

SAFEXPLAIN

MAKING CRITICAL AI-BASED SYSTEMS SAFE



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"Customizing and digitizing deep learning solutions lets us guarantee that our solutions are explainable, trustworthy and that they meet the strict safety standards for use in European industries."



UPCOMING EVENTS

Webinar: AI-FSM- Towards Functional Safety Management for Artificial Intelligence-based Critical Systems

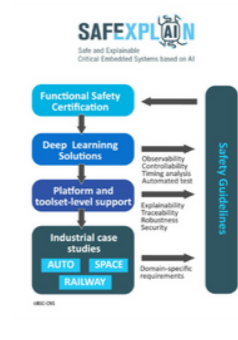
Date: 4th July 2024

Location: Online

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CHECK OUT OUR CASE STUDIES

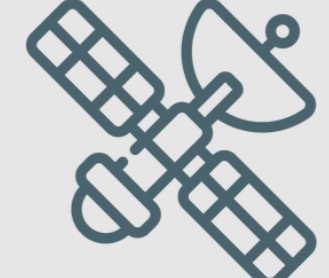
AUTOMOTIVE



RAILWAY



SATELLITE



READ THE LATEST NEWS ON THE PROJECT



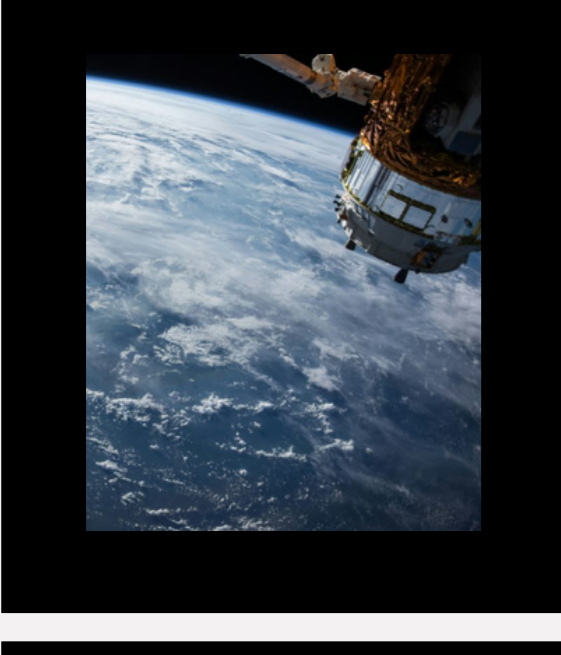
[Successful showcase of SAFEXPLAIN use cases at Trustworthy AI webinar](#)

SAFEXPLAIN partner Enrico Mezzeti from the Barcelona Supercomputing Center joined 8 other Horizon Europe-funded projects under call HORIZON-CL4-2021-HUMAN-01-01 to present the project's work on Trustworthy AI and its implications for its use cases. See the video here.



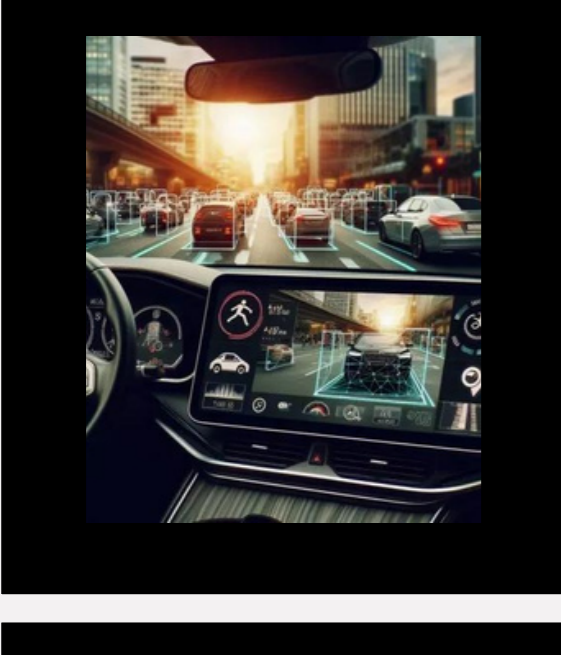
[A Tale of Machine Learning Process Models at Automotive SPIN Italia](#)

The SAFEXPLAIN project perspective was introduced in relation to the (A)SPICE ML model at the 22nd workshop on Automotive Software and System as part of SPIN Italia. Find the presentation here.



[Safely docking a spacecraft to a target vehicle](#)

The space scenario envisions a crewed spacecraft performing a docking manoeuvre to an uncooperative target on a specific docking site. The safety goal is to dock with adequate precision and avoid crashing or damaging the assets.



[Exploring AI-specific redundancy patterns](#)

Artificial intelligence, and more specifically, Deep Learning algorithms are used for visual perception classification tasks, like camera-based object detection. Within the framework of the SAFEXPLAIN project, the Barcelona Supercomputing Center (BSC-CNS) is exploiting AI software's tolerance of approximate results, specifically in safety-critical applications.



[SAFEXPLAIN Opens CARS WS and Shares Work on AI-FSM](#)

The keynote talk examined the potential for AI to drive the creation of autonomous safety-critical systems. It also addressed the challenges for integrating the latest AI technologies with existing safety engineering practices and safety standards to ensure trustworthiness. Following the keynote speech, IKERLAN presenters delved deeper into the challenges faced by critical automotive applications, namely 1) Risk analysis and assessment, 2) Safety-critical system development, and 3) Resilience and other issues.

OUR CONSORTIUM



COLLABORATION ACROSS PROJECTS

