Computational biomarker detection and analysis

Guest Editor

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Message from the Guest Editor

Dear Colleagues,

All diseases are usually classified further according to the diagnosis so that therapies may be tailored to the particular clinical situation. The uncertainties may be about the accuracy of available diagnostic tests, the natural history of diseases, the effects of treatment in a patient or the effects of an intervention in a group or population as a whole. With such complicated environment, it can be difficult to comprehend all options "in our heads". Recently, the widespread use of computers makes it easy to collect many medical data from a diverse range of sources. Indications show that computational intelligence techniques have given rise to new forms of clinical support by enabling the notion of medical informatics, but also because of doubts as to their quality and trustworthiness. However, these biomedical data and events make complicated clinical management an actual evaluating challenge. To discuss this matter and apply advanced methods in order to better understand and to improve health care, which via the prediction, diagnosis, treatment, and prognosis of disease in human beings. This special issue spans theoretical, practical, and technical issues in biomedical informatics and clinical science, especially on the disease biomarker detection and analysis. Research on applications of prevention, prediction and prognosis topics are appropriate for this special issue. We look forward to contributions from academicians, researchers, and educators worldwide.

Prof. Quan Zou and Prof. Chen Lin

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