Accelerated migration to collaborative intellectual activities  
- Bioinformatics and knowledge societies

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Abstract

Bioinformatics and computational biology apply mathematical and computer science methods to solve biological problems that involve large amounts of data, computation, and analysis. They are currently receiving a considerable amount of attention. Information technologies play an important role in heterogeneous data management, data modeling, and data analysis. More importantly biological data, and any information that may be derived from such data, need to be accessed and managed easily by biologists.

To solve these problems, improved intellectual mobility has been evolving and accelerating bioinformatics and computational biology toward knowledge intensive activities. The desired properties of such acceleration and evolution will be introduced in this talk. These properties include humanization, personalization, and various forms of other IT requirements, especially privacy preservation. This talk also aims at introducing collaborative intellectual activities, which are built on top of a semantic object-relational database, and knowledge societies, which employ some feedback mechanism to achieve the desired properties.

References