AI4CYBER

October 2024

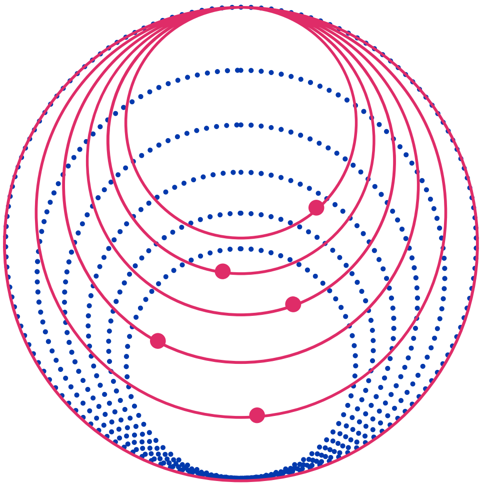
NEWSLETTER

Edition 1, N2

CONTENT

AI4CYBER IN A NUTSHELL

Launched in September 2022, AI4CYBER is an EU-funded research project under Horizon Europe **(GA ID: 101070450)** which brings together 13 partners from 7 EU Member States to develop and test smart cybersecurity services averaging AI and Big Data. The AI4CYBER ecosystem framework brings together 11 AI-based services from different cybersecurity areas. AI4CYBER aims to enhance the security and resilience of critical systems against advanced and AI-powered cyberattacks. It plans to do so by advancing the existing state-of-the-art AI techniques to create specialised solutions for prevention, detection, response and threat intelligence & integrate them in one framework that will be modular and complemented with Trustworthy AI services.



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AI4CYBER STAKEHOLDERS

- Operators of critical systems that have been identified under the NIS2 and CER Directives as essential or important services and called to ensure robust, resilient and secure infrastructures.

- Cybersecurity solution providers that can integrate the AI4CYBER solutions to their services and offer more competitive tools to the market. AI4CYBER services will leverage AI to facilitate, automate and improve the efficiency of their work.

- The scientific community that can use the research undertaken by the AI4CYBER project regarding advanced and AI-powered cyberattacks to progress its own work.

STRUCTURING the AI4CYBER FRAMEWORK

As we mark the second year of the AI4CYBER project, we are proud to highlight significant achievements in developing next-generation AI-based services for cybersecurity. Over the past year, we've made substantial progress in the development of the components of the ecosystem framework that enhances the robustness and resilience of critical systems against advanced cyber threats. Key milestones include the delivery of the initial prototype tools for AI-driven vulnerability identification, cyber threat intelligence, cyber threat detection, and autonomous response mechanisms. Furthermore, we have finalised the integration of the services into the AI4CYBER framework for its evaluation in various proof-of-concept use cases.. Looking ahead, we are excited to continue our efforts in reinforcing cybersecurity through innovative AI solutions and collaborations with our partners.

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AI4CYBER DISSEMINATION, COMMUNICATION & NETWORKING

In its second year, AI4CYBER made significant strides in enhancing the project's visibility and fostering collaboration within the AI and cybersecurity community. Notably, the project organized the "Security Testing & Monitoring Workshop (STAM) 2023 and 2024 at the ACM ARES Conference in Benevento, Italy, held from August 28 to September 1, 2023. AI4CYBER Technical Manager, Eider Iturbe Zamalloa (TECNALIA) presented the project objectives and approach, and potential synergies with six other EU projects focusing on Cybersecurity and AI were explored. Furthermore, a plenary meeting in Budapest (October 17-18, 2023) facilitated the second exploitation workshop, and another workshop, the "Secure Cloud Continuum Workshop (SCC)," was organized in the IEEE CloudCom 2023 conference in Naples, Italy, in December 2023.

As part of the AI4CYBER project, we are continuously delivering a series of publications, including conference papers, that explore advancements and innovations in AI-driven cybersecurity. You can access these publications, which provide valuable insights and updates on our project’s progress, by visiting this link or scanning the QR code below>

Through strategic networking and clustering activities, AI4CYBER has strengthened its dissemination and communication strategy by joining five clustering initiatives, including the Cybersecurity Innovation Cluster for EPES and the European Cluster for Securing Critical Infrastructures (ECSCI). These collaborations enable AI4CYBER to share its objectives, participate in technical discussions, and contribute to whitepapers and other activities enhancing its impact and outreach across different sectors.

The project remains committed to leveraging existing clusters and forming new collaborations to maximize the dissemination of its research outcomes, demonstrating its role as a key player in advancing cybersecurity and AI research within Europe.

READ THE AI4CYBER BLOGPOSTS

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Events

- September 20th, 2024 - "The Double-Edged Sword of AI in Critical Infrastructure Protection" Webinar by EU-CIP & ECSCI.
- September 30th, 2024 - Participation in the ECCO "AI supporting Cyber Risks and Resilience of Critical Infrastructures" Webinar.
- October 22nd-24th, 2024 - ENLIT Conference. Register
- October 23rd, 2024- 18th International Conference on Information Security
- November 13th, 2024 - EU-CIP 2nd Annual Conference. Register
- November 19th-21st, 2024 - Cybersecurity Week. Register

These events provide excellent opportunities for networking, knowledge sharing, and showcasing the project's progress in cybersecurity and AI.

AI4CYBER Consortium

tecnalia MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE

FRONTENDART

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ΔΕΗ

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