International Journal of

Computational Intelligence in Bioinformatics and Systems Biology

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Scope of the Journal

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IJCIBSB is a fully refereed international research journal which provides a forum for papers describing cutting edge research in the application of artificial and computational intelligence to the field of bioinformatics and systems biology.

Contents:

IJCIBSB publishes original peer-reviewed papers, which include research papers, review papers, case studies and book reviews. Special Issues devoted to important topics in computational intelligence in bioinformatics and systems biology will occasionally be published.

Topics covered include:

- Artificial/computational intelligence
- Feature selection, dimension reduction, pattern classification/recognition
- · Expert systems, neural networks, fuzzy logic
- Possibility theory, Bayesian networks, hidden Markov models
- Rough sets, granular computing, data mining
- Evolutionary algorithms, learning classifiers, SVM
- Swarm intelligence, ant colony optimisation
- · Bioinformatics databases, data visualisation

Computational Intelligence in Bioinformatics and Systems Biology



- Gene expression, microarrays, motif/pattern discovery
- DNA assembly, clustering, mapping
- Gene identification/annotation, sequence
 analysis/alignment
- Image processing, simulation/modelling
- Molecular evolution/phylogeny, protein structure/interaction prediction
- Regulatory network/pathway analysis
- Functional genomics, structural proteomics

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