1. Find orientations and endpoints of all segments

1.5. Give each endpoint an index and make a vector that says which segment each endpoint belongs to

2. for each endpoint, find other endpoints in a “stripe” (kernel?) defined by the orientation vector -

3. Build up a (sparse) NumEPs x NumEPs matrix to mark which endpoints match with which others… this can be searched easily later

4. Alternative – Make a cell array (NumEPs x 1) to list the indices of the other endpoints that are matches… and their scores?

5. Check each endpoint’s top match and see if it is a cross-match in any way, build a list of potential matches and develop a scoring formula to decide which can match… it must be 1:1

6. Percolate to put them together

5. Some kind of percolation algorithm to restore the originally segmented fiber pixels

6. Whatever, measure lengths and weight by pixels