

Using Genetic Algorithm for Drawing Triangulated Planar Graphs

Ahmed A. A. Radwan, Mohamed A. El-Sayed

Jour. Inst. Math. & Computer Sciences,
(Comp. Sc. Ser.)

Vol. 15, No.1, 137-147, 2004.

Abstract: In this paper we report on our experiences with applying a genetic algorithms to the drawing of triangulated planar graphs. Given a plane graph G , we wish to find a drawing of G in the plane such that the vertices of G are represented as grid points, and the edges are represented as straight-line segments between their endpoints without any edge-intersection. Here we introduce a genetic algorithm, which nicely draws planar graphs of moderate size.