ARCADIAN-IoT

Newsletter 5

December 2022

As the year comes to a close, we wanted to take a moment to reflect on some of the accomplishments of the ARCADIAN-IoT project. This year, we had two successful consortium meetings where we discussed the integration of the different components into the framework for trust, security and privacy management for IoT systems.

We are grateful for the hard work and dedication of everyone on the ARCADIAN-IoT team. As we look ahead to the new year, we are excited for the opportunities and challenges that await us. Let's continue to work together and push the boundaries of what's possible with IoT technology.

On behalf of the entire ARCADIAN-IoT team, we wish you and your loved ones a happy and safe holiday season. We look forward to continuing to work with you in the new year.

Best regards,
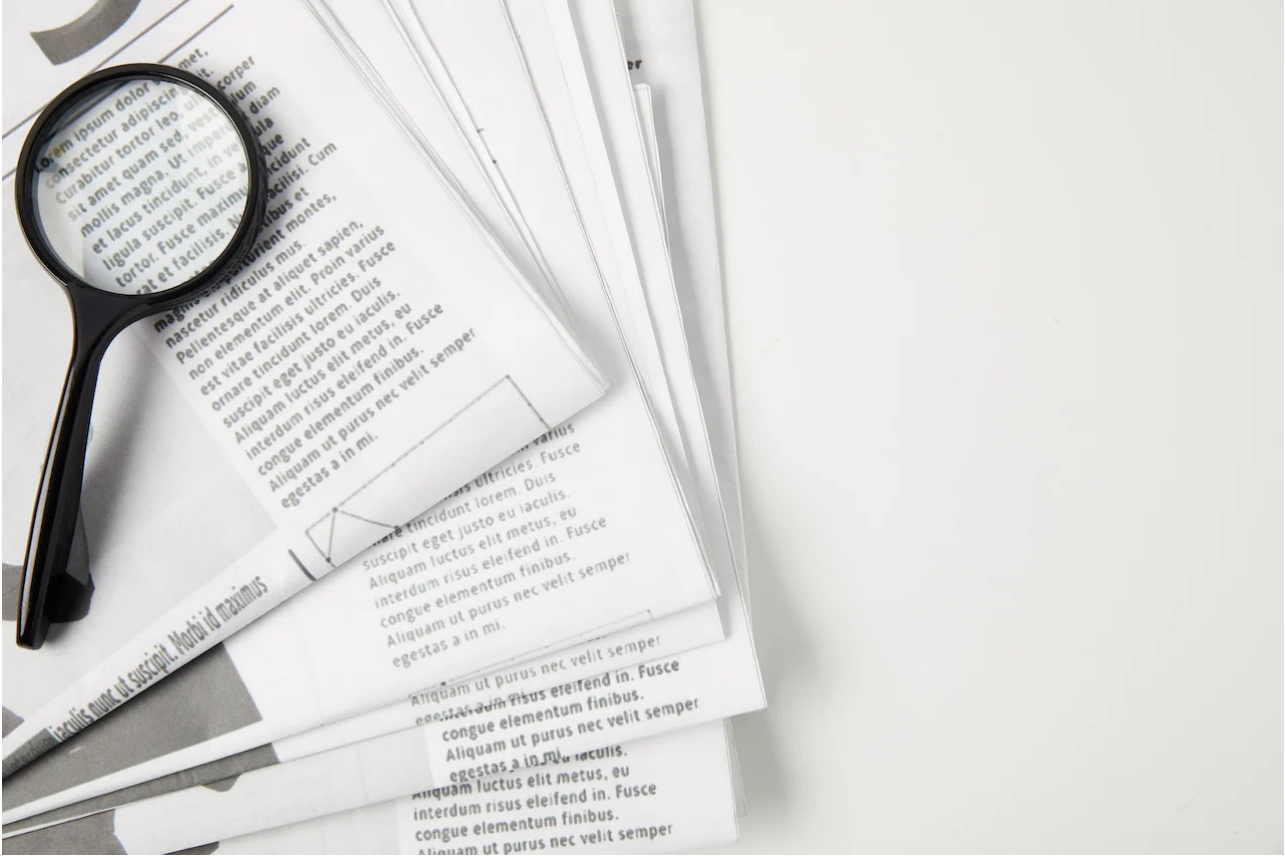
The ARCADIAN-IoT project team

LATEST NEWS

ARCADIAN-IOT 4th Consortium meeting

The EU-funded ARCADIAN-IoT project, led by IPN, held its fourth Consortium meeting in person on the 18th and 19th October 2022, hosted by the partner Atos in Madrid.

Read more

PUBLICATIONS

Enabling Autonomous Trust, Security and Privacy Management for IoT   +

This paper presents ARCADIAN-IoT, a framework aimed at holistically enabling trust, security, privacy and recovery in IoT systems, and enabling a Chain of Trust between the different IoT entities (persons, objects and services). It builds on features such as federated AI for effective and privacy-preserving cybersecurity, distributed ledger technologies for decentralized management of trust, or transparent, user-controllable and decentralized privacy.

Illumination-aware image fusion for around-the-clock human detection in adverse environments from Unmanned Aerial Vehicle   +

This study proposes a novel illumination-aware image fusion technique and a Convolutional Neural Network (CNN) called BlendNet to significantly enhance the robustness and real-time performance of small human objects detection from Unmanned Aerial Vehicles (UAVs) in harsh and adverse operation environments.

XDP-Based SmartNIC Hardware Performance Acceleration for Next-Generation Networks   +

This work presents a novel framework that leverages extended Berkeley

Packet Filter (eBPF) and eXpress Data Path (XDP) to offload network functions to reduce unnecessary overhead in the backbone infrastructure.

Read more

VIDEOS

Medical IoT

This ARCADIAN-IoT domanin is based on IoT medical sensors (single or combined), which interoperate with a secure communication channel. ARCADIAN-IoT will work in a platform that helps to obtain a more "technology-focused" healthcare system in order to ease the action plans under these situations by making accessible the patient data from everywhere and by providing a decision support system for helping in critical situations.

Watch the video

Emergency and vigilance using drones and IoT

ARCADIAN-IoT will accelerate the development towards decentralized, transparent and user controllable privacy in three real domains (use cases). One of them is Emergency and vigilance using drones and IoT which aims to demonstrate the contribution of the Arcadian-IoT platform to the emergency and vigilance scenarios. This domain of implementation covers trust, security, and privacy challenges.

Watch the video

SYNERGIES

The ARCADIAN-IoT project has fruitful collaborations with other EU-funded projects! Here you can find news from other projects.

SPATIAL project

ONE YEAR ON: achievements, lessons learnt and the way forward

One year of achievements, challenges, confrontations and new ambitions.

Read more

Meet projects funded under the same call

TRUST aWARE project
Enhancing digital security, privacy and trust in software

ERATOSTHENES project
IoT trust and Identity management framework

IDUNN project
A cognitive detection system for cybersecure operational technologies

IRIS project
Artificial Intelligence threat reporting and incident response system

SOTERIA project
User-friendly digital secured personal data and prIvacy platform

KRAKEN project
Brokerage and market platform for personal data

SENTINEL project
Bridging the security, privacy and data protection gap for smaller enterprises in Europe

SPATIAL project
Achieving trustworthy, transparent and explainable AI for cybersecurity solutions

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