

# THE GREAT TRUCK & DRONE CHALLENGE



**A LAST-MILE DELIVERY CONTEST WITH CASH PRIZES!**

**COMPETE  
ONLINE  
AGAINST  
YOUR  
FRIENDS  
(OR FOES)**

**PARTICIPATE ALONE  
OR CREATE A TEAM  
- FROM ANYWHERE  
IN NORWAY**

Join us for an exciting optimization competition leading up to the Workshop on Metaheuristics on February 10th!

## **HOW THE CHALLENGE WORKS:**

Four weeks before the workshop, we'll release a set of truck-and-drone last-mile delivery problem instances on our **Optimization Gamification Platform**.

Participants can submit solutions anytime—the platform will evaluate them automatically and keep a live scoreboard updated in real time.

## **THE WORKSHOP:**

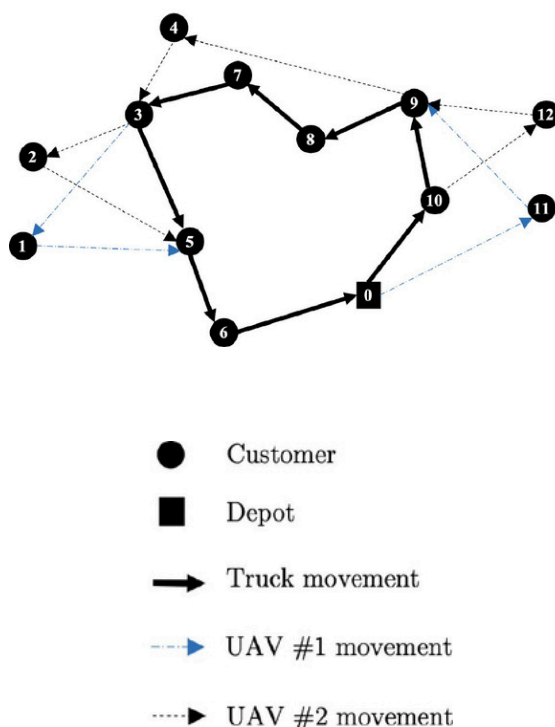
On February 10th, during the workshop, new instances of the same problem will be revealed. The best teams on the scoreboard will win:

 **1ST PLACE: 5,000 NOK**

 **2ND PLACE: 2,000 NOK**

 **3RD PLACE: 1,000 NOK**

At the workshop, invited speakers will introduce **metaheuristics** and show how these powerful techniques can solve large, complex optimization problems.



## THE MISSION:

Your mission is to design fast and efficient delivery routes in a hybrid system where a truck collaborates with multiple drones.

The truck acts as a mobile hub—carrying drones, launching them to serve nearby customers, and retrieving them at later stops.

You must determine:

- which customers are served by the truck or by drones,
- the order of the truck's stops,
- and the launch/return points for each drone,

...all while respecting drone flight limits and keeping truck-drone movements synchronized.

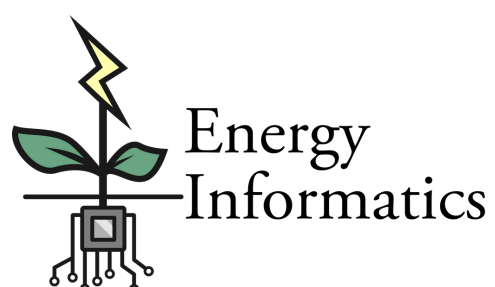
The goal: Minimize total customer waiting time (sum of arrival times) by coordinating truck and drone operations as efficiently as possible.

**GOOD LUCK!**



**GET READY.  
GET CREATIVE.  
OPTIMIZE.**

Join the Discord and  
be part of the action!



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