



SUSTAIN Overview

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Motivation

The Industrial Internet of Things (IIoT) is increasingly being used in production and industrial plants. Particularly in the operation of complex systems, collaborative human-machine interactions or in the control of semi-autonomous systems, the IIOT can help to tap potential for increasing efficiency.

Ensuring both functional safety and technical system security in production and industrial plants is one of the greatest challenges in order to prevent system failures and their serious consequences. Standards developed so far in the safety and security environment do not sufficiently cover IIoT applications. A need for expansion is obvious.



SUSTAIN Übersicht

Goals and procedure

The project "IIoT Security in Material Handling and Production (SUSTAIN)" aims to create a comprehensive IIoT security platform for mechanical and plant engineering and other industrial plants, taking into account current cyber security standards.

The platform is to support the required hardware-based security, various independent security levels and decentralised authentication and authorisation.

Methods, tools and recommendations for action for distributed, collaborative control systems are also being investigated, which will be further developed in such a way that comprehensive certification is possible. In order to create a holistic security concept, the entire production and machine life cycle is considered with regard to cyber security).

SUSTAIN Übersicht

Innovations and perspectives

Industrial production processes are to be secured from a safety and security point of view, with devices and interfaces of different types and different manufacturers being networked with each other over the entire life cycle. The safeguarding of IIoT systems in production, which has received little attention to date, therefore makes an important contribution to Germany's sovereignty.

ANERKENNUNG

Das Projekt erhält Förderung von:



Die Autoren danken allen - Partnern für die gemeinsame Arbeit und Beiträge:

