

Priorities

- Collaborative multi-disciplinary design techniques
 - collaborative modelling using semantically heterogeneous formalisms
 - co-simulation & early design space exploration
 - extensible semantic foundations (mobility, locality, probability,..)
 - human-centred CPS design (trust, perception, ethics,...)
- Designing for and limiting emergence
 - verification and validation
 - compositional model-checking and proof
 - contractual models (assumptions and guarantees)
- Resilience, security & privacy
 - predicting, detecting and counteracting malicious and faulty behaviour (in cyber or physical side, or in combination) (faults can be expected and “considered normal”)
 - information provenance
- Architectural modelling
 - semantically well-founded
 - CPS patterns and guidelines
 - low-power and survivable CPS
 - distributed control