

Content warning: this talk will contain Hamiltonian cycles.

THE TRIVIAL NOTIONS SEMINAR

Jenny Kaufmann

will speak on

ALGORITHM SHORTEST COMMON SUPERSTRING GREEDY FOR APPROXIMATING

ABSTRACT

In the shortest common superstring (SCS) problem, we are given a list of strings s_1, \dots, s_n and asked to find the shortest string containing every s_i as a substring. This is hard, as in NP-hard, so if we want to do this efficiently, we can settle for just finding a common superstring which is pretty short. It turns out that there are some greedy algorithms which do pretty well at approximating SCS via constructing cycle covers of a graph representation of the problem.

Thursday, October 28, 2021

at 11:30 am

Jefferson Tent