

Why should we predict UAV crashes?

 Habitat loss for (endangered) species.

Los Angeles Times

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A generation of seabirds was wiped out by a drone in O.C. Scientists fear for their future



As many as 2,000 elegant tern eggs were abandoned on a nesting island at Bolsa Chica Ecological Reserve in Huntington Beach after a drone crashed, scaring off the would-be parents. (California Department of Fish and Wildlife)

By ALEX WIGGLESWORTH | STAFF WRITER

JUNE 7. 2021 4 AM PT

For the record:

11:04 a.m. June 7, 2021: The photo caption in an earlier version of this article stated 3,000 elegant tern eggs had been abandoned. It was 1,500 to 2,000 eggs.

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Why should we predict UAV crashes?

- Habitat loss for (endangered) species.
- Massive monetary lost and wasted time.



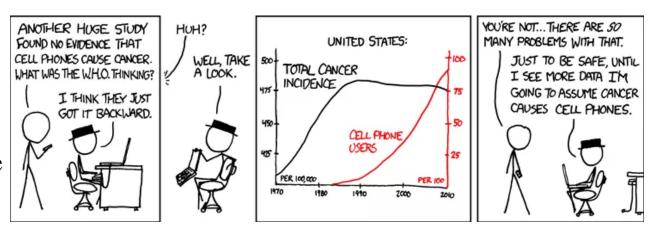
Why should we predict UAV crashes?

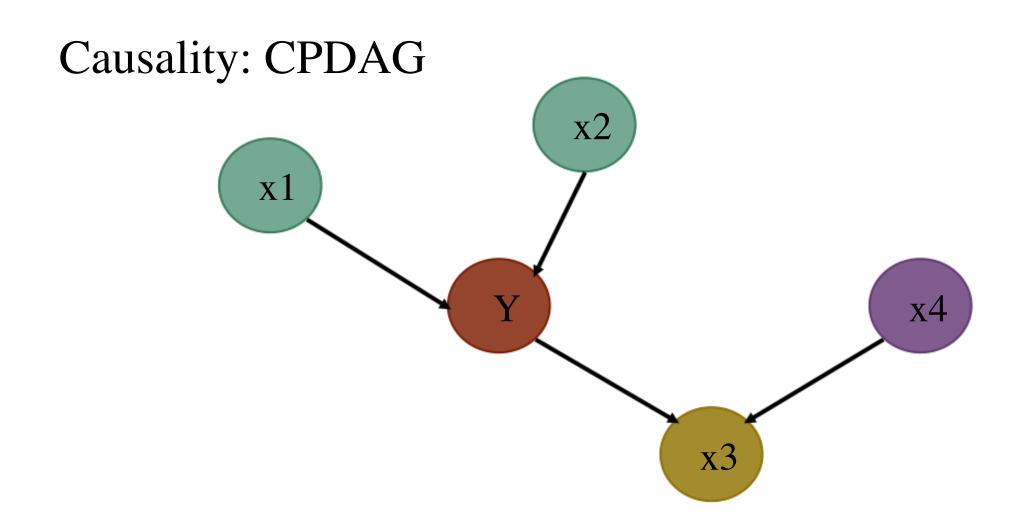
- Habitat loss for (endangered) species.
- Massive monetary lost and wasted time.
- Chicken Little scenario...



Why causal feature selection?

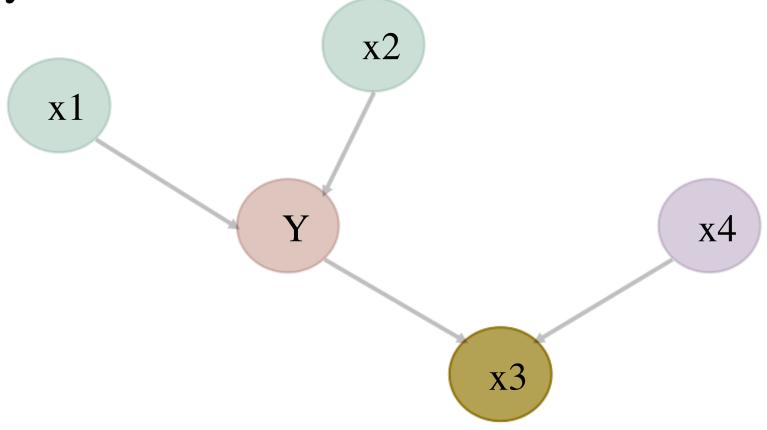
- Correlation ≠ causation.
- Helps us have a better understanding of predictions.
- Reduce combinatorial space of possible UAV initial parameters configurations.



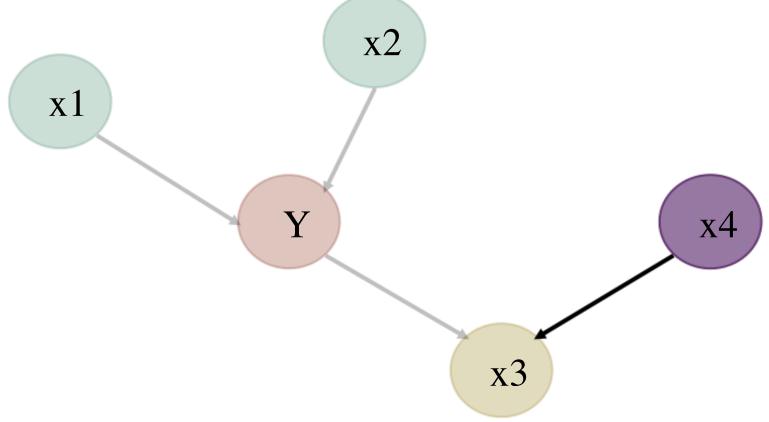


Causality: CPDAG – parents x2 x1x4 **x**3

Causality: CPDAG – children



Causality: CPDAG – spouse(s)



Workflow



(Preliminary)

Results: causal f.s.: 0.695; classical f.s.: 0.717

Lessons & challenges