1077-68-2919　　　　**Glencora Borradaile**, **Jennifer Iglesias**, **Theresa Migler**, **Antonio Ochoa***
(`aochoa@csupomona.edu`), **Gordon Wilfong** and **Lisa Zhang**. *Egalitarian Graph Orientations.*

Given an undirected graph, one can assign directions to each of the edges of the graph, thus *orienting* the graph. We consider the problems of orienting a graph so that the resulting orientation achieves an egalitarian distribution of indegrees among its vertices and finding a strongly-connected orientation that minimizes the maximum indegree. Specifically, we present polynomial-time algorithms for: finding an orientation that minimizes the lexicographic order of the indegrees and finding a strongly-connected orientation that minimizes the maximum indegree. (Received September 23, 2011)