

TRUSTWORTHY AI IN SAFETY CRITICAL SYSTEMS

OVERCOMING ADOPTION BARRIERS

23 SEPTEMBER 2025 | BARCELONA, SPAIN
UNIVERSITAT POLITECNICA DE CATALUNYA- CAMPUS NORD

TIME	SESSION
9:00	Registration - Sala Master
9:45	Panel session: Challenges to AI adoption in Safety Critical Systems <i>Moderated by Irune Agirre (IKERLAN)</i> Jaume Abella (Barcelona Supercomputing Center), Michel Barreteau (THALES cortAIx Labs), Mohammed Abuteir (TTTech Auto)
11:00	Coffee Break and Poster Session ^a
11:30-13:00	Split tracks by project SAFEXPLAIN/ EdgeAI-Trust- Sala Master 11:30 Safety-relevant AI development process and software architecture (<i>Javier Fernández, IKERLAN</i>) 11:50 AI explainability solutions to build safety-relevant AI-based software architectures (<i>Thanh Bui, RISE-Research Institutes of Sweden</i>) 12:10 Platform support to enable safety-relevant AI-based systems (<i>Enrico Mezzetti, Barcelona Supercomputing Center</i>) 12:30 Applying reference safety architecture patterns to decentralized edge AI systems in EdgeAI-Trust (<i>Francisco J. Cazorla, Barcelona Supercomputing Center</i>) 12:45 Leveraging SAFEXPLAIN solutions for distributed AI in EdgeAI-Trust (<i>Carlo Donzella, exida development</i>) ULTIMATE - Sala Agora 11:30 End-to-end Trustworthy AI (incl. Ethics) approach (<i>N. Quintano, Tecnalía / I. Marsh, CBRNE Ltd</i>) 12:00 Satellite Use Case - Problem (<i>A. Giovannini, Thales Alenia Space</i>) - Hybrid AI solution (<i>N. Bastianello, KTH / E. Goudout, Thales cortAIx Labs</i>) - Algorithm evaluation (<i>M. San Miguel. Tecnalía / E. Glize, Thales Alenia Space / D. Longuet , Thales cortAIx Labs</i>) - Demonstrator, results and impacts (<i>A. Giovannini, Thales Alenia Space</i>)
13:00	Lunch
14:00-16:00	Split tracks by project SAFEXPLAIN AI-based safety-critical systems: from demo to space, railway and automotive applications - Space case (<i>Gabriele Giordana, AIKO</i>) - Automotive case (<i>Frank Geujen/ Lucas Tosi , NAVINFO Europe</i>) - Rail case (<i>Joanes Plazaola, IKERLAN</i>) ULTIMATE - Sala Agora 14:00 Robotic workshop Use Case - Problem (<i>S. Bus, PIAP</i>) - Hybrid AI solution, (<i>R. Kozik, ITTI</i>) - Algorithm evaluation (<i>R. Kozik, ITTI/ D. Caon, LNE</i>) - Demonstrator, Results & impacts (<i>S. Bus, PIAP</i>) 15:00 Industrial mobile manipulators Use Case - Problem (<i>M. Bosch, Robotnik</i>) - Hybrid AI solution (<i>K. Chandramouli, CBRNE Ltd / M. Tiemann, Innova Integra Ltd</i>) - Algorithm evaluation (<i>D. Caon, LNE/ C. Alonso, Tecnalía</i>) - Demonstrator (<i>M. Bosch, Robotnik / K. Chandramouli, CBRNE Ltd</i>) - Results, impacts (<i>M. Bosch, Robotnik</i>)
16:00	Coffee Break and Poster Session ^a
16:30	What’s next for AI in safety-critical systems: Insights and the road ahead

^aPosters by: CAPSULIA - Encapsulation Of AI-Based Solutions To Accelerate Their Adoption
EdgeAI-Trust - Decentralized Edge Intelligence: Advancing Trust, Safety, and Sustainability in Europe
SMARTY: Scalable and Quantum Resilient Heterogenous Edge Computing enabling TrustworthyAI
PQC4eMRTD: Post-Quantum Cryptography for electronic Machine-Readable Travel Documents

^{*}BSC will assume the costs of coffee breaks and lunch for each of the attendees. As such, said attendees agree to renounce the corresponding per diem expenses.