

Title: Guest Editorial Advanced Machine Learning and Artificial Intelligence Tools for Computational Biology: Methodologies and Challenges

Author: Fahmi Khalifa, Imran Razzak, Mohammad Amjad Kamal, Ahmed Soliman

Abstract: In recent years, the management and analysis of biological data have experienced exponential growth propelled by the relentless advancement of machine learning (ML) and artificial intelligence (AI) technologies. This is driven mainly by the remarkable ability and potentials of AI-based systems to craft sophisticated, yet effective, algorithms and analytical models tailored for the interpretation of biological information; thus, assist in making accurate predictions and/or decisions [1]. The surge in AI adoption is not unfounded; it's a response to the overwhelming increase in both the volume and acquisition rates of biological data.

Keywords: Machine Learning , Computational Biology , Artificial Intelligence Tools , Interactive , Treatment Of Diseases , Gene Ontology , Antimicrobial Resistance , Learning Algorithms

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