



Journal of Medical Signals and Sensors (JMSS)

ISSN-Online: 2228-7477- Open Access

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Special issue on Application of Advanced Techniques in Healthcare for Sustainable Development

In recent decades, the importance of sustainable development majorly relies on the healthy and productive life of human beings in the environment. The prime goal of both developed and developing countries is to attain sustainable development, which will remain a considerable challenge in enfeebling illness among people and poor population health. Thus, it is necessary to focus on all healthcare systems across the globe to seek sustainable development. Over the past decade, advances in healthcare notably decrease the mortality rates and aids in sustainable living. The key to sustainable development always relies on the emergence of new advances and innovations in every sector, specifically in healthcare industries, ensuring stable living by reducing the risk factors.

The need for sustainable development is always critical, and that could be made possible by ensuring certain factors like practical safety, waste disposal protocols, energy consumption, and water preservation. The research investigates numerous advancements in healthcare industries that help to achieve sustainability to a more considerable extent. Upgrades include implicating electronic health records, mobile health, telemedicine, sensors, wearable devices, remote monitoring applications, and wireless communication, which drive the healthcare industries for sustainable development. Ongoing advances in healthcare during pandemics indulge the applications of AI (Artificial Intelligence) chat-bots, robotics, telemedicine, virtual health, 3D printing, and precision medicine, enabling safer and secure contactless treatments for patients and revolutionizing sustainable development in the healthcare industries. Recent breakthroughs in treatments using medical advances are boundless such as the development of a new class of migraine medications to ensure better treatments for migraine patients, the implication of PARP (poly adenosine diphosphate-ribose polymerase) for effective cancer treatments, use of smart pacemakers or defibrillators for ensuring the safety of patients. Advances described above in healthcare primarily target for sustainable development of all healthcare industries across the globe.



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However, apart from many advances in healthcare that provide sustainable development, there are certain limitations and drawbacks to overcome. The future challenges and constraints include the availability of high-cost treatments, the chance of technological failures in advanced medical devices, the possibility of organ damages, and the accidental failure of automatic machine treatments. Rural populations tend to have limited access to health care and treatments which needs immediate attention today and for a sustainable future. Overall, promoting the well-being of public is essential for the growth of sustainable healthcare. Researchers and practitioners are most invited to present a practical research work against this background. The special issue provides academicians and researchers to discuss various secure methodologies for using advances in healthcare to attain sustainable development.

Topics of inters:

- **Emerging trends in healthcare industries for sustainable development**
- **Healthcare: Trends, Advances and perspectives**
- **Frontier applications of advanced healthcare units for achieving a sustainable development**
- **Future challenges and objectives in implicating advanced features of healthcare for gaining sustainable development**
- **Sustainable development: Current and future challenges for healthcare applications**
- **Recent trends in involving advances of healthcare sectors for sustainable development**
- **Limitations and challenges in the perspectives of sustainable development**



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- **Commercial perspective: Advances in healthcare for sustainability**
- **Insights of healthcare advances to develop a sustainable environment**
- **Contribution of governmental and non-governmental organizations to enhance the advance features of healthcare units to attain sustainability**

Important Dates:

- ✓ **First Submission Deadline: 16 September, 2023**
- ✓ **Notification of First Round Decision: 20 November, 2023**
- ✓ **Revised Paper Submission Deadline: 30 January, 2024**
- ✓ **Notification of Final Decision: 25 March, 2024**

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NOTE: Authors should mention in the cover letter which special issue their article is related to.