Advances in Mathematical Methods for Machine Learning Algorithms for Computer Aided Diagnostic Systems

Guest Editors:

Dr. Seungmin Rho
Department of Industrial Security, Chung-Ang University, Seoul 06974, Republic of Korea

Dr. Damien Sauveron
Faculty of Sciences and Techniques, XLIM (UMR CNRS 7252 / University of Limoges), 123, Avenue Albert Thomas, 87060 Limoges, CEDEX, France

Deadline for manuscript submissions:
closed (31 March 2021)

Message from the Guest Editors

Computer-aided diagnosis (CAD) systems have gained a great deal of attention in recent years. Medical-imaging-based CAD systems are most commonly in use to help physicians. These systems can help to extract regions of interest from any imaging modality and can identify different diseases, like brain tumors, Alzheimer's disease, Parkinson's disease, lung nodules, cerebral microbleeds, and many more. These systems can be used to detect the above-mentioned diseases at an early stage for better and effective treatment. This makes these systems more critical and requires more reliable and accurate diagnosis. Machine learning algorithms have recently seen wide use in CAD systems. The advances in machine learning algorithms have proved helpful to improve the performance of CAD systems. In this way, this Special Issue focuses on the use of current advances in machine learning for medical imaging modalities. This Special Issue provides a platform for researchers from academia and industry to present their novel and unpublished work in the domain of medical imaging. This will help to foster future research in emerging fields of medical imaging and its related fields.

mdpi.com/si/39227

Special Issue

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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), RePEc, and other databases.
Journal Rank: JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Contact Us