Abstract

Lack of deficiency of information in different particular areas like science, engineering as well as bioinformatics has several problems. To overcome these issues, proposed a system and that system fusing different kind of information inside single or individual unit for the preference or for the research of different existing areas. There is information fusioning is achieved through the matrix factorization based on heterogeneous information datasets that works together upon the proposed system. In proposed system new concept DFMF for the generation of prediction is utilized through the matrix factorization method. Similar system also accomplishes fusion as well as information prediction of the gene and pharmacologic activities.

References

1. Marinka Zitnik and Blaz Zupan, Data Fusion by Matrix Factorization, University of Ljubljana, Trzaska 25, SI-1000 Ljubljana, Slovenia., 2015.
2. Aerts S, Lamberchts D, Maithy S, Gene prioritization through genomic data fusion,
Laboratory of Neurogenetics, Department of Human Genetics, Flanders Interuniversity Institute for Biotechnology (VIB), University of Leuven, Herestraat 49, bus 602, 3000 Leuven, Belgium, 2006.

3. Jean-Karim Heriche, Jon G. Lees, Ian Morilla, Integration of biological data by kernels on graph nodes allows prediction of new genes involved in mitotic chromosome condensation, Swiss Institute of Bioinformatics, University of Zurich, 8057 Zurich, Switzerland, 2014.


Index Terms

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Keywords

Data fusion, Data integration, Factorization, Bioinformatics, Cheminformatics