

## Special Issue

# Explainable AI for Healthcare Informatics: Data or Algorithm/Model?

### Message from the Guest Editor

Typical explainable AI aims at describing an AI model, its expected impact, and potential biases. However, the question is what if we have used data samples (e.g., numbers, texts, and images) that are not well interpreted and/or explained. In such a case, models may not turn in enough explainability except decision-making: binary or multi-class. In healthcare informatics, AI models expect to use/employ data that preserves respective clinical significance. This statement holds true for data augmentation in healthcare – do we have augmented data with clinical significance? In this special issue, authors are encouraged to submit their research articles (case study, original research article, and review/survey) with an aim of explainable AI – data or model. Original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Explainable AI
- Machine learning models: shallow, deep learning, and active learning
- Big data analytics and data visualization
- Applications: clinical text analytics, biomedical imaging, healthcare informatics and engineering, precision medicine, IOT, blockchain, and many more.

### Guest Editor

Prof. Dr. KC Santosh

Applied AI Research Lab, Department of Computer Science, The University of South Dakota, Vermillion, SD 57069, USA

### Deadline for manuscript submissions

closed (31 March 2024)



## Healthcare

an Open Access Journal  
by MDPI

Impact Factor 2.7  
CiteScore 4.7  
Indexed in PubMed



[mdpi.com/si/167522](https://mdpi.com/si/167522)

*Healthcare*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[healthcare@mdpi.com](mailto:healthcare@mdpi.com)

[mdpi.com/journal/  
healthcare](https://mdpi.com/journal/healthcare)





# Healthcare

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.7  
CiteScore 4.7  
Indexed in PubMed



[mdpi.com/journal/  
healthcare](https://mdpi.com/journal/healthcare)



## About the Journal

### Message from the Editor-in-Chief

*Healthcare* is an international, scientific, peer-reviewed, open access journal on health care systems, industry, technology, policy, and regulation, and is published semimonthly online by MDPI. Ocular Wellness & Nutrition Society (OWNS) is affiliated with Healthcare and its members receive discounts on article processing charges.

---

### Editor-in-Chief

Prof. Dr. Lorraine S. Evangelista

Sue & Bill Gross School of Nursing, University of California, Irvine, CA  
92697, USA

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE and SSCI (Web of Science), PubMed, PMC, and other databases.

#### Journal Rank:

JCR - Q2 (Health Policy and Services) / CiteScore - Q1  
(Leadership and Management)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the first half of 2025).