

Computer Science Seminars

Locality Sensitive Hashing: an approach to Nearest Neighbour retrieval in a Big Data setting.

Speaker: Luigi Portinale

Location: Sala Seminari Computer Science Insitute (Room 192, 1st floor)

Time: 11.00-12.00

Abstract: Locality Sensitive Hashing (LSH) is a technique for the indexing and retrieval of similar points in a potentially high dimensional space. It is particularly interesting in the Big Data setting, where both the number of dimensions (features) as well as the number of points (cases) may be very large.

In the lecture, after reviewing the basics of NN retrieval, some results concerning randomized algorithms for the c-approximate R-NN and R-NN reporting problems are presented, in the context of Euclidean distance over numerical features.