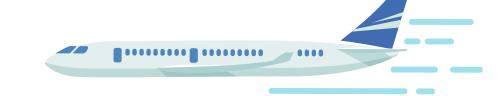
Deployment of Complex Real-Time Control Algorithms on Heterogeneous Embedded Hardware

- A Co-Design Problem -

Yon Vanommeslaeghe



Context



- Cyber-physical systems are becoming more complex.
- So is the software that is meant to monitor and control them.

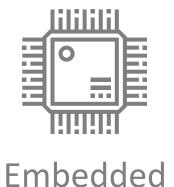


Problem



- Complex algorithms
- High numerical precision
- High frequency
- Algorithm parameters

- Complex platforms
 - Multi-core
 - Heterogeneous
- Limited resources

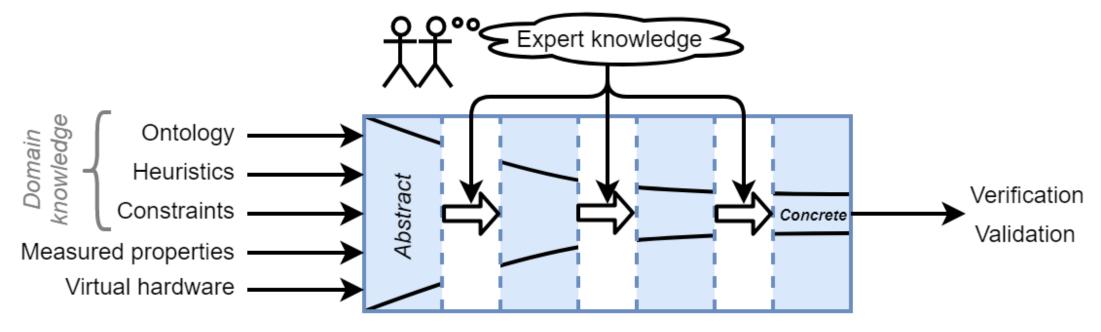




How do we find a good combination?



Approach



Design space exploration

