Density Based Merging Search of Functional Modules in Protein-Protein Interaction (PPI) Networks

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Abstract. [illegible]

Keywords: [illegible]

1 Introduction

[illegible]

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* [illegible]

[illegible]

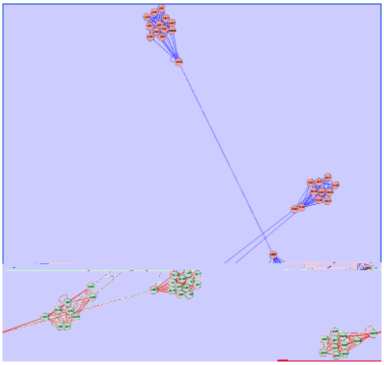
[illegible] GN [illegible] *the Hierarchical Clustering.* [illegible] *HCS* (H [illegible]) [illegible] *the similarity* [illegible] *RSNC* ([illegible]) [illegible]

[illegible]

2 The DBMS Algorithm

2.1 The Characteristics of a Complex

[illegible]



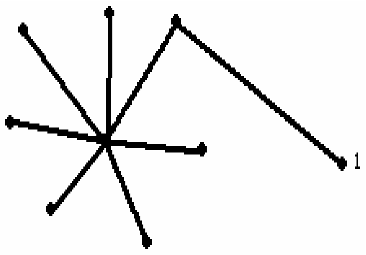


Fig. 1. [illegible]

Fig. 2. [illegible]

[illegible]

[illegible]

[illegible]

2.2 The Description of the DBMS Algorithm

[illegible]

$$ {}_{p} = \left(\sum_{v \quad U_{p}} d_{v} + d_{p} \right) - d_{p} \qquad ( ) $$

d_v [illegible] U_p [illegible]

M M k

m n $S = n$ $d_p = m$

P S m

k k n

k d_p $c = k$ n

m P S c $\frac{b}{n}$ P S

k b b

m m n

$b =$ m n f m d_p n

m d_p m n $b =$ n

3 Experiment Results

3.1 The PPI Datasets

3.2 Simulation Results

3.3 Experimental Results on the Real-World PPI Datasets

Table 1. [illegible]

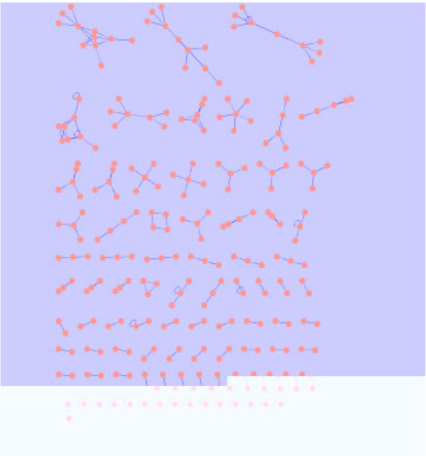


Fig. 3.

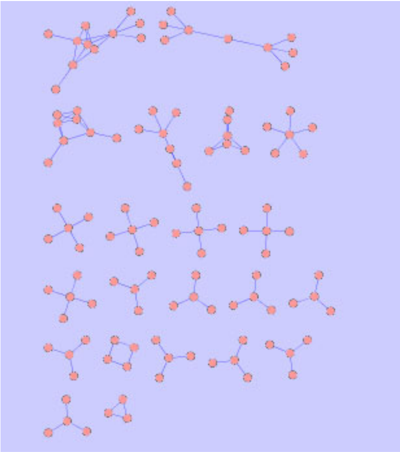


Fig. 4.

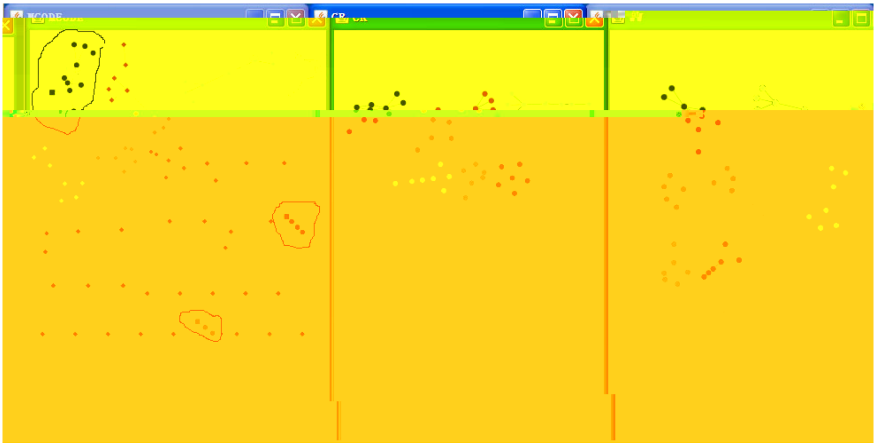


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Fig. 5.

5 Conclusions

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Acknowledgements

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References

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