Call for Papers

GECCO is the premier Genetic and Evolutionary Computation Conference. GECCO 2003 will host, for the second time, a track on Search-Based Software Engineering (SBSE). The goals of the track are to:

- develop and extend the emerging community working on Search-Based Software Engineering
- introduce researchers in evolutionary computation to problems in software engineering
- increase awareness and uptake of evolutionary computation technology within the software engineering community
- provide definitions of representations, fitness/cost functions, operators and search strategies for software engineering problems.

Topics Covered

Topics of interest include, but are not restricted to, the application of search-based algorithms to:

- Requirements Engineering
- System and Software Design
- Implementation
- System and Software Integration
- Quality Assurance and Testing
- Project Management, Control, Prediction, Administration and Organisation
- Maintenance, Change Management, Optimisation and Transformation
- Development Processes

As an indication, search-based techniques are taken to include (but are not limited to):

- Genetic Algorithms
- Genetic Programming
- Evolution Strategies
- Evolutionary Programming
- Simulated Annealing
- Tabu Search
- Ant Colony Optimisation
- Particle Swarm Optimisation

Papers should address a problem in the software engineering domain and should approach the solution to the problem using a search-based strategy. Papers may also address the use of methods and techniques for improving the applicability and efficacy of search-based techniques when applied to software engineering problems. While experimental results are important, papers which do not contain results, but which present new approaches, concepts and/or theory will also be considered.

Submission deadline: January 22, 2003
Notification deadline: first week of March 2003
Camera Ready due: early April, 2003

SBSE Track website: http://www.brunel.ac.uk/~csstmmh2/sbse2003/