

JIPS Special Issue on

Enabling intelligence beyond cloud with Biomedical signal processing and Health informatics

Nowadays, it is increasingly important to use biomedical signals in a variety of distributed applications, and the medical research process makes use of them to analyse their key aspects. In critical situations where effective treatment of multiple diseases is required, applying biomedical signal processing with rapid action is possible. The same procedure may be carried out with any wireless module, but because biomedical signals processing is used directly to monitor bodily states, it is preferable to apply it across all the distribution lines with a cloud infrastructure. Due to the use of voltage stability, the primary benefit of the cloud infrastructure is that knowledge will be automatically disseminated to other users. Health informatics, which is concerned with the procurement, transmission, encoding, handling, information extraction, and use of healthcare data, has become a vibrant area of integrative efforts to determine how to address these unmet healthcare needs, particularly for the automatic detection and treatment of preventable diseases. In particular, gathering data about one wellbeing through covert modulation and wearable electronics is regarded as the foundation of health informatics.

The development of preferable personal evaluation methods to screen moderate contingent service users at an early stage and the encouragement of service users identified at cardiovascular risk to adhere to holistic existence styles are all made possible by the innovative trends in cardiac health informatics, which relate to the incorporation, computation, integration, and perception of stochastic and collaborative cardiovascular health information. Research, development, and application of systematic and algorithmic methods towards data processing challenges are presented in Smart Cognitive Computing in Biomedical and Health Informatics. This includes assessing emerging trends in health informatics and software-assisted medical opinion. The rising prevalence of degenerative illnesses and secondary infections are among the most serious challenges confronting modern society. Incorporated biomedical signal processing on increasing intensity provides the potential for moderate signal functions as well as computational resources, which entails computations on low-rate research parameters that are very simple and extremely sequential. The incorporation of technology and digitalization in healthcare is the domain of health informatics.

This special issue is intended for users of single- and multi-core processor structures for biological signal processing. Authentic computation and resource efficiency are the main design goals. The distinctive characteristics of biomedicine need to be considered in health informatics and communication research. Health information processes and digital preservation creation can take into account the information requirements and usage patterns of all users.

Topics of interest include, but are not limited to, the following:

1. An explanation of Principal component analysis and its significance in biological signal processing
2. Rehabilitation and transformation of public health using informatics in the knowledge economy
3. A system for processing biological signals with extremely low energy and near-threshold
4. Stochastic derivative calculus in creation of digital filters for biomedical signal processing
5. Analog wavelet filtering for implantable devices in ultra-low-power biomedical signal processing

6. An inspiration for developing health informatics as well as information technology
7. The analysis of the health informatics adoption model for technology
8. Medical decision-making process analysis using cognitive techniques to health informatics
9. Medical decision-making practice principles using cognitive techniques to health informatics
10. An overview of association rule mining techniques in health informatics
11. Healthcare technology informatics: present trends and upcoming issues in usability and accessibility

SUBMISSION GUIDELINE

Papers must be submitted to the Manuscript Link service :

<https://www.manuscriptlink.com/journals/jips>

It is important that authors should select "***JIPS Survey / Special Issue***" and "***Enabling intelligence beyond cloud with Biomedical signal processing and Health informatics***" when they reach the "Basic Information" step in the submission process. Before submitting papers, you need to read the ***JIPS submission guideline***.

Notification of APC

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- Additional Fee: KRW 100,000 (US\$100) per page (within 4 pages)
- Remark: The size must be within 11 pages including a photo and a profile (refer to the sample paper format).

Tentative Timelines for Submission and Review Process:

Submission Deadline of Papers	-	July 20, 2023
Authors Notification Date	-	September 25, 2023
Revised Papers Due Date	-	December 10, 2023
Final notification Date	-	March 5, 2024

Lead Guest Editor Details:

Dr. Chi-Bao Bui

School of Medicine,

Vietnam National University,

Ho Chi Minh City, Vietnam.

Email: bcbao@ump.edu.vn, cbb6283@gmail.com

Google Scholar: <https://scholar.google.com/citations?user=NR00wNEAAAAJ&hl=en>

Co-Guest Editor Details:

Dr. Nguyen Thi Hiep

Associate Professor

School of Biomedical Engineering,

International University,

Ho Chi Minh City 700000, Vietnam.

Email: nthiep@hcmiu.edu.vn

Google Scholar:

<https://scholar.google.com/citations?user=H31-ymcAAAAJ&hl=en>

Dr. Minh Nguyen Anh Ho

Department of Dermatology,

Yale University,

New Haven, CT 06520, USA

Email: minh.ho@yale.edu

Google Scholar:

<https://scholar.google.com/citations?user=zTPLn4AAAAAJ&hl=en>