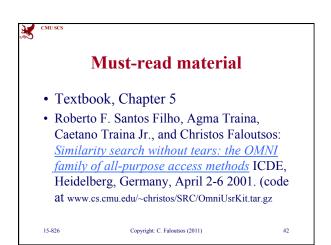
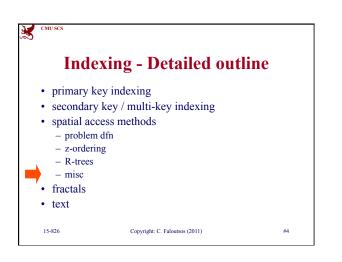
CMU SC

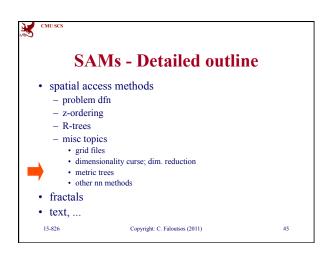
## 15-826: Multimedia Databases and Data Mining

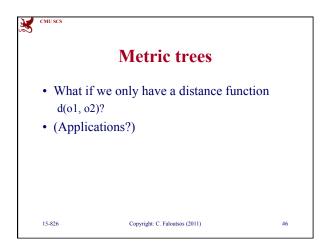
Lecture #8: Spatial Access Methods - V Metric trees *C. Faloutsos* 

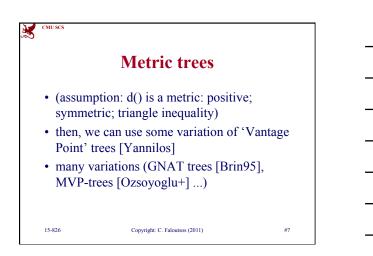


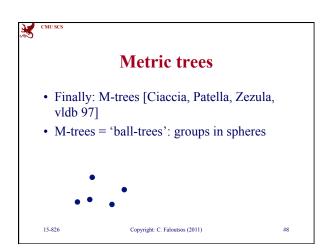


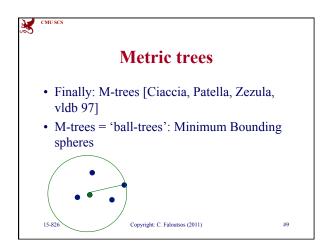


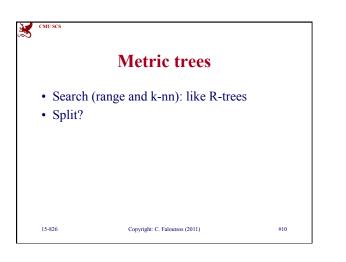


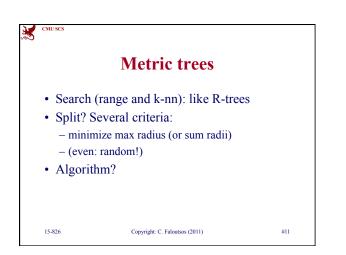


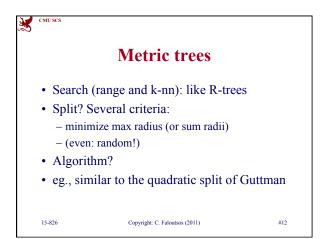


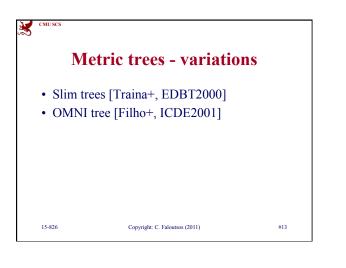


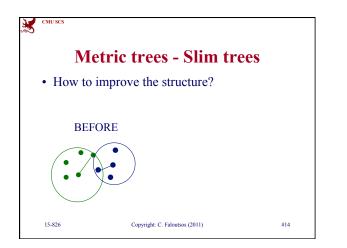




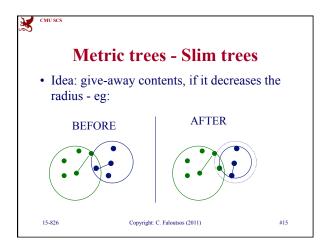




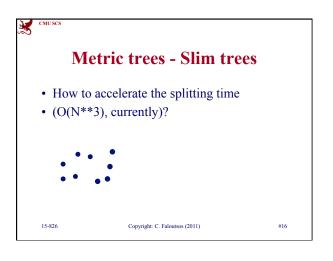


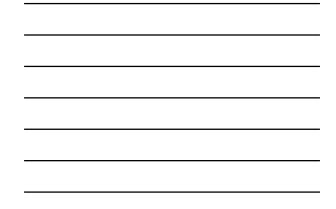


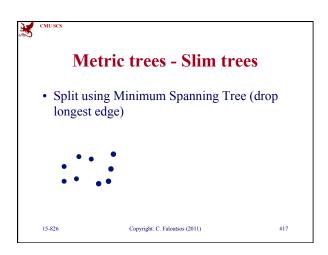




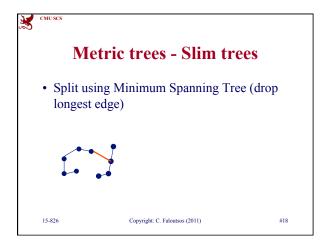






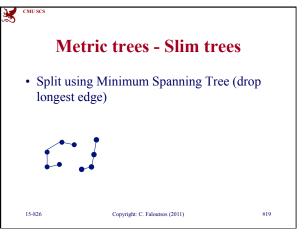






CMU SCS

15-826



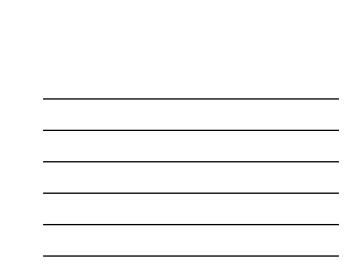
**Metric trees - Slim trees** 

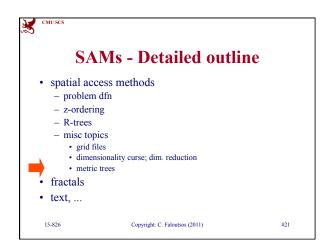
result: at least as fast as M-trees for searchMST: significantly faster for split, with tiny

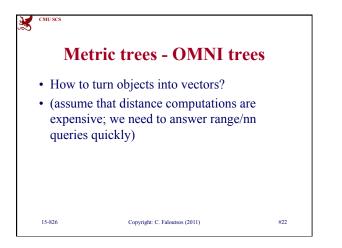
Copyright: C. Faloutsos (2011)

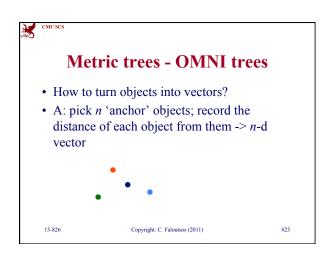
#20

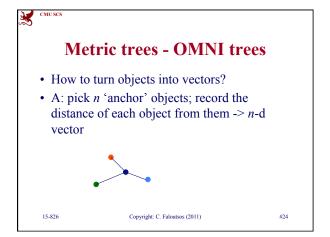
performance penalty



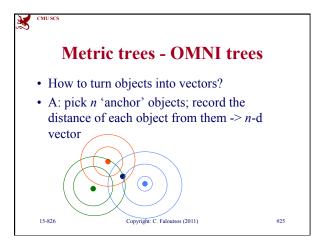








CMU SC



**Metric trees - OMNI trees** 

d2

Copyright: C. Faloutsos (2011)

anchor2

we could put OMNI coordinates in R-tree (or other SAM, or even do seq. scan)
and still answer range and nn queries! (see

[Filho'01] for details)

d1

anchor1.

15-826



