Artificial Intelligence Applications in Genetics and Genomics

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Deadline for manuscript submissions:
closed (31 May 2021)

Message from the Guest Editor

Dear Colleagues,

We welcome reviews, original articles, and short communications covering the development or application of machine learning (ML) and artificial intelligence (AI) for genetic or genomic data analysis. In particular, we are seeking showcases where traditional approaches fell short either in gaining insights or processing the data and subsequently new ML or AI approaches had to be developed. Data analysis domains may include omics data analysis (genomics, transcriptomics, methylomics), ML/AI-based clinical or agricultural association studies for diseases or traits, genome engineering or synthetic biology applications, as well as biological feature prediction or sample classification approaches.

This Special Issue showcases trailblazing software and innovative analytics to inspire the increased use of ML and AI in genetics and genomics. We look forward to your contributions and are happy to offer support around topic clarification or enabling reproducible research practices (e.g., through cloud usage).

Dr. Denis Bauer
Guest Editor

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SpecialIssue

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Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

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