

Special Issue on  
**Advances in Feature Transformation based Medical  
Decision Support Systems for Health Informatics**

# CALL FOR PAPERS

Despite the tremendous growth and progress in technology, the recent crisis caused by COVID-19 has shaken the world. It has highlighted the importance of artificial intelligence (AI) in health informatics (health monitoring and disease detection). In future, to handle such crisis, there is a dire need for the development of robust and efficient health monitoring systems using AI driven medical decision support systems (DSSs). Feature transformation (feature extraction and feature selection) based methods have the potential for the development of such robust medical DSSs. Although, there has been extensive research on the development of automated medical DSSs for health monitoring and disease detection using machine learning and feature transformation approaches, the applicability of the integration of feature transformation methods with machine learning especially deep learning is yet to be explored.

The main objective of this Special Issue is to provide a platform for AI researchers and healthcare practitioners to exchange and publish original research and review articles focusing on advances in the domain of feature transformation-based medical DSSs.

Potential topics include but are not limited to the following:

- ▶ Machine learning and deep learning-based health monitoring systems
- ▶ Integrated medical decision support systems based on feature selection and machine learning models
- ▶ Integrated medical decision support systems based on feature extraction and machine learning models
- ▶ Novel feature selection methods and their integration with medical DSSs
- ▶ Novel feature extraction methods and their integration with medical DSSs
- ▶ Deep learning-based feature transformation and application in medical DSSs
- ▶ Application of feature selection based medical DSSs
- ▶ Application of feature extraction based medical DSSs
- ▶ Statistical model-based feature selection for efficient medical DSSs
- ▶ Deep learning-based feature transformation using autoencoders for robust medical DSSs
- ▶ Deep transfer learning-based automated health monitoring and disease detection systems

Authors can submit their manuscripts through the Manuscript Tracking System at <https://review.hindawi.com/submit?specialIssue=689217>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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