

# Vision spectra

## WEBINARS

Join us for a **FREE Webinar**

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

**Tuesday, April 13, 2021 10:00 AM - 11:00 AM EDT**

[Register Now](#)

Presented by



## .: 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.

## .: Mark Your Calendar

**Date: Tuesday, April 13, 2021**

**Time: 10:00 AM - 11:00 AM EDT**

Space is limited. Reserve your Webinar seat now at: <https://attendee.gotowebinar.com/register/2763033551747497485?source=Eblast>

After registering you will receive a confirmation email containing information about joining the Webinar.

## SYSTEM REQUIREMENTS

#### Operating System

Windows® 7 or later, Mac OS® X 10.9 or later, Linux®, Google Chrome™ OS  
Android™ OS 5 or later, iOS® 10 or later

#### Web Browser

Google Chrome™ (most recent 2 versions)  
Mozilla Firefox® (most recent 2 versions)

#### Mobile Devices

Android™ 5 or later  
iPhone® 4S or later  
iPad® 2 or later  
Windows Phone® 8+, Windows® 8RT+

## .: More from Photonics Media

### Upcoming Webinars

- Photonics Entrepreneurship Series: [Selling New Technology, Challenges & Best Practices](#), 4/8/2021 1:00:00 PM EDT

### Archived Webinars

- [Smart Lens Actuator Design Securing Perfect Coaxial Lens Displacement over Full Stroke](#)  
- [How the Kinetix sCMOS Camera Broke the Golden Rule of Compromise in Scientific Imaging](#)  
- [Choosing the Right Fused Silica for Applications in the Near-Infrared \(NIR\)](#)

### Don't miss out!

Sign up for our [Webinar Alerts](#) email today and never miss an upcoming event.

We respect your time and privacy. You are receiving this email because you are a Photonics Spectra magazine subscriber. You may use the links below to manage your subscriptions or contact us.

Questions: [info@photonics.com](mailto:info@photonics.com)

[Unsubscribe](#) | [Subscribe](#) | [Subscriptions](#) | [Privacy Policy](#) | [Terms and Conditions of Use](#)

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949  
© 1996 - 2021 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.