

METRIC DIMENSION ON RANDOM GEOMETRIC GRAPHS

JOSEP DÍAZ, DIETER MITSCHKE, GUILLEM PERARNAU, MARIA J. SERNA

Given a set of points in the unit square $[0, 1]^2$, a geometric graph is constructed by joining two points whether they lie at distance at most r . If the positions of these points follow a probability distribution we talk about random geometric graphs. They turned out to have many applications, such as modelling wireless sensor networks. We study the metric dimension of random geometric graphs.