Tuesday, March 30, 2021

Vision spectra

WEBINARS

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Bringing AI Inference to the Edge: AI Processing for Imaging Devices

Tuesday, April 13, 2021 10:00 AM - 11:00 AM EDT
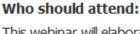
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.: About This Webinar

Smartphones, robots, drones, cameras — these devices will soon need integrated AI processing to keep up with current markets. If the implementation should happen directly on the imaging device, it may then become especially complex and interesting to designers and end users. But what are the challenges and benefits of using AI on an edge device? And how can companies keep up as AI-based imaging becomes mainstream?

In this talk, Rastislav Struharik , Ph.D., will discuss hardware options available for implementing AI acceleration on edge devices and how they differ from each other. While functioning approaches and solutions are already available, few are sufficiently flexible to keep pace with the rapidly progressing technological development. This webinar will explain the differences in detail, concluding with an open Q&A.

Image courtesy of IDS Imaging Development Systems GmbH.

Who should attend:
This webinar will elaborate on trends in AI for imaging devices. It is relevant especially to professionals working in R&D, manufacturing, consulting, and other areas surrounding the design and purchase of and/or education about AI processing applications. These applications may include AI for aerospace, medical, and environmental industries, but this webinar is a general overview for many fields. All those interested in the emerging field of "Edge AI" in the current market will learn about its implementation into imaging devices — how to do it, why it can be beneficial, and what challenges companies and end users face today.

About the presenter:
Rastislav Struharik, Ph.D., is an associate professor at the Department of Power, Electronic and Telecommunication Engineering, Faculty of Technical Sciences, University of Novi Sad, Serbia. He received his Ph.D. in electronics in 2009. During his academic career, he has published more than 35 papers in international journals and conferences, mainly focusing on the hardware acceleration of machine learning algorithms, such as decision trees, support vector machines, artificial neural networks, convolutional neural networks, and ensemble classifiers — targeting both learning and inference algorithms. For the past three years he has also been working as chief architect for IDS's FPGA IP core technology, intended for the hardware acceleration of convolutional neural networks for edge AI applications.

About IDS Imaging Development Systems GmbH:
IDS is a leading manufacturer of digital industrial cameras with USB or GigE interface as well as 3D cameras with a wide range of sensors and variants. With the highly flexible, intelligent IDS NXT industrial cameras for deep learning-based tasks and adaptive robot vision solutions, the company is opening up new dimensions in image processing. IDS image processing components are developed exclusively in Germany, produced there in a resource-saving manner, and sold worldwide. Since its founding in 1997 as a two-man company, IDS has developed into an independent, ISO-certified family business with more than 300 employees. The headquarters in Obersulm, Germany, is both a development and production site. With branches in the U.S., United Kingdom, Japan, and South Korea as well as other offices, IDS is represented internationally.

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