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**BEAM SEARCH WITH ANT COLONY OPTIMIZATION ALGORITHM FOR SOLVING THE  
VEHICLE PASSAGE PROBLEM**

We considered the vehicle passage problem with constraints related to the vehicle capacity and the distance of travel within one route. To solve the problem it was proposed a hybrid approach, which combines the beam search with the ant colony optimization and a local search.

**Keywords:** capacitated vehicle routing problem, ant colony optimization, beam search, local search.

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