

# Asymmetric traveling salesman problem on planar graphs

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Traveling salesman problem is one of a most studied problem in combinatorial optimization. This problem is even hard to approximate, so all efforts are to approximate this problem in restricted versions like some specific metric spaces. In this talk we will see a general ways to attack to this problem and we will see a constant approximation on directed planar graphs in shortest path metric space. Also we talk about thin tree, which is one of a useful tools for solving some combinatorial optimization problems, specially for *ATSP*.