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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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-01-01to present the project's work on TrustworthyAI 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 22° 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 applicatinos, namely 1) Risk analysis and assessment, 2) Safety-critical system development, and 3) Resilience and other issues.

OUR CONSORTIUM

Barcelona Supercomputing Center
Centro Nacional de Supercomputación

AIKO INFINITE WAYS TO AUTONOMY

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MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

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COLLABORATION ACROSS PROJECTS

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