DISCRETE APPLIED MATHEMATICS

Announcing a Second Special Issue on Computational Molecular Biology

Guest Editors: Sorin Istrail, Pavel Pevzner, Ron Shamir

Submission Deadline: September 15, 1996

"Don't ask [only] what mathematics can do for biology, ask what biology can do for mathematics."

Stanislaw Ulam

Manuscripts are solicited for a special issue of **Discrete Applied Mathematics** on topics concerning the development of new combinatorial and algorithmic techniques in computational molecular biology. This issue will be the second in a series of special issues of **Discrete Applied Mathematics**, which publishes papers on the mathematical and algorithmic foundations of the inherently discrete aspects of computational biology.

The traditional partnership of mathematics and physics has advanced and enriched both disciplines. In a similar partnership, mathematics and algorithms are becoming crucial tools in the rapid advancement of molecular biology. At the same time, the computational challenges of these biological disciplines raise exciting new problems in discrete mathematics and theoretical computer science.

The following is a (non-exhaustive) list of possible topics of interest for the special issue:

DNA mapping	DNA sequencing
DNA/protein sequence comparison	Molecular evolution
RNA/protein structure	Gene/motif recognition
DNA Computing	

The response to the first call for papers in this series in 1995 was very strong, and resulted in a high quality volume which is expected to appear in the Fall of 1996. The guest editors will continue to make every possible effort to assure the timely completion of a thorough refereeing process. This second special issue is expected to appear in the Spring of 1998.

Seven (7) hard copies of complete manuscripts should be sent to any of the guest editors by September 15, 1996. The submission should be accompanied by an email message containing only the text (ASCII) of the abstract of the paper.
Authors are encouraged to send also a LaTex or postscript file of the full manuscript via email, to expedite the reviewing process. This does not replace the need for hard copy submission. Manuscripts must be prepared according to the normal submission requirements of **Discrete Applied Mathematics**, as described in each issue of the journal.

Further information on the series (including the list of papers accepted for publication in the first volume) will be available soon from:

`http://www.elsevier.nl/mcs/dam/Menu.html` (The Netherlands)
`http://www.cs.sandia.gov/~scistra/DAM` (USA)
`http://www.math.tau.ac.il/~shamir/dcb.html` (Israel)

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