

Abstract

In this paper we extend a recent algorithm for solving the sensor network localization problem (SNL) to include instances with noisy data. In particular, we continue to exploit the implicit degeneracy in the semidefinite programming (SDP) relaxation of SNL. An essential step involves finding good initial estimates for a noisy Euclidean distance matrix, EDM, completion problem. After finding the EDM completion from the noisy data, we rotate the problem using the original positions of the anchors. This is a preliminary working paper, and is a work in progress. Tests are currently on-going.