

**CALL FOR PAPERS**  
**IEEE Transactions on Computational Biology and Bioinformatics**  
**“Computational Intelligence Approaches in Computational Biology and Bioinformatics”**  
**Special Issue in Late 2006**

IEEE Transactions on Computational Biology and Bioinformatics seeks original manuscripts for a Special Issue on Computational Intelligence Approaches in Computational Biology and Bioinformatics scheduled to appear in a **late 2006 issue**.

**EXAMPLE:** Application of biologically and linguistically inspired computational paradigms such as neural networks, evolutionary computation, and fuzzy systems and their hybridizations to problems in computational biology and bioinformatics have increased in recent years. This is likely due to demonstrated utility in handling complex mappings and imprecise information, and providing novel solutions to difficult problems without expert assistance.

This special issue aims to highlight application of these algorithms to biological problems. In this special issue, we encourage papers on novel computational intelligence algorithms (e.g., neural networks, evolutionary computation, fuzzy systems and their derivatives and combinations) applied to problems such as:

**EXAMPLE:**

- Sequence analysis
- Gene and protein expression analysis
- Protein structure and interaction prediction
- Regulatory networks and pathway analysis
- Gene, protein, and biomedical ontology
- Biological data mining, text mining, and rule extraction
- Biological and molecular image analysis
- Protein docking and drug discovery

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Please note the following important dates.

**Important dates:**

**Submission Deadline: 1-Mar-06**

**Completion of First Round of Reviews: 5-May-06**

**Minor Revisions Due: 21-Jul-06**

**Final Acceptance Notification: 4-Aug-06**

**Publication in Late 2006**

Please address all other correspondence regarding this special issue to Guest Editors Dr. Jagath C Rajapakse, Dr. Yan-Qing Zhang, Dr. Gary B. Fogel.

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