
Subject: Fastest Nearest Neighbor Calculation
Posted by [lefsky](#) on Sat, 28 Jan 2006 21:57:49 GMT
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I need to find (within a dataset of points with x,y coordinates) pairs of points that are closer than a given threshold to each other. Simple problem- unless you have hundreds of thousands to millions of points to evaluate. My plan is to first separate all the points into slightly overlapping grid cells, and evaluate the set of points within each grid cell separately, thus decreasing the total number of comparisons. Other than that, I don't have a strategy to improve the actual comparison of points. Has anyone looked at this problem? Is there a clever vector method I could use?

M
