Other topics relevance to ALICE Roadmaps Implementation

SU-DS01-2018:   Cybersecurity preparedness - cyber range, simulation and economics

Specific Challenge: The **digital infrastructure**, upon which other sectors, businesses and society at large critically depend, must be **resilient and trustworthy, and must remain secure despite the escalating cyber-threats**. New technologies and their novel combinations require **innovative ways to implement security measures** …..and emerging attacks, and managing cyber risks…… In a **connected EU society**, there is an urgent need **for highly competent cybersecurity professionals**, and security experts need to be in a constant learning process, to match the quick rate of evolution of the cyber threats, attacks and vulnerabilities…..

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SU-DS01-2018:   Cybersecurity preparedness - cyber range, simulation and economics

Scope: .... The proposed **cyber range model should be validated across one critical economic sector, involving as many as possible relevant stakeholders from its supply chain**. Proposals should consider the specific needs of end-users, private and public security end-users alike. Proposals are encouraged to include public security end-users and/or private end-users, and to create operational links to the Computer Emergency Response Teams (CERTs) / Computer Security Incident Response Teams (CSIRTs)[1] network across the EU.

The Commission considers that proposals requesting a contribution from the EU of between **EUR 5 and 6 million**…

IA - Innovation Action   **Deadline Single Stage**: 23th August 2018

European Commission

ICT-01-2019: Computing technologies and engineering methods for cyber-physical systems of systems

Specific Challenge: **Cyber-physical Systems of Systems (CPSoS), like transport networks** or large manufacturing facilities, interact with and are controlled by a considerable number of **distributed and networked computing elements and human users**. These complex and **physically-entangled systems of systems** are of crucial importance for **the quality of life of the citizens and for the European economy**.

At system level the challenge is to bring a step change to the engineering techniques supporting the design-operation continuum of dynamic CPSoS and to exploit emerging technologies such as augmented reality and artificial intelligence. At computing level the challenge is to develop radically new solutions overcoming the intrinsic limitations of today's computing system architectures and software design practices

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ICT-01-2019: Computing technologies and engineering methods for cyber-physical systems of systems

Scope:

- **Computing software and systems design for physically-entangled systems**

- **Models, tools and methods for design-operations continuum of dependable CPSoS**

Projects will target TRLs 2-5

The Commission considers that proposals requesting a contribution from the EU of between **EUR 3 and 5 million**…

RIA – Research & Innovation Action

Deadline Single Stage: 28 March 2019

European
Commission

ICT-08-2019: Security and resilience for collaborative manufacturing environments

Specific Challenge: As addressed in the **multi-annual roadmap[1] of the FoF cPPP, physically-entangled systems** used in **manufacturing** environments have some specific requirements in terms of reliability and security, which are now challenged by the need for **manufacturing facilities to be digitally connected with external partners in the value chain**. While **free flow of data** is a primary requirement for digitisation of industry, it poses significant challenges in terms of **data security**, which cannot be solved easily because the factory of the future must **exchange digital information with the outside world just like raw materials and components**. There is a need to develop practically usable solutions which can guarantee an **adequate level of security without limiting the capability to exchange data and information** both on the manufacturing floor and **beyond the factory**.

ICT-08-2019: Security and resilience for collaborative manufacturing environments

Scope: Proposals need to develop **tools and services guaranteeing an adequate level of data security for digital collaboration between manufacturing environments and value chains.** …… **Semi-autonomous or fully autonomous solutions, requiring little or no local supervision are encouraged**.

…at least **one use case** which will demonstrate measurable and significant improvements over state of the art tools and methods under real-world conditions.

Proposals will target TRL 5 to 7

The Commission considers that proposals requesting a contribution from the EU of between **EUR 4 and 6 million**…

RIA – Research & Innovation Action

Deadline Single Stage: 28 March 2019

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