



New alliance connecting AI and IoT

Device Insight and Sentian launch the era of “Artificial Intelligence of Things”

- + Holistic production optimization with AI + IoT = AIoT
- + Intelligent automation by linking IoT data and smart AI algorithms including reinforcement learning
- + Companies increase production efficiency by up to 30 percent

Munich / Malmö, August 24, 2020 – Device Insight, established provider of IoT and IIoT solutions, and Sentian, a Swedish specialist in industrial AI, are pooling their expertise to help companies optimize their production processes along the lines of a Smart Factory. This cooperation combines both of the most important current fields of technology, AI and IoT, to form an “Artificial Intelligence of Things” (AIoT) and at the same time take the intelligent automation of industrial manufacturing processes to a whole new level, enabling companies to increase the efficiency of their production by up to 30 percent.

Until now, most industrial companies have concentrated on predictive maintenance, leaving the opportunity to optimize their core processes with the help of artificial intelligence unused. In fact, it is precisely these gradual improvements in production processes that offer promising business value, enabling companies to significantly increase their product quality level as well as the efficiency of their operations.

AIoT makes industrial production “smart” – consistent and durable

The goal of the innovative AIoT approach is to continuously reduce deviations from the optimum within manufacturing processes. Fewer deviations mean improved machine and system performance, less waste and lower costs – and above all, more highest-quality products. The result: income and profit, as well as customer satisfaction will increase noticeably. Production will be transformed into a Smart Factory.



Linking IoT know-how and AI expertise

For the implementation of AIoT projects, Device Insight brings its expertise in connecting machines, aggregating and managing IoT data and linking AI applications into the partnership. Additional added value is created by the Munich-based IoT pioneer's many years of expertise in the analysis and visualization of evaluations based on high-performance IoT components. Swedish AI specialist Sentian contributes its advanced algorithms and solutions that help reduce deviations within individual production processes or even entire plants. Sentian's mathematical optimization approach is groundbreaking, allowing fast and extremely precise planning as well as flexible replanning throughout production. Another special component is Sentian's novel, model-based approach to "Reinforcement Learning" – the latest development in deep learning.

Why predictive maintenance is not enough

Thanks to this unique combination of AI and IoT, Device Insight and Sentian are now able to accompany companies on the way to intelligent production – away from individual solutions and selective improvements, such as those possible with predictive maintenance, and towards a holistically optimized smart factory.

"Predictive maintenance is still very important for the industry. When it comes to process optimization, however, predictive maintenance can only be of limited help," says Marten Schirge, Managing Director at Device Insight. "The real challenge within industry lies elsewhere. These days, many control systems are outdated and not very adaptable, while at the same time machines are becoming increasingly complex. This is the conflict area where we begin with AIoT. Together with our partner Sentian, we want to help companies fully exploit the hidden potential for better efficiency, higher quality and ultimately more profit."

"Bringing AI to the core of production enables companies to truly benefit from AI" says Martin Ruffelt, CEO at Sentian. "The potential of AIoT and our cooperation to deliver fully scalable solutions provides proof of value rather than just technical proofs. AI is ready to be operationalized."



**Are you interested in specific AIoT use cases or in a discussion with our AIoT experts?
We are always at your service should you have any further queries.**

Whitepaper “Why Predictive Maintenance is not enough – Intelligent Automation with AIoT”: [Download](#)

Film “Beyond Predictive Maintenance – Intelligent Automation with AIoT”
[Watch here](#)

About Device Insight:

Founded in 2003 in Munich, Device Insight GmbH is an IoT specialist, accompanying companies in their digitization in the fields of Internet of Things, Industry 4.0 and artificial intelligence. Based on a flexible IoT framework, Device Insight combines ready-to-use IoT building blocks and microservices with individual applications for customized IoT services. System integration based on common cloud providers and development are combined to create tailored solutions that are both fast and scalable. Device Insight supports global networking of machines, vehicles, plants and devices and provides applications in the fields of data acquisition, condition monitoring, predictive maintenance, machine learning, industrial analytics and AIoT (Artificial Intelligence of Things). Device Insight works in over 15 countries worldwide with large enterprises and mid-size customers from various sectors, including machinery and plant engineering, HVAC, commercial vehicles, vending, transport, energy as well as the Connected Home sector. Services range from business case analysis and implementation to secure IT operations. The company has been awarded “Internet of Things (I4.0) Leader Germany” on numerous occasions by the ISG Provider Lens study. Since 2019, Device Insight has been a subsidiary of automation specialist KUKA AG.

About Sentian.ai:

Sentian.ai is an industrial AI company that provides AI solutions and services to both manufacturing and process industries. Sentian.ai has an extensive research program in applied AI to be able to deliver leading edge products that give its customers a competitive edge. Sentian.ai offers three products: ICON (Intelligent Control Optimization) that boosts existing control and automation solutions with AI, Predictive Maintenance for large scale implementations in distributed environments as well as factory floor, from cloud to edge and its world leading nonlinear optimization solver for production planning, supply chain optimization and personnel planning optimization. Sentian.ai has been recognized for its leading AI technology and solutions multiple times.

PRESS RELEASE

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