Artificial Intelligence in Health Monitoring and Diagnosis: AI Meets Conventional Models

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Message from the Guest Editor

Dear Colleagues,

AI has revolutionized the medical industry and has become an unstoppable force, delivering numerous benefits. However, even in the presence of huge amounts of data collected by sensors, IoT, and imaging devices, AI often fails when applied to unknown data. For example, many neural networks are able to find signs of cancer in mammograms but cannot tell the difference between a rectangle and a triangle. Therefore, this Issue invites research on diagnostic and monitoring systems that combine AI with applications representing different aspects of human intelligence. Papers could include topics such as the hybrids of the neural networks and super pixels or deep learning and level-set methods in image processing, i.e., when conventional models meet AI.

We accept research articles, position papers, short communications, critical reviews, and comments. Papers may concern (but are not limited to) AI and AI hybrids for health monitoring and diagnosis, medical image segmentation, pattern recognition, data fusion, data mining, transfer learning, deep reinforcement learning, genetic and biologically inspired algorithms, artificial life, and edge and cloud computing.

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Special Issue

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Message from the Editor-in-Chief

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