A medium to disseminate novel experimental and theoretical research results in the field of biomedicine, biology, clinical, rehabilitation engineering, medical image processing, biocomputing, D2H2, and other health related areas.

Call for Papers

SPECIAL ISSUE ON

“Intelligent Learning Technologies for Healthcare Applications”

Artificial intelligence mastered over every technology and adapted to every fields of engineering especially in medical practices. The different intelligent tools like Artificial Neural Network (ANN), Fuzzy and ANFIS (Adaptive Neuro-Fuzzy Inference System), and optimization tools like Genetic Algorithm (GA), Particle Swarm Optimization (PSO), Support Vector Machines (SVM) is used to design and simulate real time performance. The Artificial Intelligence (AI) play a vital role in the design of innovative medical devices, diagnosing the condition and ailment of the medical images, understand the target and delivery of drugs in biotechnology. The adoption of AI tool helps the medical practices to be safer and more accurate. This vitality is not seen on the medical devices that require heterogeneous control using the standard control technologies and algorithms.

The twofold advantage of concatenating intelligent/hybrid intelligent technologies with the existing control can help the devices to function safer and more precise. The intersection between the medical devices and intelligent technologies is deemed to give substantial result in the health care applications.

The complications involved in the designing/ supervision of the health systems can be effectively overcome by adopting suitable intelligent tools.

The proposed special issue invites academicians and researchers to report the progress and results in the design, development of hybrid technologies for health applications.

The contribution can be from the following topics but are not limited.

1) Signal processing for biomedical imaging system.
2) Monitoring and control of biomedical signal.
3) Monitoring and control of biomedical imaging.
4) Analysis of neurological using artificial intelligence.
5) Intelligent technologies for heart rate dynamic analysis.
6) Cardiovascular analysis using intelligent technologies.
7) Modeling of physiological system.
8) Hybrid intelligent technologies.
9) Ultrasound Imaging systems
10) Artificial Neural Network techniques for medical image processing
11) Deep learning based biomedical image processing
12) Fuzzy and ANFIS for biomedical signal processing
13) Genetic Algorithm for biomedical applications
14) Particle Swarm Optimization for image optimization
15) Support Vector Machines for classification of biomedical images
16) Magnetic resonance imaging
17) Bio signal processing

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Important Deadlines (Tentative)

**Deadline for Submission of manuscript:** Dec. 31, 2020
**Notification of review results:** Jan. 15, 2021
**Final acceptance notification:** Mar. 10, 2021
**Final paper submission:** Mar. 25, 2021
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