

## SPECIAL SECTION/ISSUE

**Title****Future Perspectives for AI in Complex Health Modelling****Editors****Prof. Marcin Wozniak**

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**About**

The world has always been faced with many health issues. The effective management of these problems has been accomplished through mathematical and statistical modelling. In this field modelling is advancing quickly as a result of its major impact and outcomes. Modelling is significant because it enables researchers to apply their mathematical and statistical ideas to actual issues. Artificial intelligence-based mathematical modelling techniques are used to solve complex problems and build intelligent systems. AI techniques have found applications in many domains, including healthcare and medical research. They have been increasingly used to develop computer-aided disease detection and computer-aided diagnosis systems to help healthcare professionals make more accurate diagnoses, plan and deliver better-quality and safer treatments, and to ultimately lead to better healthcare outcomes. Other applications include personalized medicines, drug discovery, medical imaging diagnosis, outbreak prediction, mental health, physiological signal processing, health informatics, and smart health records.

**Scope**

This special publication focuses on demonstrating cutting-edge mathematical and statistical modelling in health sciences, as well as epidemiology and methods of analysing them. We invite authors to contribute interdisciplinary papers in mathematical and statistical modelling for communicable and non-communicable disease predictions. Original research and review articles are welcome. The scope encompasses numerous scientific domains covering a large range of subjects, including (but not limited to) *applications of artificial intelligence and mathematical modelling* in the following:

- disease diagnosis
- medical image processing
- mental health
- drug classification and discovery
- medicine
- health informatics.

**Important dates**Submission deadline: **15 February 2024**Notification of acceptance: **15 May 2024**Possible publication: **2024****Information for authors**

- The papers should meet high quality journal manuscript guidelines, in terms of research results, editorial quality, and language. Poorly written manuscripts will not be considered for review.
- The submission must be done online at [www.amcs.uz.zgora.pl/?action=submission](http://www.amcs.uz.zgora.pl/?action=submission).  
**Important!** In your paper file, please put as the first keyword capitalized and asterisked \*AI+MATH\*.
- The papers should be prepared with the journal LaTeX template, following strictly the guide for authors available at [www.amcs.uz.zgora.pl/?action=guide](http://www.amcs.uz.zgora.pl/?action=guide).
- The submissions will undergo a review process, following the journal rules.
- The final decision will be made by the journal's Editor-in-Chief and Guest Editors.
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**Technical assistance**

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