Tentative Outline

Title of the Thematic Issue: Interdisciplinary applications: data and AI for bio technology, medical technology, and human life for in the real worlds.

> *Editors:* Keun Ho Ryu, Nipon Theera-Umpon, Kwang Sun Ryu

- **Scope of the Thematic Issue:**

Interdisciplinary and their applications in technologies such as Artificial intelligence (AI), Databases, Bio, and Medical research is now not only the hottest research topic and a new challenging and practical research but also close and very important to our life. These researches are most promising and an important technical field that enriches our health as well as our future life.

Therefore, the goal of this special thematic issue is to explore how emerging technology solutions and real-world applications in human life, disease, cancer, healthcare, and hospitals can help human beings to lead healthy lives as well as enhance wellbeing. Specifically, innovative contributions that either solve or advance the understanding of issues related to emerging technologies as well as interdisciplinary research, and applications, also as well as practical experiences in the real world are very welcome. This special thematic issue also seeks to not only present solutions that combine state-of-the-art theoretical approaches like computational biology, data and computer software, model-based approaches for exploiting the huge health and bio data, and hospital, and human life data resources available, but also new methods that more generally describe the successful application of emerging technologies, and sciences and engineering to issues such as disease, cancer, knowledgebase, databases, a sensor device, and user interfaces, software design, and system implementation in the medical domain, as well as the healthcare, biology, and wellbeing domains.

Keywords: Disease, Healthcare, Database and Big Data; Bio and Medical, Human Life, Emerging and Interdisciplinary Technology

Sub-Topics:

The sub-topics to be covered within the issue should be provided:

Machine and deep learning approaches for disease, cancer, and health data

Decision support and recommend systems for healthcare and wellbeing

Regression and forecasting for medical and/or biomedical signals

Medical signal and image processing and techniques in healthcare and wellbeing systems

Explainable AI and AI applications technologies

Platforms in medicine and healthcare and biomedical and text mining applications

Interdisciplinary technologies: data, mining, AI, bio and medical, knowledge, and healthcare

Emerging technology and theory, system, and technique in the human life, disease, cancer, healthcare, and hospital, etc.

Schedule:

Thematic issue submission deadline:

- ✧ Manuscript submission deadline: November 30, 2022
- ✧ Peer reviewer due: December 15, 2022
- ✧ Revision due: January 5, 2023
- ✧ Announce of acceptance by guest editors: January 15, 2023
- ✧ Final manuscript due: January 31, 2023

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