

Research Line

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Showing 1 - 10 results of 498

[ID-Extremes: Digital Technology Development Award in Climate Sensitive Infectious Disease Modelling](#)
[RACHEL LOWE](#)



Interacting and successive extreme climatic events, such as droughts and floods, can trigger outbreaks of multiple infectious diseases. These compound hazards can devastate communities if risk reduction plans are not implemented to protect vulnerable populations. Recent methodological advances in climate-sensitive disease modelling have allowed the quantification of the combined impact of...

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[AIR: Air for European Resilience](#)
[FERNANDO CUCCHIETTI](#)



The AIR project responds to Europe's aspiration for leadership and reflects the common essence and concern essential to all Europeans, indeed to everything on the planet, the air we breathe. Air is considered an environmental quality, a meeting space and a space for expression: it does not distinguish between countries or social classes. Air means sustainability, an indicator...

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[MOANA: Marine climate change refugia for insular mesophotic ecosystems in the south pacific ocean](#)
PABLO ORTEGA



Mesophotic coral ecosystems are described as warm water light-dependent corals and associated communities that inhabit depths from 30 m to over 150 m in tropical and subtropical regions. These ecosystems have high ecological relevance as they can act as potential re-seeding areas for shallow ecosystems, harbor endemic and rare species, and provide suitable habitats to support...

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X4HPC: Xarxa per a la transferència de tecnologies de supercomputació d'altres prestacions a la societat (X4HPC)

ANNA ESCODA SABATER



El principal objectiu de la xarxa per a la supercomputació X4HPC és el de gestionar i cohesionar l'ecosistema de centres de recerca, empreses i institucions que tenen com a denominador comú el desenvolupament de solucions tecnològiques en base a la supercomputació.

La X4HPC també té per objectiu el de...

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CONVERGE: Telecommunications and Computer Vision Convergence

MARIA CRISTINA MARINESCU



Telecommunications and computer vision have evolved as separate scientific areas. This is envisioned to change with the advent of wireless communications with radios operating in the millimetre-wave frequencies and up to the sub-THz, characterised by line-of-sight operating ranges, which could benefit from visual data to accurately predict the wireless channel dynamics such...

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[REBECCA: Reconfigurable Heterogeneous Highly Parallel Processing Platform for safe and secure AI](#)
[JAUME ABELLA FERRER](#)



REBECCA, a heavily SME-driven project, will democratize the development of novel edge AI systems. Towards this aim, REBECCA will develop a purely European complete Hardware (HW) and Software (SW) stack around a RISC-V CPU, which will provide significantly higher levels of a) performance (e.g., inferences per second), b) energy/power efficiency (e.g., inferences per...

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[Polar2MidLat: Polar-to-mid-latitude climate linkage effects on cold air outbreaks](#)
[RAMIRO IGNACIO SAURRAL](#)



Cold air outbreaks are typical of the mid-latitude climate during the cold season. Their relevance relies on the threat to life caused by the long-lasting periods with abnormally low temperatures, the potential of damage to crops, and the occurrence of high-impact weather events such as heavy snow and low visibility during blizzards.

Previous studies...

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[NEL-AINA PERTE: NEL - AINA - Real decreto - PERTE LENGUAS COOFICIALES - Red.es MARTA VILLEGAS](#)



NEL-AINA se enmarca dentro del Proyecto Estratégico para la Recuperación y Transformación Económica (PERTE) de la Nueva Economía de la Lengua que tiene por objeto impulsar en España la nueva economía digital basada en el lenguaje natural, aprovechando el potencial del español y de las lenguas cooficiales como factor de...

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[MePreCiSa: Aplicaciones de Machine Learning para el reconocimiento y el pronóstico de eventos complejos. MePreCiSa - Medicina de Precisión para Ciudades Saludables ALFONSO VALENCIA](#)



La ausencia de una plataforma que incorpore datos de movilidad, indicadores de salud, indicadores socioeconómicos y medioambiente con un entorno de análisis y simulación limita en gran medida la gestión integrada de los problemas de salud en las ciudades. El objetivo global de MePreCiSa es ofrecer una solución cloud, flexible y escalable...

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[COLMENA: COLaboración entre dispositivos Mediante tecnología de ENjAmbre](#)
[RAUL SIRVENT PARDELL](#)



The COLMENA project addresses data processing challenges in the IoT landscape, where data collection predominantly occurs on IoT devices, but about 80% of processing occurs in centralized data centres. This approach leads to communication delays, high energy consumption, and underutilization of device resources. COLMENA seeks to transform this...

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