

## Special Issue

# Explainable Artificial Intelligence in Healthcare

### Message from the Guest Editors

Artificial intelligence (AI) is transforming healthcare by supporting more accurate diagnoses, personalized treatments, and timely clinical decision-making. Yet, the “black box” nature of many AI systems raises concerns about transparency, reliability, and trust in patient care. Explainable artificial intelligence (XAI) has, therefore, emerged as a crucial step toward ensuring that AI-driven tools are interpretable, accountable, and safe for use in clinical practice. This Special Issue focuses on the real-world application of XAI in healthcare. We are particularly interested in studies that demonstrate how explainability can enhance patient safety, support clinical adoption, improve decision-making processes, and address ethical or regulatory considerations in real healthcare settings. We welcome original research and reviews that examine the role of XAI across various areas of healthcare delivery, including but not limited to interpretable AI for diagnosis and prognosis, XAI in medical imaging and decision support systems, patient-centered applications that foster trust and communication, and evaluations of how transparency impacts clinical workflows and outcomes.

### Guest Editors

Prof. Dr. Peter Kokol

Dr. Jernej Završnik

Dr. Bojan Žlahtič

### Deadline for manuscript submissions

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## Healthcare

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

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## About the Journal

### Message from the Editor-in-Chief

*Healthcare* is an international, peerreviewed, open access, multidisciplinary journal. Original research articles, short communications, review articles, and symposium highlights are welcomed.

*Healthcare* hopes to influence global health and disease aspects, and hopes to gain high visibility and acceptance by the scientific and healthcare community and will dedicate itself to covering special and specific topics in special issues.

We would be pleased to welcome you as one of our authors.

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### Editor-in-Chief

Prof. Dr. Lorraine S. Evangelista

Louise Herrington School of Nursing, Baylor University, Dallas, TX  
75246-1754, USA

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