

Special Issue

Machine Learning in Chronic Diseases

Message from the Guest Editors

Chronic diseases, such as diabetes, cardiovascular disease, cancer, and dementia, are on the rise, posing a significant global health burden. These conditions are increasingly prevalent, complex, and costly to manage, straining healthcare systems worldwide.

Machine learning (ML) and artificial intelligence (AI) offer promising solutions to these challenges. In primary care, ML can revolutionize disease prevention and detection, enabling personalized health monitoring and efficient resource allocation. In secondary care, ML can enhance diagnostic accuracy, optimize treatment plans, predict patient outcomes, and support complex clinical decision-making. However, realizing the full potential of ML in healthcare is challenging.

This Special Issue invites researchers to contribute innovative studies that explore the application of ML in various aspects of chronic disease management. We welcome submissions that address the following:

- Early detection and risk stratification;
- Patient monitoring and personalized care;
- System-wide optimization and resource allocation;
- Ethical considerations and fairness in ML applications;
- Integration of ML into real-world healthcare workflows.

Guest Editors

Dr. Habibollah (Habib) Pirnejad
Amsterdam University Medical Center, 1105 AZ Amsterdam, The Netherlands

Dr. Amin Naemi
Department of Biology, University of Southern Denmark, 5230 Odense, Denmark

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

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