

Pteromys: Interactive Design and Optimization of Free-formed Free-flight Model Airplanes

This supplemental material consists of the following files:

1) Training data.

The airplane model file (.obj), its preview (.png), and its acquired trajectories (.hst).

2) Validation data.

The airplane model file (.obj), its preview (.png), and its trajectories (.csv).

3) Armadillo and Dragon data.

The CAD data (.dxf) of Armadillo and Dragon which could be sent to lasercutter.

About the ".hst" file

An ".hst" file is basically a text file and includes an acquired trajectory information. The trajectory is represented by the following format:

```
-----  
line1    : [launch angle (radian)]  
line2    : [The number of marked points]  
line3 -   : [x-coordinate] [single space] [y-coordinate]  
EOF  
-----
```

About the airplanes

All the airplanes included in this supplemental material are designed and optimized for 1mm thick foam core board of 388.8 g/m³ density, and need a 3g weight at their heads.