Examples for Project Topics

1) Out-of-core data structures for priority queues, dictionaries, hashing, etc.
2) Out-of-core algorithms for the construction of suffix arrays and suffix trees
3) Out-of-core algorithms for graph problems
4) Out-of-core algorithms for clustering
5) Out-of-core algorithms for sequence analysis
6) Biological data compression (DNA and protein sequences, for example)
7) Biological data reduction techniques
8) Out-of-core algorithms for rules mining
9) Out-of-core algorithms for matrix problems
10) Out-of-core algorithms for motif search (planted motif search, for example)
11) Efficient algorithms for k-mer counting
12) Efficient algorithms for sequence assembly
13) Efficient algorithms for the closest pair problem