

Dear colleagues,

The EU FP7 Support Action [CPSoS](#) organizes an [Open Workshop “Cyber-Physical Systems of Systems Roadmap”](#)

Venue: at the [ARTEMIS Technology Conference 2015](#) in Torino, Italy

Date: October 6th, 2015 - from 13h30 to 18h

As you may know, the CPSoS project has prepared a Working Paper on ‘[Core Research and Innovation Areas in Cyber-physical Systems of Systems](#)’, outlining the challenges and key research and innovation areas in the domain of large systems that consist of physical structures and information processing elements. This Working Paper, as well as the related paper on conducted ‘[Analysis of the State-of-the-Art and Future Challenges in Cyber-physical Systems of Systems](#)’ have provided the basis for the current work on a ‘Cyber-physical Systems of Systems Research Agenda 2015-2025’.

The following 6 overarching research and development topics, comprising several sub-topics as the main challenges for the next 5-7 years, have been defined within this research agenda:

- Overcoming the modelling bottleneck
- Reconfiguration during operation (integration, modification, removal of components and structures)
- Distributed robust system-wide control and optimization
- Resilience in systems of systems (handling faults, disturbances, unexpected events)
- Humans in the loop
- Towards cognitive systems: Data-based system operation.

The CPSoS Workshop shall mainly serve for presentations and discussions around these medium-term research priorities. Besides, domain-specific topics for different areas shall be put forward.

Participation in the CPSoS Workshop is free of charge, but space is limited. If you are interested to participate, please fill in the [registration form](#) and send it by mail to: d.marron@inno-group.com before September 20th, 2015.

*****The workshop will take place at the ARTEMIS Technology Conference. If you plan to attend this conference as well, please do not forget to register for this separately via the [dedicated ARTEMIS website](#)***** If you do not register for the ARTEMIS Conference, registration via our registration form is mandatory.

We look forward to seeing you in Torino in October!

Best regards
Sebastian Engell
CPSoS Coordinator