustainable Chemistry One World*, 100153.
 31. Sami, A., Ashraf, R., Nisar, S., Mustehsan, Z. H., Javed, M. A., Ozsahin, D. U., & Waheed, Y. (2025). A comprehensive narrative review on precision medicine approach to hypertension: exploring the role of genetics, epigenetics, microbiome, and artificial intelligence. *Journal of Health, Population and Nutrition*, 44(1), 394.
 32. Usanase, N., Ozsahin, D. U., Hussain, A. J., Ozsahin, I., & Uzun, B. (2025, November). The Preference Decision Analysis on Biomedical and Food Cell Preservation Techniques. In *2025 18th International Conference on Development in eSystem Engineering (DeSE)* (pp. 511-516). IEEE.
 33. Emegano, D. I., Ozsahin, D. U., Uzun, B., Ozsahin, I., & Hussain, A. J. (2025, November). Machine Learning Prediction for Appendicitis: A Comprehensive Study of Blood Markers and Clinical Variables. In *2025 18th International Conference on Development in eSystem Engineering (DeSE)* (pp. 124-129). IEEE.
 34. Usanase, N., Ozsahin, I., Ozsahin, D. U., Hussain, A. J., & Uzun, B. (2025, November). The Effect of Patient, Donor, and Organ Viability Features in Kidney Transplant Survival Prediction. In *2025 18th International Conference on Development in eSystem Engineering (DeSE)* (pp. 130-135). IEEE.
 35. Akpogheli, P. O., Edo, G. I., Gaaz, T. S., Akpogheli, E. O., Iwanegbe, I., Owhero, J. O., ... & Umar, H. (2026). Mycotoxins in food and agriculture: from occurrence to economic consequences. *Archives of Microbiology*, 208(1), 1-24.
 36. Elijah Nwakpa, C., Izuchukwu, C., Okeke, C. C., Uzun Ozsahin, D., & Adamu, A. (2025). Solving Equilibrium Problem with New Inertial Technique. *arXiv e-prints*, arXiv:2511.
 37. Jedua, H., Mafe, A. N., Edo, G. I., Ali, A. B., Iwanegbe, I., Akpogheli, P. O., ... & Alamiery, A. A. (2026). Microbial contamination pathways: Assessing the impact of building-damaging microorganisms on food safety and structural integrity in humid home environments. *Journal of Stored Products Research*, 115, 102857.
 38. Ahmad, F., Basharat, Z., Janjua, A., Najmi, M. H., Almajhdi, F. N., Hussain, T., ... & Waheed, Y. (2025). An exploratory binding study of molnupiravir efficacy against emerging Omicron SARS-CoV-2 variants. *Scientific Reports*, 15(1), 36549.
 39. Erganis, S., Seyer, A., Mustapha, M. T., Yuvali, M., Martli, F., Algin, S., ... & Kalkanci, A. (2025). Minimum Inhibitory Concentrations of Anidulafungin as a Potential Predictor of Biocide Susceptibility of Clade 1 *Candidozyma* (*Candida*) *auris* Isolates. *MicrobiologyOpen*, 14(5), e70093.
 40. Waheed, Y., Awan, S. N., Almajhdi, F. N., Ahmad, B., Sami, A., & Ozsahin, D. U. (2025). Seroprevalence of hepatitis B and hepatitis C viral infections among refugees in Muzaffarabad, Pakistan. *BMC Infectious Diseases*, 25(1), 1212.

41. Aminu, I. I., Bashir, A., Sunusi, A. M., Malami, S., Usman, A. G., Abba, S. I., & Ozsahin, D. U. (2025). State-of-art implementation of computing intelligent models for water demand modelling: A decade review and future direction. *Journal of Water and Land Development*, 214-224.
42. Ainyanbhor, I. E., Edo, G. I., Ali, A. B., Akpogheli, P. O., Akpo, M. O., Yousif, E., ... & Alamiery, A. A. (2025). Ibuprofen: A review on its synthesis, mechanism of action, pharmacological properties, and environmental impact. *Pharmacological Research-Reports*, 100066.
43. Onakpojeruo, E. P., Ozsahin, D. U., Uzun, B., & Ozsahin, I. (2025). Enhancing dementia classification using denoising diffusion models and conditional deep convolutional neural networks. *Alzheimer's & Dementia*, 21, e098727.
44. Onakpojeruo, E. P., Ozsahin, D. U., Uzun, B., & Ozsahin, I. (2025). Comparative evaluation of machine learning models for dementia prediction. *Alzheimer's & Dementia*, 21, e098569.
45. Onakpojeruo, E. P., Ozsahin, D. U., & Ozsahin, I. (2025). Enhancing brain tumor classification with a diffusion denoising model and a conditional deep convolutional neural network. *Advanced Neurology*, 4(4), 88-100.
46. Emegano, D. I., Ozsahin, D. U., Uzun, B., & Ozsahin, I. (2025). The Integration of Virtual Reality (VR), Augmented Reality (AR), and Artificial Intelligence in Revolutionizing Healthcare: A Systematic Review. *Augmented Human Research*, 10(1), 9.
47. Mafe, A. N., Smart, O. O., Edo, G. I., Akpogheli, P. O., Gaaz, T. S., Yousif, E., ... & Umar, H. (2025). Genesis, health benefits, and future perspectives of probiotics: exploring endogenous and exogenous classes, innovations, and research gaps. *Probiotics and Antimicrobial Proteins*, 1-34.
48. Mangai, T. R., Duwa, B. B., Umar, H., & Ozsahin, D. U. (2025). A Hybrid Cnn-Lstm-Based Rnn Model for Classification of Schizophrenia. *Global Journal of Sciences*, 2(1), 88-98.
49. Ofuzor, M. C., Efe-Onakpojeruo, C. C., Onakpojeruo, E. P., Ozsahin, D. U., & Al-Turjman, F. (2025). 28 Big Data Analytics for. *Artificial Intelligence Learning Facilitators: Creating Smart Education Systems*, 340.
50. Mati, S., Usman, A. G., Ismael, G. Y., Babuga, U. T., Nadarajah, S., Masoud, S., ... & Abba, S. I. (2025). Explainable support vector regression coupled with quantum firefly optimisation algorithm for carbon emission prediction in West Africa: The role of socioeconomic, energy, and environmental factors. *Renewable Energy*, 124298.
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 156. Uzun Ozsahin, D., Ikechukwu Emegano, D., Uzun, B., Ozsahin, I. The Systematic Review of Artificial Intelligence Applications in Breast Cancer Diagnosis (2023) *Diagnostics*, 13 (1)

ORAL & POSTER PRESENTATIONS

1. Comparative evaluation of blood conservation techniques in cardiovascular surgery using multicriteria decision-making Methods, Ozlem Balcioglu, Declan Ikechukwu Emegano, Berna Uzun, Türker Şahin, Ilker, Ozsahin, Dilber Uzun Ozsahin, Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
2. Comparative Evaluation of 3D Filaments, Used in Additive Manufacturing of Biomedical Tools; Using Fuzzy PROMETHEE, Dilber Uzun Ozsahin, Basil Bartholomew Duwa, Efe Precious Onakpojeruo, Berna

- Uzun, Ilker Ozsahin, Advances in Science & Engineering Technology (ASET), Invited Speaker, February 20-23, 2023, Dubai, UAE
3. The Efficacy and safety of Direct Oral for the treatment of venous thrombosis in cancer using Fuzzy PROMETHEE, Dilber Uzun Ozsahin, Natacha Usanase, Ozlem Balcioglu, Ilker Ozsahin, Berna Uzun, Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 4. Classification comparison of Machine Learning Algorithms Using Spectroscopic Breast Tissues Dataset. Meliz Yuvalim, Mohamed Abuzaid, Dilber Ozsahin, Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 5. Drug- Delivery Nanoparticles with Conventional Treatment Approaches for Cancer Tumours;A comparative study using MCDM Tool, Efe Precious Onakpojeruo , Dilber Uzun Ozsahin, Berna Uzun, Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 6. Selection Methods for the Treatment of Spinal Cord Tumours Using Analytical Evaluation Models, Dilber Uzun Ozsahin, Efe Precious Onakpojeruo, Berna Uzun, Ilker Ozsahin. Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 7. Medical Reports Summarization Using Text-To-Text Transformer. Abdulkader Helwan, Danielle Azar, Dilber Uzun Ozsahin Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 8. Evaluation of Radiation Projection Awareness Among Nurses: A cross-sectional Study. Leena R David, Meliz Yuvali, Dilber Uzun Ozsahin, Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 9. A comparative analysis of DOACs vs warfarin for venous thromboembolism treatment in renal insufficiency, O Balcioglu, N Usanase, B Uzun, I Ozsahin, D Uzun Ozsahin Turk J Vasc Surg 32 (2), 42-50
 10. Evaluating different types of treatment for Osteoporosis using Fuzzy PROMETHEE, Berna Uzun, Leena R David, Dilber Uzun Ozsahin, Meliz Yuvali, Advances in Science & Engineering Technology (ASET), Speaker, February 20-23, 2023, Dubai, UAE
 11. Evaluation of Techniques Used in Phenol Removal from Wastewater Using Fuzzy PROMETHEE Method.BB Duwa, AG Kibarar, B Uzun, Ş Kaba, DU Ozsahin, 15th International Conference on Applications of Fuzzy Systems
 12. Global Summit on Public Health and Preventive Medicine (GSPHPM2022), Plenary Speaker, Evaluation of the Sickle Cell Treatment Options using Fuzzy Topsis Technique, The SCIENTISST, Munich, Germany
 13. Evaluation of Construction Materials Waste Disposal Methods using Multi Criteria Decision Analysis, Huseyin Gokcekus Nivin Ghaboun, Berna Uzun, Dilber Uzun Ozsahin, Advances in Science & Engineering Technology (ASET), 2022
 14. Evaluation of the Thyroid Cancer Treatment Techniques with Fuzzy VIKOR, Mubarak Taiwo Mustapha, Dilber Uzun Ozsahin, Berna Uzun, Ilker Ozsahin, Advances in Science & Engineering Technology (ASET), 2022
 15. A decision-making model for treatment alternatives of different clinical abdominal aortic aneurysm presentations, O Balcioglu, U Ozad, B Uzun, I Ozsahin, DU Ozsahin,, The 3rd International Conference on Distributed Sensing and Intelligent
 16. Emerging AI and cloud computing paradigms applied to healthcare, EP Onakpojeruo, F Al-Turjman, MT Mustapha, C Altrjman, DU Ozsahin, The International Conference on Forthcoming Networks and Sustainability
 17. Impact of Outliers and Dimensionality Reduction on the Performance of Predictive Models for Medical Disease Diagnosis DU Ozsahin, MT Mustapha, AS Mubarak, ZS Ameen, B Uzun, 2022 International Conference on Artificial Intelligence in Everything
 18. Sorting Greenhouse Gases Based on Human and Environmental Impacts Using (MCDA), N Ghaboun, H Gökçekuş, B Uzun, DU Ozsahin, Climate Change, Natural Resources and Sustainable Environmental Management, 2022 International Conference on Artificial Intelligence in Everything
 19. Evaluating electronic blood pressure measurement devices with fuzzy TOPSIS technique, Qasem A Alyazji, Dilber Uzun Ozsahin, Berna Uzun, Ilker Ozsahin, Advances in Science & Engineering Technology (ASET), 2022
 20. Evaluation of the Effectiveness of Double Border-Screening Strategy with and without Quarantine in Prevention of COVID-19, Buket Baddal, Dilber Uzun Ozsahin, Berna Uzun, Tamer Sanlidag, Advances in Science & Engineering Technology (ASET), 2022
 21. Evaluation of Construction Materials Waste Disposal Methods using Multi Criteria Decision Analysis. H Gökçekuş, N Ghaboun, B Uzun, DU Ozsahin. 2022 Advances in Science and Engineering Technology (ASET), 2022

22. Evaluation of the Thyroid Cancer Treatment Techniques with Fuzzy VIKOR. MT Mustapha, DU Ozsahin, B Uzun, I Ozsahin 2022 Advances in Science and Engineering Technology (ASET), 2022
23. Fuzzy PROMETHEE Method for Evaluating Performance of SARS-CoV-2 IgM Antibody Tests, Ayse Arikan Tamer Sanlidag, Murat Sayan, Berna Uzun, Dilber Uzun Ozsahin, European Biotechnology Congress 2021, (plenary talk)
24. Performance Ranking of Diagnostic SARS-CoV -2 IgG Antibody Tests by Using Multi-Criteria Decision-Making Theory, Dilber Uzun Ozsahin, Ayse Arikan, Tamer Sanlidag, Murat Sayan, Berna Uzun, 14th International Conference, DeSE2021, (plenary talk)
25. Ranking of SARS-CoV-2 Antigen Tests by Evaluating Common Criteria by Multi-criteria Decision-Making Theory, Tamer Sanlidag, Ayse Arikan, Berna Uzun, Murat Sayan, Dilber Uzun Ozsahin, European Biotechnology Congress 2021, (plenary talk)
26. Evaluation of Cement Manufacturing Methods Using Multi Criteria Decision Analysis (MCDA), Hüseyin Gökçekuş, Nivin Ghaboun, Berna Uzun, Dilber Uzun Ozsahin, 14th International Conference, DeSE2021, (plenary talk)
27. Evaluation and Simulation of Breast Cancer Imaging Devices, 15th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD19) 14-17 October 2019 Siena, Italy, (plenary talk)
28. Design and Performance Evaluation of an Adjustable-FOV PET Scanner, 15th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD19) 14-17 October 2019 Siena, Italy, (plenary talk)
29. Evaluation Of The Learning Models Using Multi-Criteria Decision Making Theory, Second International Conference on The Environment Survival and Sustainability 7-11 October 2019 (plenary talk)
30. Selecting And Evaluating The Best Public Private Partnership Contract, Second International Conference on The Environment Survival and Sustainability 7-11 October 2019 (plenary talk)
31. Comparative Analysis Of Flexible Pavement Design Methods, Second International Conference on The Environment Survival and Sustainability 7-11 October 2019 (plenary talk)
32. Decreasing The Bad Effects Of Climate Change On Islands, By Supporting Of Artificial Neural Network Technology, Second International Conference on The Environment Survival and Sustainability 7-11 October 2019 (plenary talk)
33. Intelligent Learning Systems For The Environmental Factors That Affect The Distribution Of Some Leishmaniasis Vectors. Second International Conference on The Environment Survival and Sustainability 7-11 October 2019 (plenary talk)
34. The Use of Fuzzy PROMETHEE Technique in Antiretroviral Combination Decision in Pediatric HIV Treatments, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
35. Determination of Post-Exposure Prophylaxis Regimen in the Prevention of Potential Pediatric HIV- 1 Infection by the Multi-criteria Decision Making Theory, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
36. Selection of the Most Appropriate Antiretroviral Medication in Determined Aged Groups (≥ 3 years) of HIV-1 Infected Children, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
37. Evaluation and Simulation of Colon Cancer Treatment Techniques with Fuzzy PROMETHEE, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
38. A Comparison for Liver Cancer Treatment Alternatives, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
39. Evaluation of Sterilization Methods for Medical Devices, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
40. Fuzzy PROMETHEE for Ranking Pancreatic Cancer Treatment Techniques, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2019 (plenary talk)
41. Comparative Analysis of Wastewater Treatment Technologies, 2nd International Conference on Water Problems in the Mediterranean Countries 2019 (plenary talk)
42. Effective Analysis of Different Natural Wastewater Treatment Alternatives, 2nd International Conference on Water Problems in the Mediterranean Countries 2019 (plenary talk)
43. Analysis of Disinfection techniques of water treatment, 2nd International Conference on Water Problems in the Mediterranean Countries 2019 (plenary talk)

44. Applying Fuzzy PROMETHEE Multicriteria Method for Water Sterilization Devices, 2nd International Conference on Water Problems in the Mediterranean Countries 2019 (plenary talk)
45. Evaluating and Selecting the Best Domestic Water Standards, 2nd International Conference on Water Problems in the Mediterranean Countries 2019 (plenary talk)
46. SIMULATION AND EVALUATION OF HIGH PERFORMANCE COST-EFFECTIVE POSITRON EMISSION MAMMOGRAPHY (PEM) SCANNER WITH LASER INDUCED OPTICAL BARRIER TECHNIQUES, The International Workshops on Radiation Imaging Detectors, Sundsvall, Sweden June 2018 (plenary talk)
47. EVALUATIONS OF COMMON SOLID-STATE DETECTORS WITH MULTI-CRITERIA DECISION-MAKING THEORY FUZZY PROMETHEE, The International Workshops on Radiation Imaging Detectors, Sundsvall, Sweden June 2018 (poster)
48. Simulation of New Scintillation Crystals for Brain PET, The International Workshops on Radiation Imaging Detectors, Sundsvall, Sweden June 2018 (poster)
49. Effective Analysis of Image Reconstruction Algorithms in Nuclear Medicine Using fuzzy PROMETHEE, Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE March 2018 (plenary talk)
50. Breast cancer image classification using artificial neural networks (plenary talk) 9th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception, ICSCCW 2017, 24-25 August 2017, Budapest, Hungary
51. Evaluating nuclear medicine imaging devices using fuzzy PROMETHEE method (plenary talk) 9th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception, ICSCCW 2017, 24-25 August 2017, Budapest, Hungary
52. GATE simulation of a High Performance Stationary SPECT System for Cardiac Imaging (poster) (29 October- 6 November IEEE NSS/MIC, 2016, Strasbourg, France)
53. Scintillator-Based Photon Counting Detector: Is It Feasible? (talk) (29 October- 6 November IEEE NSS/MIC, 2016, Strasbourg, France)
54. Light Transport in PET Scintillator Detectors Fabricated Using Laser Induced Optical Barriers (poster) (29 October- 6 November IEEE NSS/MIC, 2016, Strasbourg, France)
55. GATE simulation of a stationary SPECT system for small animal brain imaging, 14th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD16) (3-6 October, Siena, Italy, 2016), (plenary talk)
56. PET SCANNER SIMULATION and MOTION COMPENSATION, 14th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD16) (3-6 October, Siena, Italy, 2016), (plenary talk)
57. Simulation of High-performance cost-effective stationary cardiac DC-SPECT system with dynamic capabilities, (accepted plenary talk) SNMMI 2016 Annual Meeting, 11-15, June, 2016, San Diego, California
58. Development of a Sub-mm Spatial Resolution LYSO:Ce Detector with DOI for Small Animal PET (poster) 22nd International Symposium on Room-Temperature Semiconductor X-ray and Gamma-ray Detectors, (31 October- 7 November 2015 IEEE Nuclear Science Symposium, San Diego, USA)
59. Evaluation of A Dedicated LM-OSEM Algorithm for The Reconstruction Of Images With The VIP-PEM System (plenary poster) 15th International Workshop on Radiation Imaging Detectors (IWORID 23-27 June 2013, Paris, France)
60. Evaluation of Origin Ensemble Algorithm for Image Reconstruction for Pixelated Solid-State Detectors with Large Number of Channel, (poster) (IWORID 23-27 June 2013, Paris, France)
61. Characterization of CdTe detector for use in PET, IEEE Nuclear Science Symposium and Medical Imaging(23-29 October 2011, Valencia, Spain)
62. Modeling, simulation and evaluation of a Compton camera based on a pixelated solid-state detector, (plenary poster) 2011 IEEE Nuclear Science Symposium and Medical Imaging Conference (23-29 October 2011, Valencia, Spain)
63. Simulation of pseudo-clinical conditions and image quality evaluation of PET scanner based on pixelated CdTe detector (poster) Spain IEEE Nuclear Science Symposium and Medical Imaging Conference (23-29 October 2011, Valencia, Spain)
64. Forward physics results from CMS experiment: Radiation Damage and Monitoring system in the local runs and in the orbit gap (plenary talk) June 2009

CONFERENCES

1. 2025 IEEE 22nd International Multi-Conference on Systems, Signals & Devices, February 17-20, 2025, Montasir, Tunisia
2. DUPHAT Dubai, 7-9 Jan., 2025
3. Fifth Forum for Women in Research, 20-21 Feb 2025, University of Sharjah, Sharjah, UAE
4. 7th International Conference on the Developments in eSystems Engineering (DeSE2024), Chair, Sharjah & Khorfakkan, UAE, 2024
5. International Conference on Biomedical Engineering – 2024 Advances in Science and Engineering Technology (ASET), Dubai, UAE, 2024
6. Advances in Science & Engineering Technology (ASET), Organizer, Chair, February 20-23, 2023, Dubai, UAE
7. Advances in Science & Engineering Technology (ASET), Organizer, Chair, February 21-24, 2022, Dubai, UAE
8. Global Summit on Public Health and Preventive Medicine (GSPHPM2022), Plenary Speaker, The SCIENTISST, Munich, Germany
9. European Biotechnology Congress September, 23-25 2021, virtual
10. 14th International Conference, DeSE2021, 2021 Sharjah, UAE
11. European Biotechnology Congress September 23-25 2021, virtual
12. 14th International Conference, DeSE2021, 2021 Sharjah, UAE
13. 15th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD19) 14-17 October 2019 Siena, Italy
14. Second International Conference on The Environment Survival and Sustainability, 7-11 October 2019, Near East University, TRNC, Mersin 10 Turkey (plenary talk)
15. Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE 21st March 2019
16. 2nd International Conference on Water Problems in the Mediterranean Countries, 2019, Near East University, TRNC, Mersin 10 Turkey
17. The International Workshops on Radiation Imaging Detectors (IWORLD), Sundsvall, Sweden, June 2018
18. Advances in Science and Engineering Technology (ASET) Engineering Innovations in Healthcare International Conference, Sharjah - UAE 21st March 2018
19. International Symposium on Industry 4.0 and Applications (ISIA 2017), Karabük, Turkey
20. 9th International Conference on Theory and Application of Soft Computing, Computing with Words and Perception, ICSCCW 2017, 24-25 August 2017, Budapest, Hungary
21. IEEE Nuclear Science Symposium and Medical Imaging Conference (23-29 October 2011) Valencia, Spain.
22. 15th International Workshop on Radiation Imaging Detectors (23-27 June, 2013) Paris, France.
23. 22nd International Symposium on Room-Temperature Semiconductor X-ray and Gamma-ray Detectors, (31 October- 7 November 2015 IEEE Nuclear Science Symposium, San Diego, USA)
24. SNMMI 2016 Annual Meeting, (11-15, June, 2016) San Diego, California
25. 14th Topical Seminar on Innovative Particle and Radiation Detectors (IPRD16) (3-6 October 2016), Siena, Italy
26. IEEE Nuclear Science Symposium and Medical Imaging Conference (29 October- 6 November 2016) Strasbourg, France.