

Device Alternative Interaction System (dAIsy)

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Topic

- Exploring alternative ways to control a device (e.g. drone, surgical arm, ...).
- Focusing on relevant drone-based applications.
- Achieving Computer Vision tasks exploiting real-time video acquisition.



Problems

- Inexperienced pilots find hard to fly drones using a traditional remote controller.
- Classic interfaces generally limit the degrees of freedom that a user can control simultaneously.
- Complex tasks require processing the information obtained from the device.

Objectives

- Making the device easy to control, without the need of intense training.
- Implementing different types of control for different needs and tasks.
- Using AI to support the user with different levels of automation: from assisted control to autonomous control.

