

## **2007 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)**

Call for Papers of Special Session on “**Fuzzy Systems in Bioinformatics**” CIBCB 2007, Honolulu, Hawaii, USA, April 1-5, 2007 <http://www.cs.kent.edu/~volkert/CIBCB07>

### **THEME AND SCOPE**

In recent years, there has been an increasing awareness in the fuzzy aspects of biological systems, which is sometimes referred to as a paradigm shift to a “new biology”. More and more evidence has been found that in biological systems many processes are intrinsically fuzzy rather than deterministic. Numerous examples have demonstrated that fuzzy effects are physiologically and evolutionarily important in the development and function of living organisms. In this context, fuzzy logic provides an opportunity to gain more insight into the biological system by development of new bioinformatics tool and frameworks. This special session is intended to be a catalyst for the collaboration between bioinformatics and fuzzy systems researchers. Papers for this special session must involve Fuzzy Systems approaches to biological system topics, must be no more than eight (8) pages long (including results, figures and references) and must follow the CIBCB'07 formatting guidelines. Topics of interest include, but not limited to:

- genome analysis
- sequence analysis
- microarray analysis
- phylogenetic analysis
- structural bioinformatics
- gene expression
- genetics and population analysis
- system biology
- data and text mining
- ontologies
- biological network analysis
- cell modeling and simulation

### **IMPORTANT DATES**

Submission of full papers: October 31, 2006

Notification of paper acceptance: November 30, 2006

Deadline for final manuscript: January 31, 2007

Special Session Co-Chairs:

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