

Exercises for Spatial Databases and GIS

Sheet 5 (until 06.12.2013)

Exercise 1 (Approximations)

How can you construct for any given polygon a convex polygon with a given number of edges as conservative approximation?

Exercise 2 (Approximations)

1. Which topological relations may occur between two spatial objects if the given topological relation exists between their conservative/ progressive approximations?
 - a) Disjoint
 - b) Equal
 - c) Overlap
2. Why do spatial indexes usually use a conservative approximation?
3. Under which circumstances would a progressive approximation be more suitable than a conservative one?