

Bioinformatics Data Reasoning

A high amount of biomedical information is today increasingly available and numerous biomolecular data are continuously generated in genomic and proteomic tests via advanced nano-biotechnologies. Great part of bioinformatics is related to the management and mining of such data and information in order to support better understanding of complex biological patho-physiological phenomena. A PhD student majoring on bioinformatics data reasoning will first focus on bioinformatics data integration and analysis by examining different data types and formats available in many biomolecular databanks, by exploring the bio-terminology and bio-ontologies adopted to describe in a controlled way the current biomolecular knowledge, and by investigating different data and information analysis algorithms to evaluate such available knowledge for specific gene and protein sets and infer new biomedical information; will then develop (parts of) a technological framework for experimenting bioinformatics data reasoning upon real biomedical scenarios. This research is part of the VirtualLab project.

Web site: <http://dbgroup.elet.polimi.it/tesi/VirtualLab.pdf>

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