

### Editor's Desk



**Dr. A. Muruganathan**  
Chief Editor

#### **Role of artificial intelligence in healthcare**

Artificial intelligence is the science and engineering of developing the machines that are capable of simulating human thought processes and learning based on applying complex algorithms and advanced computational power to extremely large amounts of data.

The methods of artificial intelligence are prone to be an increasingly reliable tool for prediction and classification tasks in healthcare management and clinical research. The role of artificial intelligence has been increasingly recognized in healthcare and medical applications because of high reliability and ease. Artificial intelligence techniques such as artificial neural networks, Fuzzy Expert systems are increasingly used in disease diagnosis, patient monitoring, disease risk evaluation, predicting the effect of new medicines, and robotic handling of surgeries.

Machine learning and deep learning are two common types of artificial intelligence that are important and capable of solving problems with the different strategies and approaches.

#### ***AI applications in medicine***

- in disease detection and diagnosis
- Personalized disease treatment
- in medical imaging
- Clinical trial efficiency
- Accelerated drug development

#### ***Benefits of AI in medicine***

- Informed patient care
- Error reduction
- Reducing the costs of care
- Increasing doctor-patient engagement
- Providing contextual relevance
- Artificial intelligence cannot replace a good physician.
- Good physician with knowledge about artificial intelligence will be better than a physician who doesn't have a knowledge of artificial intelligence



## *The Medical **Bulletin***

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The challenges that the COVID-19 pandemic created for many health systems also led many healthcare organizations around the world to start field-testing new AI-supported technologies, such as algorithms designed to help monitor patients and AI-powered tools to screen COVID-19 patients.

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***Best wishes***

**DR. A. MURUGANATHAN  
CHIEF EDITOR**