

## Special Issue

# Predictive Modelling in Healthcare

### Message from the Guest Editor

One individual's biology, behaviour, and context can nowadays be precisely captured into new prospective data generated in the context of ad hoc cross-sectional or longitudinal clinical studies. Research questions defined upon a specific dataset and pertaining to the prediction, either diagnosis or prognosis, of health outcomes are formulated as machine learning (ML; inclusive of classical and deep learning) regression or classification multivariate functions of biomedical data. In this context, the aim of this Special Issue is to present prediction model studies of health outcomes, tapping into systematic data quality assessment methods, novel ML architectures, robust cross-validation or external validation procedures and proper correctness and model relevance metrics. Special attention shall be placed on studies leveraging multimodal ML, multiscale modelling, adaptive learning of dynamic systems, and sparse ML. In this direction, studies focusing on techniques for testing ML systems, as they are applied in predictive modelling paradigms in healthcare, shall be featured here.

### Guest Editor

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### Deadline for manuscript submissions

closed (31 August 2023)



## Diagnostics

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### Editor-in-Chief

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