Special Issue

Smart Healthcare: Artificial Intelligence with Applications in Biomedicine

Call for Papers

Artificial intelligence techniques have been applied to a wide spectrum of applications such as big data, information retrieval, computational finance, robotics, bioinformatics, computer vision, and image processing. With the advancement of computing power, sophisticated computational intelligence methods gained popularity in converting imagination into reality. Conventional statistical and mathematical methods continue to play important roles in healthcare while new emerging technologies such as machine learning and data mining have established reputations in solving complex and challenging problems. Applying advanced artificial intelligence techniques on biomedical applications provides numerous opportunities for better healthcare delivery.

Biomedical research is a broad topic. Areas such as bioimaging and bioinformatics have a long history of using advanced computational approaches for problem solving. In comparison, it is only of recent that interest in adopting artificial intelligence techniques is heightened in areas such as disease diagnosis and health services research. This special issue aims at reporting the latest development on smart healthcare where artificial intelligence is implemented.

Topics of interest include but are not limited to:
- Artificial intelligence in medical decision making
- Artificial intelligence in applied operational research for healthcare
- Bioinformatics and health informatics
- Biomedical signal processing
- Big data analytics in healthcare
- Clinical decision support systems
- Computational modeling in health services research
- Intelligent hospital information system
- Intelligent medical devices and sensors
- Intelligent circuits and systems for healthcare
- Medical image analysis and understanding

Submission Guidelines

Prospective authors are invited to submit high quality research papers that have not been submitted, accepted or published. The manuscript should be prepared according to the author guidelines and submitted online at http://www.editorialmanager.com/aihc/default.aspx
and select Article Type as "**S.I. : Smart Healthcare: Artificial Intelligence in Biomedicine**".

All submitted manuscripts will be reviewed and evaluated based on the relevance, originality, novelty, and presentation. More information can be referred to the website of Journal of AIHC
www.springer.com/engineering/computational+intelligence+and+complexity/journal/12652

Timeline for the Special Issue

Manuscript submission deadline: March 15, 2018
First reviews completed deadline: June 15, 2018
Revised manuscripts deadline: July 15, 2018
Final acceptance deadline: October 15, 2018
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