

**PENCARIAN KATEGORI BUKU DI PERPUSTAKAAN SMK NEGERI 01 JEMBER
BERDASARKAN SINOPSIS MENGGUNAKAN METODE *EUCLIDEAN DISTANCE***

**AHMAD AGIL K, 09 10651160
PROGRAM STUDI TEKNIK INFORMATIKA
UNIVERSITAS MUHAMMADIYAH JEMBER, 2016**

ABSTRACT

The library is a place visited either to read or to search for references. The number of collections in a library is dynamic, meaning that there are always additional collections from time to time. Collection categorization is needed to facilitate the user in finding the desired reference. The amount of computation time is directly proportional to the number of image template used. The algorithm used for pattern matching in this research using *Euclidean Distance* algorithm. Implementation of *Euclidean distance* algorithm can be used to search text similarity using the shortest distance. From the implementation of *Euclidean Distance* method is an equation that uses the smallest distance value that will be used as book classification.

Keyword : Library, *Euclidean Distance*, distance, smallest.