



Connected, Intelligent Devices: Where Cloud Meets Edge

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Rapid development and production deployments of connected devices, coupled with AI-driven methods of advanced analytics, have led to an explosion in demand for scalable and secure platforms for computing, storage, and application development. This increasing demand, driven in part by the need for machine learning on large datasets, is being seen in the public cloud as well as in cloud-connected IoT edge devices.

AI is at the heart of many the newest, most advanced analytics and IoT applications, ranging from robotics and autonomous vehicles, to cloud-connected products such as Amazon Alexa, to smart factories and consumer-facing services in the financial and healthcare sectors.

This talk presents examples of such use-cases within Amazon, as well examples of how Amazon customers and partners increasingly rely on AI, coupled with cloud- and edge-enabled IoT hardware and software stacks, in support of industrial, consumer, medical, and other applications. The talk will conclude with an overview of how the development of such systems – including semiconductor devices – is enhanced through the use of cloud-based semiconductor design and verification.