Development and Application of Data Privacy Protection in Healthcare

Guest Editors:

Prof. Dr. Murat Sariyar

Engineering and Information Technology Institute of Medical Informatics, Bern University of Applied Sciences, Höheweg 80, 2502 Biel, Switzerland

Prof. Dr. Matthias Templ

School of Business, University of Applied Sciences and Arts Northwestern Switzerland, 4600 Olten, Switzerland

Deadline for manuscript submissions:
30 June 2024

Message from the Guest Editors

Implementing advanced data security measures is indispensable in various industries, among which healthcare occupies a major position because it utilizes highly sensitive patient information. With the popularization of smart medical devices, such data is being collected in an exponentially accelerated manner. Protecting this kind of data is important in treatment as well as research contexts. In the former case, trust is secured, allowing an increase in the range of data types patients are willing to provide for efficient treatment. In the latter case, secondary data analysis is facilitated, which allows the furthering of knowledge.

There have been significant developments in data privacy protection in healthcare in recent years. 1) Encryption and secure storage. 2) Access control and user authentication. 3) Audit trails and monitoring. 4) Anonymization. Despite these measures, the healthcare system remains an important target for cyber attackers. Faced with such risks, data privacy and security protection have to be adapted to match the improved attacker resources.

We welcome high-quality submissions that demonstrate insights on healthcare data protection in this Special Issue.

Special Issue

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us