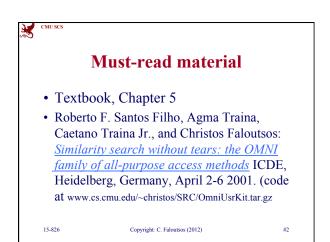
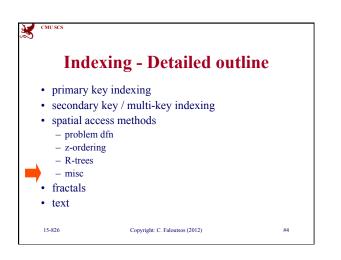
CMU SC

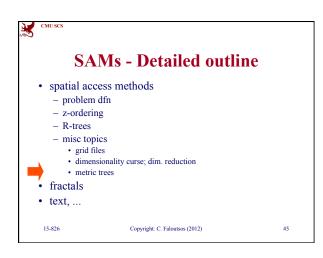
## 15-826: Multimedia Databases and Data Mining

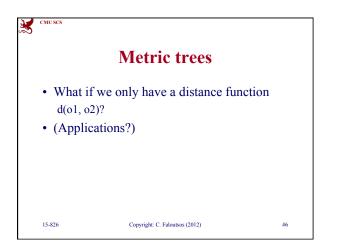
Lecture #8: Spatial Access Methods - V Metric trees *C. Faloutsos* 

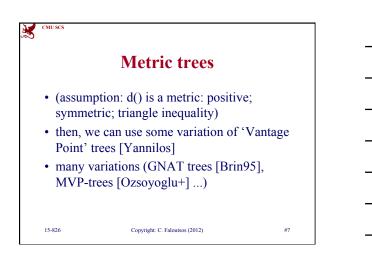


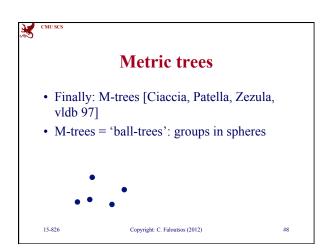


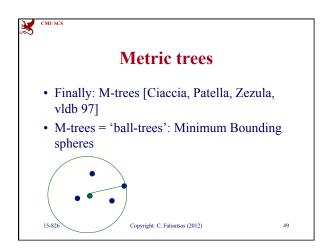


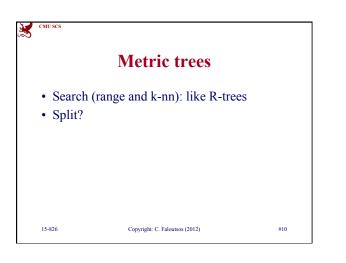


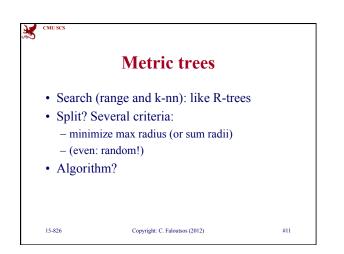


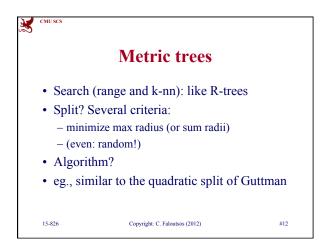






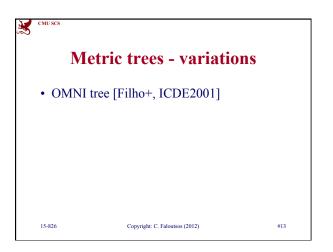






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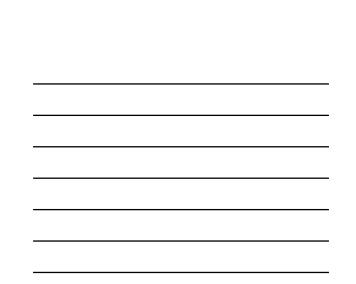
**Metric trees - OMNI trees** 

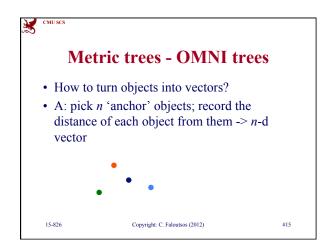
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#14

How to turn objects into vectors?
(assume that distance computations are expensive; we need to answer range/nn

queries quickly)

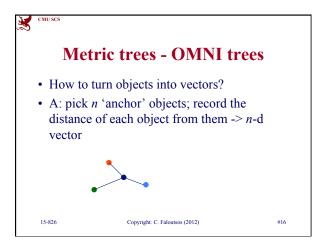




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vector

15-826

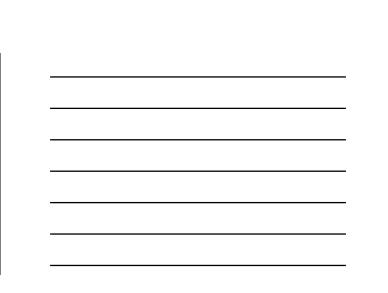


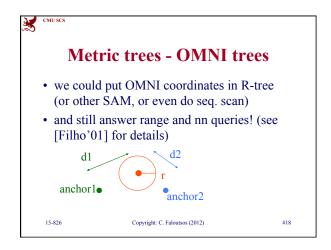
**Metric trees - OMNI trees** 

How to turn objects into vectors?
A: pick *n* 'anchor' objects; record the distance of each object from them -> *n*-d

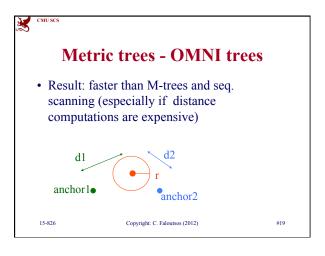
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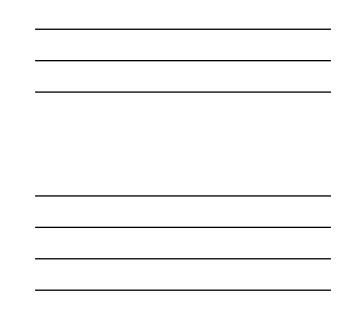
#17

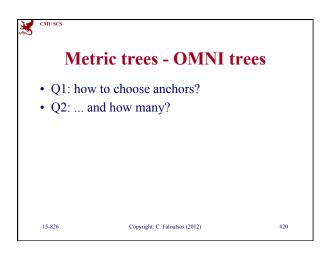


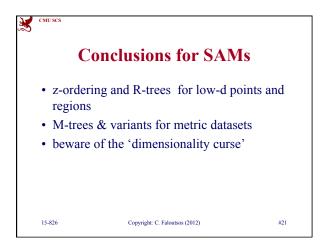


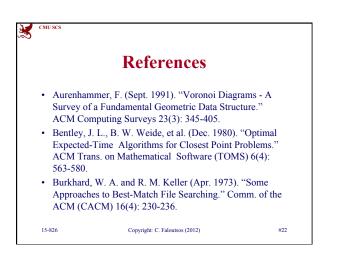


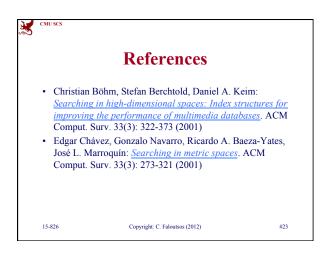


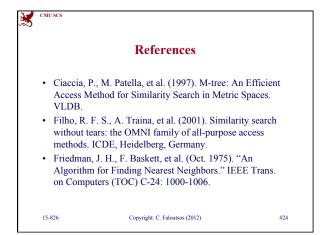












8

