

ISDA'09

9th International Conference on Intelligent
Systems Design and Applications



November 30 - December 2, 2009 - PISA, ITALY



II WORKSHOP ON INTELLIGENT SYSTEMS AND DATA MINING TECHNIQUES FOR BIOINFORMATICS

Organizing Committee:

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Aim and Scope:

This workshop provides a meeting place for researchers studying how to extract useful knowledge from huge volumes of information stored in biological and biomedical databases using intelligent systems and data mining techniques. Intelligent systems and data mining in Bioinformatics are crucial for the scientific advancement of these disciplines because they provide a set of tools to discover useful knowledge from biological data, such as genetic mechanisms underlying disease, analysis of gene expression, protein structure, etc. The main objective of the II workshop on Intelligent Systems and Data Mining Techniques for Bioinformatics in the 9th International Conference on Intelligent Systems Design and applications ISDA'09 (<http://cig.iet.unipi.it/isda09/>) is to exchange ideas and knowledge for the advance of this line of research. The intended audience is the scientific communities of Bioinformatics, Data Mining, Computation, Artificial Intelligence and Systems Biology. This workshop will be publicized in its own web site. Also, the call for papers will be distributed to the scientific community by email.

Topics:

The major topics of the session include but are not limited to:

1. **Gene expression and gene regulatory networks**
2. **Pattern Recognition in bioinformatics**
3. **Biological Evaluation**
4. **Microarray design and analysis**
5. **Visualization of biological systems**
6. **Comparison, alignment and sequence analysis methods**
7. **Classification and Cluster analysis methods**
8. **Computational Modelling of Biological Networks**
9. **Probabilistic Approaches**
10. **Evolutionary Computation in bioinformatics**
11. **Protein interaction networks**
12. **Biological/Biomedical text mining**

Program Committee

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Submission of papers:

Authors are invited to submit original papers using ISDA'09 web site. Authors must submit manuscripts using the IEEE Journal format. The Proceedings will be published by IEEE CS Press. Selected papers will be published in several Journal special issues (to be announced). See for more details: <http://cig.iet.unipi.it/isda09/>

Important Dates:

Deadline (Full Papers): May 31, 2009
Notification: July 25, 2009
Camera-ready due: September 15, 2009
Conference days: November 30- December 2, 2009