Research Line

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EUSAiR: EU Regulatory Sandboxes for AI
ALFONSO VALENCIA

EUSAiR aims to support the implementation of AI regulatory sandboxes across the EU as mandated by the AI Act.

The project focuses on providing standardized frameworks, technical and legal capacities, and fostering cooperation among Member States. It also aims to ensure broad access to sandboxes for AI innovators, particularly SMEs and startups, by...

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OSAwards: OSAwards.eu
ANNA ESCODA SABATER

In its 30-month duration, OSAwards.eu will establish a European Public Recognition Scheme for Open Source (OS) Software (SW) and Hardware (HW). This system for European Awards will foster interest in contributions, and promote greater integration, utilisation and exploitation of OS SW and HW assets in Europe.

It will do this by:

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ATARI: Atmospheric and Solar Research and Innovation in the Eastern Mediterranean
EMANUELE EMILI

ATARI aims to strengthen the expertise and improve the research profile of ECoE, through the collaboration with three research institutes and one SME in the field of atmospheric and solar radiation modelling and remote sensing. The collaborating institutions consist of highly experienced developers of global use models, linked with bodies such as the world meteorological...

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HiPART: High-Performance technology for Advanced Real-Time systems

SARA ROYUELA ALCAZAR

The demands of our rapidly evolving society, coupled with the ever-expanding scope of industrial applications, urge a substantial leap forward in the autonomy and intelligence of complex Cyber-Physical Systems (CPSs), like those used in autonomous mobility and space exploration initiatives. These systems involve a physical part, with sensors and actuators, and a computing...

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DUST-DN: Doctoral Network on Atmospheric Dust

CARLOS PEREZ GARCIA PANDO

Atmospheric dust gives us one of the most visible and detectable aspects of transboundary transport of atmospheric constituents, impacting visibility, radiation and climate. What is less evident are its impacts on health, transportation and energy production.

Atmospheric dust is not fully understood at the fundamental level and models fail to fully...

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SYNTHIA IHI: Synthetic Data Generation Framework for Integrated Validation of Use Cases and AI Healthcare Applications
ALFONSO VALENCIA

SYNTHIA is an ambitious collaboration between public and private institutions to facilitate the responsible use of Synthetic Data (SD)in healthcare applications. The project will improve the methodological and technical aspects of SD Generation (SDG) by developingnew techniques and advancing established ones for different data modalities, including genomics and imaging, to...

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VICT3R IHI: Replacing Concurrent Control Animals with Virtual Control Groups in Animal Studies
ALFONSO VALENCIA

VICT3R aims to significantly reduce the number of animals used in experimental studies performed during the nonclinical drug andchemical safety evaluation by replacing the animals of the concurrent controls groups (CCGs) with Virtual Control Groups (VCGs). These VCGs will be generated by means of state-of-

the-art statistical or artificial intelligence (AI) approaches that...

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TeresIA: TERESIA. Portal de acceso a Terminologías en España y servicios de Inteligencia Artificial
MARTIN KRALLINGER

La lengua española, con casi 493 millones de hablantes nativos1, es una de las lenguas más relevantes a nivel internacional y con mayor perspectiva de crecimiento por los más de 22 millones de personas que lo estudian anualmente en el mundo2. Tanto el proceso de digitalización como el avance de la economía del conocimiento, basada en generar...

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DYMAN: DYnamically MANaged self-cooling HPC Data Centers
SERGI GIRONA TURELL

DYMAN targets the development of a completely new design of adsorption chillers based on the following innovation:

- New low temperature adsorbents achieving high capacities at very low driving temperatures below 50 °C.
- New type of adsorption heat exchangers made of 3D...

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PRECISEU: PeRsonalised medicine Empowerment Connecting Innovation ecoSystems across EUrope
ALFONSO VALENCIA

The general purpose of PRECISEU is connecting innovation ecosystems across Europe to efficiently advance towards a trulypersonalised healthcare, transferring practices and solutions from region to region and scaling up deep-tech healthcare innovationsbased on advanced therapies medicinal products and health data across Europe.

The PRECISEU consortium...

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