

## Tentative Outline

### Special/Thematic Issue for the journal "Current Pharmaceutical Design"

#### Title of the Thematic Issue: Machine learning for the household based health monitoring services

Guest Editor: *Dr. Bingo Wing-Kuen Ling*

**Scope of the Thematic Issue:** As the average age of the world population is increasing, the national demand on the medical services is very large. Hence, it is required to develop the household based health monitoring services. To address this issue, the human signals are acquired. Then, the signals are denoised, detrended and analyzed. Next, the features are extracted and the machine learning algorithms are applied for monitoring the health indices. This special issue is to call for the papers for collecting the new techniques for performing the denoising, the detrending and the analysis of the human signals as well as for the the features extraction and the machine learning.

**Keywords:** Selection techniques for health monitoring, processing techniques for health monitoring.

#### Sub-topics:

- Time frequency analysis techniques for health monitoring
- Denoising and detrending techniques for health monitoring
- Feature extraction techniques for health monitoring
- Feature selection techniques for health monitoring
- Feature processing techniques for health monitoring
- Classification techniques for health monitoring
- Regression techniques for health monitoring
- Small data learning techniques for health monitoring

#### Tentative titles of the articles

- Mental health monitoring via artificial intelligence approach
- Sleep quality analysis via singular spectrum analysis
- Time frequency analysis based health monitoring system

#### Schedule:

- ✧ Thematic issue submission deadline: 31 March 2023

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