Machine Learning and Big Data in Psychiatric and Sleep Disorders

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Message from the Guest Editor

A variety of psychiatric and sleep disorders including, but not limited to, depression and insomnia are quite common and greatly impair the quality of life. The current diagnosis and the prediction of prognosis in psychiatric and sleep disorders largely depend on the clinician's judgment, which is made based on the clinical characteristics, DSM system, and polysomnography, among other factors. Since the underlying neurobiology and etiology is diverse, however, the current diagnostic and prognostic schemes in psychiatry are in need of improvement.

The algorithms developed from machine learning and big data provide new hope to address these issues. Machine learning is based on individual-level analysis, which enables us to predict the development and prognosis of a disease, attracting substantial attention in the field of psychiatry and sleep medicine. Big data has also been providing opportunities for new insights that have not previously been achieved through research on individual datasets.

The forthcoming Special Issue focuses on machine learning and big data in psychiatric and sleep disorders.

Special Issue

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Message from the Editor-in-Chief

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