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Simplifying AI in Machine Vision with IDS NXT Ocean

Tuesday, May 26, 2020 1:00 PM - 2:00 PM EDT

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Presented by



About This Webinar

This webinar will help familiarize end users, machine builders, and systems integrators with the world of AI in machine vision. The talk will cover convolutional neural networks (CNNs) and how they are used in machine vision, the key steps to deploying AI into machine vision solutions, and how the IDS NXT ocean platform has simplified these steps for users who are not AI specialists. The IDS NXT ocean platform enables users to grab and label product data, use this data to train CNNs in IDS NXT lighthouse cloud-based training software, and deploy this solution all with one device.

With the more complicated portion of deep learning taken care of, users can focus on getting the best quality data from their systems and use it to train a tailored solution for their unique problem. The webinar will also touch on best practices regarding images captured by the user and provided as input to the CNN. Running the trained AI is painless on the IDS NXT deep ocean core, which employs FPGA technology to perform hardware-accelerated execution of the trained CNN on the camera. This core and hardware package affords your application excellent efficiency in high inference/watt, and performance in low inference times.

About the presenter:

Kevin McCabe is a senior application engineer at IDS Imaging Development Systems Inc. McCabe joined IDS Imaging in 2012 as an application engineer and is responsible for technical inquiries across North America. He currently focuses on helping other engineers integrate IDS 2-D, Ensenso 3-D, and NXT AI-based cameras and provides in-depth product training to customers, distributors, and resellers to ensure a quick time to market. Throughout his seven years at the company, McCabe has helped solved applications such as bin picking, palletizing/depalletizing, logistics automation, quality assurance, and ITS. He holds B.S. and M.S. degrees in electrical engineering from the University of Massachusetts Lowell.

Who should attend:

Engineering, R&D, manufacturing, and testing/quality control professionals in the biophotonics and industrial fields as well as in electronics, automotive, aerospace, medical, and any other fields that use machine vision. Newcomers to AI in machine vision will benefit from this webinar, as well as anyone who wants to understand the benefits of implementing AI-based machine vision into their applications.

About IDS Imaging Development Systems:

IDS stands for high-performance and easy-to-handle USB, GigE, and 3D cameras with a great range of sensors and variants. With IDS NXT, the company has created a platform for a new generation of vision systems for industrial applications. IDS NXT ocean offers customers a complete solution that includes not only the required hardware components but also online access for intuitive training of neural networks for their own AI.



Mark Your Calendar

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