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On The Radius of Location of Trees

The metric dimension of a graph represents the minimum number of cell towers needed to be placed among the vertices of a graph such that the location of an unknown agent can be uniquely determined using only its distances to each of the cell towers. The radius of location of that graph then represents the minimum possible "strength" of the cell towers over all optimal layouts this number of towers. In particular, a cell tower cannot distinguish two locations if they are outside of the range of that tower. We discuss this parameter on several classes of graph, with emphasis on caterpillars and trees in general. This is joint work with Danny Dyer and Melissa Huggan.