Editorial

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Biographical notes: Zhao Li received his PhD in Computer Science from the University of Vermont with the Excellent Graduate Award in 2012. He is currently an Adjunct Professor with Zhejiang University and Zhejiang Lab. He is also the Co-Founder of Hangzhou Yugu Technology Co, Ltd., Hangzhou, China. He has published several papers in prestigious conferences and journals, including the *World Wide Web Conference*, *IEEE International Conference on Data Engineering*, *International Conference on Very Large Data Bases*, *IEEE Transactions on Knowledge and Data Engineering*, and so on. His research interest lies in AIoT, big model, and large-scale graph computing.

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Bioinformatics is an interdisciplinary field involving computational and statistical techniques to analyse and interpret biological data. With the rapid advancement of high-throughput technologies, such as genomics and proteomics, biological data has grown exponentially, creating a need for sophisticated data mining and knowledge discovery techniques. In the past decade, bioinformatics has grown rapidly and become a vital part of scientific research. The rapid progress of related biological disciplines and advances in high-performance computing and data management systems have also led to an increasing amount of bioinformatics data. Data mining and knowledge discovery are powerful techniques for analysing such data types.

This special issue is aimed at encouraging the usage of bioinformatics among the younger generation. The knowledge discovery project involves identifying data mining tools that can be used for collecting information based on detailed bioinformatics analyses and then making data accessible through web or mobile devices. The future generations of researchers in data mining and knowledge discovery in bioinformatics will be empowered if more research is carried out in this area. Such research will give them insight into the best methods and practices for their work. Due to these reasons, exploring the latest advances in data mining and knowledge discovery techniques for bioinformatics and their potential to empower the next generation of bioinformatics research is necessary.

The main objective of this special issue is to explore the latest advances in data mining and knowledge discovery techniques for bioinformatics and their potential to empower the next generation of bioinformatics research. We aimed to bring together the latest research on the development and application of data mining and knowledge discovery techniques in bioinformatics, highlighting the challenges, potential solutions, and future directions in this field. The special issue also provides a platform for researchers and practitioners to share their experiences, best practices, and evaluation results. We targeted researchers and practitioners in bioinformatics, computer science, and artificial intelligence interested in the latest advances in data mining and knowledge discovery techniques for bioinformatics. There is a growing need to facilitate future researchers in bioinformatics and data mining to enable them to learn and prepare for more career opportunities.