## Workshop of the 64<sup>th</sup> IFIP meeting, 27-30 June 2013 Session 2 (on monitoring) – Felicita Di Giandomenico

- ☐ GridCloud: Realtime infrastructure to monitor the smart power grid and host advanced power applications Ken Birman
  - Adopt a cloud approach to scalable and secure monitoring in "modern" power grid (state estimation)
  - Key design features: redundancy, integrated open-flow network routing scheme, ability to host different applications, consistency
- □ External runtime monitoring for safety of embedded systems Phil Koopman
  - Adopt an external monitoring approach to guarantee autonomous vehicle safety
  - Key design features: minimally intrusive; independency; don't need to build a system model
- □ Realtime SEC&DEP monitoring: make it a bundle Luigi Romano
  - Adopt an approach that integrates security and dependability monitoring technologies/facilities (and beyond)
  - Key design features: many system levels monitored, richness of surce data, sophisticated correlation analysis

## Some issues mentioned in, or inspired by, the talks

- Specification of the safety/dependability/security property, also in relation to operational modes
- Consider evolution of this specification
- Filtering and correlate huge amount of data (possibly coming from a variety of monitoring infrastructures tailored to specific aspects) – implications on real-time
- Coverage estimation
- Heterogeneity of the data to correlate
- Trustworthiness of the source data some redundancy
- Dependability, safety and security of the monitoring infrastructure itself
- Intrusiveness aspects
- Social, economical and political aspects