

Curriculum Vitae

Name: Ilker Ozsahin

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Place of Birth: Adana, Turkey

Among World's Top 2% Most Cited Scientist Single Year 2025 (Released by Stanford University): <https://elsevier.digitalcommonsdata.com/datasets/btchxktzyw/8>

Google Scholar: <https://scholar.google.com/citations?user=-njGIoEAAAAJ&hl=en&oi=ao>

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=55115748200>

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ResearchGate: <https://www.researchgate.net/profile/Ilker-Ozsahin>

Education

2008- 2014	PhD	Physics/Medical Imaging	Cukurova University
2002 - 2007	Bachelor of Science	Physics	Cukurova University

Postdoctoral Training

2022 - 2024	Postdoctoral Associate	Radiology	Weill Cornell Medicine
2021 - 2022	Postdoctoral Research Fellow	CMS/HCAL	CERN
2018 - 2019	Postdoctoral Research Fellow	Biomedical Imaging Lab	University of Macau
2015 - 2017	Postdoctoral Research Fellow	Radiology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

2015 - 2017	Postdoctoral Research Fellow	Nuclear Medicine	Massachusetts General Hospital
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Other Professional Positions

July 2020 -	Assoc. Prof.	Near East University, North Cyprus
September 2017 - July 2020	Asst. Prof.	Near East University, North Cyprus
November 2008 - September 2014	Research Assistant	Cukurova University, Turkey

Other Educations and Courses

July 2021	LHC - Machine, CERN
July 2021	Portable ODH Detector, CERN
July 2021	Electrical Safety - Awareness - Facilities, CERN
July 2021	Electrical Safety - Awareness - Fundamentals, CERN
June 2021	Self-Rescue Mask - Initial (Covid-19), CERN

June 2021	Radiation Protection - Controlled Area - Initial, CERN
April 2021	Radiation Protection - Awareness, CERN
April 2021	Radiation Protection-Supervised Area, CERN
July 2016	Certificate in Applied Biostatistics, Harvard Catalyst's Education Program
December 2015	Medical Imaging Sciences and Applications, Harvard-MIT Division of Health Science Technology
October 2015	Medical Device Development, Harvard Catalyst's Education Program
October 2015	Introduction to Clinical Investigation Course, Harvard Catalyst's Education Program
September 2015	Massachusetts General Hospital General Safety Training
July 2015	Responsible Conduct of Research (RCR) Basic Course: Plagiarism, Authorship, Collaborative Research, Data Management, Financial Responsibility, Mentoring, Peer Review, Research Misconduct
July 2015	Radiation Safety Training, Massachusetts General Hospital Radiation Safety Office
June 2015	Human Research Training
June 2015	Magnetic Resonance Imaging Safety Training

Teaching Experience

Undergraduate

Calculus

Physics

Electromagnetic Theory

Radiology Physics

Nuclear Medicine

Biomedical Instrumentation

Biomedical Signal Processing

Postgraduate

Medical Imaging Science and Technologies

Neuroscience

Neuroimaging

Awards

2023 Alzheimer's Association International Conference (AAIC) Conference Fellowship

2015 - 2016 International Postdoctoral Research Fellowship, The Scientific and Technological Research Council of Turkey (TUBITAK), Harvard Medical School and Massachusetts General Hospital, Boston, Massachusetts, USA

2011 - 2012 PhD student, research position in a European Research Council (ERC) awarded project, IFAE (Institut de Fisica d'Altes Energies – Institute of High Energy Physics), Universitat Autònoma de Barcelona (UAB) in Barcelona, Spain

2009 Summer internship at Frederick Seitz Materials Research Laboratory at the University of Illinois at Urbana-Champaign, Illinois, USA

Computer Skills

Operating Systems: Linux, Mac OS, Windows

Software / Applications, Languages and Scripts: LaTeX, ROOT, GATE, GAMOS (Geant4-based Architecture for Medicine-Oriented Simulations), ImageJ, AMIDE, Freesurfer, FSL

Publications

2026

1. Adewusi, E. O., D.Kirikaleli, H.Rjoub, R. O.Bamidele, **I.Ozsahin**, and T. S.Taiwo. 2026. "Mapping China's Environmental Sustainability Drivers With Wavelet-Based Artificial Neural Network: Role of Global Supply-Chain Management, Rule of Law and Gender Equality." *Geological Journal* 1–19. <https://doi.org/10.1002/gj.70260>.
2. Gohar Ali, Farhad Ali, Matin Ahmad, Tareq Alqahtani, Mohsen Bakouri, Kashif Nazar, Zeineb Klai, Ilyas Khan, **Ilker Ozsahin**, Wei Sin Koh. Arterial Hemodynamics of Two Phase Blood Flow for Medical Diagnostics. (2026). *European Journal of Pure and Applied Mathematics*, 19(1), 6399. <https://doi.org/10.29020/nybg.ejpam.v19i1.6399>
3. N. Usanase, D. U. Ozsahin, A. J. Hussain, **I. Ozsahin** and B. Uzun, "The Preference Decision Analysis on Biomedical and Food Cell Preservation Techniques," 2025 18th International Conference on Development in eSystem Engineering (DeSE), Bucharest, Romania, 2025, pp. 511-516, doi: 10.1109/DeSE68208.2025.11367961.
4. D. I. Emegano, D. U. Ozsahin, B. Uzun, **I. Ozsahin** and A. J. Hussain, "Machine Learning Prediction for Appendicitis: A Comprehensive Study of Blood Markers and Clinical Variables," 2025 18th International Conference on Development in eSystem Engineering (DeSE), Bucharest, Romania, 2025, pp. 124-129, doi: 10.1109/DeSE68208.2025.11367917.
5. N. Usanase, **I. Ozsahin**, D. U. Ozsahin, A. J. Hussain and B. Uzun, "The Effect of Patient, Donor, and Organ Viability Features in Kidney Transplant Survival Prediction," 2025 18th International Conference on Development in eSystem Engineering (DeSE), Bucharest, Romania, 2025, pp. 130-135, doi: 10.1109/DeSE68208.2025.11367935.
6. GBD 2023 Breast Cancer Collaborators. Global, regional, and national burden of breast cancer among females, 1990–2023, with forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet Oncology*. 2 March 2026. DOI: 10.1016/S1470-2045(25)00730-2
7. Meng W, Zahid Piracha Z, Saeed U, Ozsahin DU, **Ozsahin I**, et al. MEK1/2 Inhibitor (U0126) and PI3K Inhibitor (LY294002) Suppress Herpes Simplex Virus Type 1 Replication by Targeting MAPK/ERK1/2 and PI3K/AKT Signaling Pathways: Implications for Oral Health and Translational Control of Orolabial HSV-1 Infection. *Iran J Pharm Res*. 2025;24(1):e164639. doi: <https://doi.org/10.5812/ijpr-164639>
8. Dilber Uzun Ozsahin, Declan Ikechukwu Emegano, Berna Uzun & **Ilker Ozsahin**. A detailed review of large language models in the healthcare sector. *Journal of Electrical Systems and Inf Technol* **13**, 22 (2026). <https://doi.org/10.1186/s43067-026-00327-z>
9. Declan Ikechukwu Emegano, Mubarak Taiwo Mustapha, Emeje Paul Isaac, **Ilker Ozsahin**, Berna Uzun & Dilber Uzun Ozsahin. Predictive modeling of vocal biomarkers for the diagnosis of Parkinson's disease. *Cogn Neurodyn* 20, 54 (2026). <https://doi.org/10.1007/s11571-026-10426-2>.
10. Khan M, Saeed U, Piracha ZZ, **Ozsahin I**, Shao-Chun C. Innovative public-health strategies for neurodegenerative disease: leveraging diversified ultraviolet irradiation as a

next-generation therapy. *Braz J Biol.* 2026 Jan 9;85:e297765. doi: 10.1590/1519-6984.297765. PMID: 41538578.

11. K. S. Vishnukumar, S. M. Sivalingam, V. Govindaraj, Berna Uzun, **Ilker Ozsahin**, Hijaz Ahmad, And Taha Radwan. Controllability of The Time-Varying Fractional Dynamical Systems Having Multiple Delyas in Control With Caputo Fractional Derivative. *Fractals*. <https://doi.org/10.1142/S0218348X26400025>
12. Ozsahin, D. U., Emegano, D. I., Mustapha, M. T., Uzun, B., & **Ozsahin, I.** (2026). Artificial intelligence–assisted diagnosis of prostate cancer based on prostate biopsy. *South African Journal of Science*, 122(1/2). <https://doi.org/10.17159/sajs.2026/18193>
13. Emegano DI, **Ozsahin I**, Isaac EP, Ozsahin DU, Silas OS, Emegano CL, Uzun B. Artificial intelligence and diagnosis and management of tuberculosis disease in children. *Current Opinion in Pediatrics* ():10.1097/MOP.0000000000001551, February 10, 2026. DOI: 10.1097/MOP.0000000000001551
14. Halet Ismail, S. Hariharan, L. Shangerganesh, V. Govindaraj, **Ilker Ozsahin**, Dilber Uzun Ozsahin & Hijaz Ahmad. Stability analysis of a fractional prey–predator model with Holling type III functional response and disease in both populations. *Netw Model Anal Health Inform Bioinforma* 15, 20 (2026). <https://doi.org/10.1007/s13721-025-00692-1>
15. Muhammad Farooq, Faisal Zia, Rashid Nawaz, Alamgeer Khan, **Ilker Ozsahin**, Hijaz Ahmad, Waleed Mohammed Abdelfattah. Analysis of Plane Poiseuille flow of non-isothermal couple stress fluid between two parallel inclined plates using two reliable methods. *International Journal of Thermofluids*, Volume 31, 2026, 101520, <https://doi.org/10.1016/j.ijft.2025.101520>.
16. Karim K. Ahmed, Jibrin Sale Yusuf, Aliyu Isa Aliyu, Baba Galadima Agaie, **Ilker Ozsahin**, Tukur Abdulkadir Sulaiman, Abdullahi Yusuf, Homan Emadifar & Abeer S. Khalifa. Mathematical Analysis of Age-Structured Susceptibility in Campylobacteriosis Transmission Dynamics. *J Nonlinear Math Phys.* 33, 1 (2026). <https://doi.org/10.1007/s44198-025-00366-6>.

2025

1. GBD 2023 Lower Respiratory Infections and Antimicrobial Resistance Collaborators. Global burden of lower respiratory infections and aetiologies, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *Lancet Infect Dis.* 2025 Dec 15:S1473-3099(25)00689-9. doi: 10.1016/S1473-3099(25)00689-9.
2. Naseer Khan, Muhammad Farooq, Wajid Ullah Jan, Berna Uzun, Dragan Pamucar, **Ilker Ozsahin**, Hijaz Ahmad. Squeeze Flow of Ethylene Glycol-based Carbon Nanotube with the Influence of Joule Heating, Viscous Dissipation and Chemical Reactions. (2025). *European Journal of Pure and Applied Mathematics*, 18(4), 6935. <https://doi.org/10.29020/nybg.ejpam.v18i4.6935>
3. Ahmed, K.K., Yusuf, J.S., Aliyu, A.I. et al. Karim K. Ahmed, Jibrin Sale Yusuf, Aliyu Isa Aliyu, Baba Galadima Agaie, Abdulrazak Sale Yusuf, **Ilker Ozsahin**, Tukur Abdulkadir Sulaiman, Abdullahi Yusuf, Homan Emadifar & Abeer S. Khalifa. Modeling dysentery spread and the impact of public awareness on control dynamics. *Sci Rep* 15, 40602 (2025). <https://doi.org/10.1038/s41598-025-24286-z>
4. Hay SI, Ong KL, Santomauro DF, et al. Burden of 375 diseases and injuries, risk-attributable burden of 88 risk factors, and healthy life expectancy in 204 countries and territories, including 660 subnational locations, 1990–2023: a systematic analysis for the

- Global Burden of Disease Study 2023. *The Lancet*. 12 October 2025. doi: [https://doi.org/10.1016/S0140-6736\(25\)01637-X](https://doi.org/10.1016/S0140-6736(25)01637-X)
5. GBD 2023 Causes of Death Collaborators. Global burden of 292 causes of death in 204 countries and territories and 660 subnational locations, 1990–2023: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet*. 12 October 2025. doi: [https://doi.org/10.1016/S0140-6736\(25\)01917-8](https://doi.org/10.1016/S0140-6736(25)01917-8)
 6. Schumacher AE, Zheng P, Barber RM, et al. Global age-sex-specific all-cause mortality and life expectancy estimates for 204 countries and territories and 660 subnational locations, 1950–2023: a demographic analysis for the Global Burden of Disease Study 2023. *The Lancet*. 12 October 2025. doi: [https://doi.org/10.1016/S0140-6736\(25\)01330-3](https://doi.org/10.1016/S0140-6736(25)01330-3)
 7. Force LM, Kocarnik JM, May ML, et al. The global, regional, and national burden of cancer, 1990–2023, with forecasts to 2050: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet*. 24 September 2025. doi: [https://doi.org/10.1016/S0140-6736\(25\)01635-6](https://doi.org/10.1016/S0140-6736(25)01635-6)
 8. GBD 2023 Vaccine Coverage Collaborators. Global, regional, and national trends in routine childhood vaccination coverage from 1980 to 2023 with forecasts to 2030: a systematic analysis for the Global Burden of Disease Study 2023. *The Lancet*. 24 June 2025. doi: [https://doi.org/10.1016/S0140-6736\(25\)01037-2](https://doi.org/10.1016/S0140-6736(25)01037-2)
 9. Adebayo, T. S., Olanrewaju, V. O., Özkan, O., & Ozsahin, I. (2025). Examining the response of financial market volatility to cable news-based economic policy uncertainty. *Investment Analysts Journal*, 1–16. <https://doi.org/10.1080/10293523.2025.2544491>
 10. Efe Precious Onakpojeruo, Dilber Uzun Ozsahin, **Ilker Ozsahin**. Enhancing brain tumor classification with a diffusion denoising model and a conditional deep convolutional neural network. *Advanced Neurology* 025130025. <https://doi.org/10.36922/AN025130025>
 11. Emegano, D.I., Ozsahin, D.U., Uzun, B., **Ozsahin I**. The Integration of Virtual Reality (VR), Augmented Reality (AR), and Artificial Intelligence in Revolutionizing Healthcare: A Systematic Review. *Augment Hum Res* 10, 9 (2025). <https://doi.org/10.1007/s41133-025-00082-2>
 12. Hassan Ayaz, Asia Nawaz, Sajjad Ahmad, Faisal Ahmad, Anisa Tariq, Hanbal Ahmad Khan, Iftikhar Ahmed, Sidra Rahman, Muhammad Suleman, Dilber Uzun Ozsahin, **Ilker Ozsahin**, and Yasir Waheed, Network-Driven Methods Using Gene Expression Signatures to Find Therapeutic Targets in Breast Cancer Validated via Molecular Dynamics Studies. *Journal of Chemical Information and Modeling*. 10.1021/acs.jcim.4c01652
 13. Natacha Usanase, Declan Ikechukwu Emegano, Berna Uzun, Dilber Uzun Ozsahin, **Ilker Ozsahin**, An Ensemble Fuzzy-MCDM Approach for Evaluation of Approved Monkeypox Vaccines, *The EuroBiotech Journal*, Vol 9, 2025.
 14. Olanrewaju, V.O., Gyamfi, B.A., **Ozsahin, I**. et al. Achieving SDGs 7, 8, and 13: balancing policy uncertainty with renewable energy demand. *Environ Sci Eur* 37, 97 (2025). <https://doi.org/10.1186/s12302-025-01133-6>
 15. Abdul Sami, Ahsan Javed, Dilber Uzun Ozsahin, **Ilker Ozsahin**, Khalid Muhammad, and Yasir Waheed. Genetics of diabetes and its complications: a comprehensive review. *Diabetol Metab Syndr* 17, 185 (2025). <https://doi.org/10.1186/s13098-025-01748-y>
 16. Declan Ikechukwu Emegano, Mubarak Taiwo Mustapha, Dilber Uzun Ozsahin, **Ilker Ozsahin** & Berna Uzun. Histopathology-Based Prostate Cancer Classification Using

- ResNet: A Comprehensive Deep Learning Analysis. J Digit Imaging. Inform. med. (2025). <https://doi.org/10.1007/s10278-025-01543-1>
17. Almisned, F.A., Usanase, N., Ozsahin, D.U., **Ozsahin, I.** Incorporation of explainable artificial intelligence in ensemble machine learning-driven pancreatic cancer diagnosis. Sci Rep 15, 14038 (2025). <https://doi.org/10.1038/s41598-025-98298-0>
 18. **Ozsahin, I.**, Wang, X., Zhou, L. et al. Divergent neurodegeneration associations with choroid plexus volume and degree of calcification in cognitively normal APOE ϵ 4 carriers and non-carriers. Sci Rep 15, 12818 (2025). <https://doi.org/10.1038/s41598-025-97409-1>.
 19. Muhammad Farooq, Rashid Nawazb, Faridoon Shahid Alamgeer Khana, Ilker Ozsahin, Berna Uzun, Hijaz Ahmad. Comparative Analysis of Magnetohydrodynamic Inclined Poiseuille Flow of Couple Stress Fluids. Journal of Computational Applied Mechanics, 56, 3; 536-560.
 20. Muhammad Farooq, Atiq Ur Rahman, Asfandiyar Khan, Ilker Ozsahin, Berna Uzun, Hijaz Ahmad. Comparative Study of Non-Isothermal Poiseuille Flow of Couple Stress Fluid in Reynolds Model Between Inclined Plates Using Two Homotopy-Based Methods. Journal of Computational Applied Mechanics, 56, 3; 561-575.
 21. Saeed, Umar and Piracha, Zahra Zahid and Khan, Mahmood and Tariq, Muhammad Nouman and Gilani, Syed Shayan and Raza, Muhammad and Munusamy, Rakshana and Bose, Naveen and Ozsahin, Dilber Uzun and **Ozsahin, Ilker** and Nauli, Surya M. Cracking the code of HBV persistence: cutting-edge approaches to targeting cccDNA in chronic hepatitis B with or without pyogenic liver Abscesses. Front. Med. Volume 12, 2025.
 22. Ozsahin, D.U., Usanase, N. & **Ozsahin, I.** Advancing pancreatic cancer management: the role of artificial intelligence in diagnosis and therapy. Beni-Suef Univ J Basic Appl Sci 14, 32 (2025). <https://doi.org/10.1186/s43088-025-00610-4>
 23. Declan Ikechukwu Emegano, Mubarak Taiwo Mustapha, **Ilker Ozsahin**, Dilber Uzun Ozsahin, and Berna Uzun. 2025. "Advancing Prostate Cancer Diagnostics: A ConvNeXt Approach to Multi-Class Classification in Underrepresented Populations" Bioengineering 12, no. 4: 369. <https://doi.org/10.3390/bioengineering12040369>
 24. Shishir Shetty, Meliz Yuvali, **Ilker Ozsahin**, Saad Al-Bayatti, Sangeetha Narasimhan, Mohammed Alsaegh, Hiba Al-Daghestani, Raghavendra Shetty, Renita Castolino, Leena R David, Dilber Uzun Ozsahin, Machine Learning Models in the Detection of MB2 Canal Orifice in CBCT Images, International Dental Journal, Volume 75, Issue 3, 2025, <https://doi.org/10.1016/j.identj.2025.02.025>.
 25. Shishir Shetty, Wael Talaat, Natheer Al-Rawi, Sausan AlKawas, Mais Sadek, Malak Elayyan, Kamis Gaballah, Sangeetha Narasimhan, **Ilker Ozsahin**, Dilber Uzun Ozsahin, Leena R David, Accuracy of deep learning models in the detection of accessory ostium in coronal cone beam computed tomographic images. Sci Rep 15, 8324 (2025). <https://doi.org/10.1038/s41598-025-93250-8>.
 26. Declan Ikechukwu Emegano, Mubarak Taiwo Mustapha, Dilber Uzun Ozsahin, **Ilker Ozsahin**, Machine learning prediction of overall survival in prostate adenocarcinoma using ensemble techniques, Computers in Biology and Medicine, 189, 2025, <https://doi.org/10.1016/j.combiomed.2025.110008>.
 27. Ravindra Kumar, Ruchika Mehta, Anurag Bhatnagar, **Ilker Ozsahin**, Berna Uzun, Bandar Almohsen & Hijaz Ahmad. Numerical Study of Williamson Fluid Flow over a

Stretching Sheet with Newtonian Heating Embedded in a Porous Medium in Presence of Thermal Radiation and Heat Source/Sink. *J Nonlinear Math Phys* 32, 4 (2025).
<https://doi.org/10.1007/s44198-024-00258-1>.

28. Uppal R, Saeed U, Khattak ME, Khan AA, Uppal MR, Piracha ZZ, Khan MN, Shaikh D, Tariq U, Mahmood AR, Ali SS, Muhammad B, Tariq MN, Gilani SS, Ozsahin DU, Uzun B, **Ozsahin I**. Epidemiological analysis of Leishmaniasis prevalence in Pakistan during 2016-2023. *Braz J Biol.* 2025 Jan 27;84:e284742. doi: 10.1590/1519-6984.284742.
29. Z. Z. Piracha, U. Saeede, R. Uppal, M. R. Uppal, A. Ahmad Khan, M. Abdullah, K. Marih, A. Basra, S. S. Gilani, M. N. Tariq, D. U. Ozsahin, B. Uzun and **I. Ozsahin**. Prevalence and clinical profile of hepatitis C virus infections in multitransfused thalassemic patients in the capital twin cities of Pakistan . *Braz J Biol.* 2024, vol. 84, e28445. <https://doi.org/10.1590/1519-6984.284453>
30. Saeed U, Uppal R, Najmi MH, Fazal I, Khan AA, Piracha ZZ, Uppal MR, Ijaz HN, Ozsahin DU, Uzun B, **Ozsahin I**. Cutting-edge: bionanomaterial solutions in the battle against Severe Acute Respiratory Syndrome Coronavirus 2. *Braz J Biol.* 2025 Jan 27;84:e279564. doi: 10.1590/1519-6984.279564.

2024

31. D. U. Ozsahin, D. I. Emegano, L. R. David, B. Uzun and **I. Ozsahin**, "Evaluating ELISA for Prostate Cancer Detection: A Hybrid PROMETHEE-TOPSIS Approach Using Prostate-Specific Antigen Levels," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 433-438, doi: 10.1109/DeSE63988.2024.10911948.
32. E. P. Onakpojeruo, B. Uzun, L. R. David, **I. Ozsahin** and D. U. Ozsahin, "Selection Techniques in Genetic Algorithm," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 411-416, doi: 10.1109/DeSE63988.2024.10912015.
33. D. U. Ozsahin, D. I. Emegano, L. R. David, A. J. Hussain, B. Uzun and **I. Ozsahin**, "Global Life Expectancy Prediction Using Machine Learning Ensemble Techniques," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 423-427, doi: 10.1109/DeSE63988.2024.10912031.
34. N. Usanase, B. Uzun, L. R. David, D. U. Ozsahin and **I. Ozsahin**, "A Decision-Making Approach in The Clinical Diagnosis and Treatment of Vulva Cancer," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 370-374, doi: 10.1109/DeSE63988.2024.10911949.
35. N. Usanase, B. Uzun, L. R. David, D. U. Ozsahin and **I. Ozsahin**, "Application of Fuzzy PROMETHEE in the Analysis of Childbirth Techniques," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 364-369, doi: 10.1109/DeSE63988.2024.10911929.
36. N. Usanase, D. U. Ozsahin, L. R. David, B. Uzun, A. J. Hussain and **I. Ozsahin**, "Deep learning-based CT-scan image classification for accurate detection of pancreatic cancer: A Comparative Study of Different Pre-Trained Models," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 358-363, doi: 10.1109/DeSE63988.2024.10912050.
37. Natacha Usanase, A.G. Usman, Dilber Uzun Ozsahin, Leena R. David, **Ilker Ozsahin**, Berna Uzun. "Hybridized Paradigms for The Clinical Prediction of Lung Cancer," 2024

- 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 417-422, doi: 10.1109/DeSE63988.2024.10911964.
38. E. P. Onakpojeruo, B. Uzun, L. R. David, **I. Ozsahin**, C. C. Efe and D. U. Ozsahin, "Integrating ANFIS, ANN, & MLR with MCDM for Accurate Prediction of Lung Cancer for Improved Clinical Decision Support," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 445-450, doi: 10.1109/DeSE63988.2024.10912008.
 39. D. U. Ozsahin, D. I. Emegano, L. R. David, A. J. Hussain, B. Uzun and **I. Ozsahin**, "Machine Learning-Based Predictive Modeling of Mental Health Comorbidities," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 428-432, doi: 10.1109/DeSE63988.2024.10911997.
 40. E. P. Onakpojeruo, B. Uzun, L. R. David, **I. Ozsahin**, C. C. Efe and D. U. Ozsahin, "Evaluation of Bone Cancer Treatment Techniques," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 346-351, doi: 10.1109/DeSE63988.2024.10911950.
 41. Basil Barth Duwa, Efe Precious Onakpojeruo, Berna Uzun, Abir Jaafar Hussain, **Ilker Ozsahin**, Leena R. David "Ensemble Predictive Modeling for Dementia Diagnosis," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024, pp. 352-357, doi: 10.1109/DeSE63988.2024.10912022.
 42. Usanase, N., Uzun, B., Ozsahin, **I., Ozsahin**, D.U. (2024). Optimizing Melanoma Therapy Decision-Making with a Multi-criteria Analytical Approach. In: Aliev, R.A., Kacprzyk, J., Pedrycz, W., Jamshidi, M., Babanli, M., Sadikoglu, F.M. (eds) 16th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools – ICAFS-2023. ICAFS 2023. Lecture Notes in Networks and Systems, vol 1141. Springer, Cham. https://doi.org/10.1007/978-3-031-76283-3_11
 43. Efe Precious Onakpojeruo, Mubarak Taiwo Mustapha, Dilber Uzun Ozsahin, **Ilker Ozsahin**, Enhanced MRI-based brain tumor classification with a novel Pix2pix generative adversarial network augmentation framework, Brain Communications, 2024, fcae372, <https://doi.org/10.1093/braincomms/fcae372>
 44. D. U. Ozsahin, E. P. Onakpojeruo, S. Asir, **I. Ozsahin** and B. Uzun, "Comparison of EGFR, IL-13R α 2, and EGFRvIII Bio-Receptors for the Construction of Brain Cancer-Specific Biosensors," 2024 Advances in Science and Engineering Technology International Conferences (ASET), Abu Dhabi, United Arab Emirates, 2024, pp. 1-6, doi: 10.1109/ASET60340.2024.10708669.
 45. D. U. Ozsahin, D. Ikechukwu Emegano, B. Uzun and **I. Ozsahin**, "A Comparative Study on Male Breast Cancer Treatment Alternatives Using a Multi-Criteria Decision-Making (MCDM) Approach," 2024 Advances in Science and Engineering Technology International Conferences (ASET), Abu Dhabi, United Arab Emirates, 2024, pp. 1-5, doi: 10.1109/ASET60340.2024.10708657.
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Oral/Poster Presentations

1. E. P. Onakpojeruo, D. U. Ozsahin, B. Uzun, and **I. Ozsahin**. Comparative evaluation of machine learning models for dementia prediction. Alzheimer's Association International Conference, Toronto, Canada, 2025.
2. E. P. Onakpojeruo, D. U. Ozsahin, B. Uzun, and **I. Ozsahin**. Enhancing dementia classification using denoising diffusion models and conditional deep convolutional neural networks. Alzheimer's Association International Conference, Toronto, Canada, 2025.
3. D. U. Ozsahin, D. I. Emegano, L. R. David, B. Uzun and **I. Ozsahin**, "Evaluating ELISA for Prostate Cancer Detection: A Hybrid PROMETHEE-TOPSIS Approach Using Prostate-Specific Antigen Levels," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024
4. E. P. Onakpojeruo, B. Uzun, L. R. David, **I. Ozsahin** and D. U. Ozsahin, "Selection Techniques in Genetic Algorithm," 2024 17th International Conference on Development in eSystem Engineering (DeSE), Khorfakkan, United Arab Emirates, 2024
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