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Vision Systems for Deep Learning

Thursday, December 12, 2019 1:00 PM - 2:00 PM EST
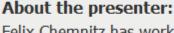
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About This Webinar

Algorithms for artificial intelligence are improving rapidly, especially in the domain of artificial neural networks (ANNs). In the medical and life sciences fields, in particular, many classification problems that were once considered to be "nonsolvable" by machines can now be solved with an impressive level of accuracy and robustness. While algorithm development has progressed quickly, accelerated by huge companies such as Google and Facebook, the implementation and deployment of ANNs remains a challenging problem for vision system developers worldwide.

This webinar will give you an overview of three different types of vision systems that can be used to deploy a trained neural network in the medical and life sciences fields. A vision system consists of a camera, a data interface, and a processing unit. The three system architectures are embedded, PC-based, and FPGA-based. The webinar will discuss how these system architectures differ in their total cost of ownership, in the engineering effort required to deploy them, and in overall system performance.

About the presenter:
Felix Chemnitz has worked for Basler AG since 2015. In his current position as product market manager medical, he is responsible for the Basler product portfolio in the medical and life sciences markets. Before joining Basler AG, he worked for several years as account manager at a leading German engineering service provider. In that role he supported customers from all areas of the industry in personnel selection and project management. He holds a degree in industrial engineering (Dipl. Wirt. Ing., FH).

Who should attend:
Engineering and technical professionals, especially from the medical and life sciences industries, who are using or considering the use of vision systems for deep learning. Anyone whose work involves the implementation of deep learning and other aspects of machine vision will benefit, as will anyone who wishes to learn more about deep learning, ANNs, and their impact on machine vision.

About Basler AG:
Basler is an internationally leading manufacturer of high-quality cameras and accessories for applications in medicine, factory automation, traffic, and a variety of other markets. The Basler Group is home to approximately 800 employees at its headquarters in Ahrensburg, Germany, and at other locations in Europe, Asia, and North America. Basler cameras are well suited for various vision applications in medicine, diagnostics, and life sciences. They can be used in microscopy, laboratory automation, and diagnostic equipment, such as in hematology, pathology, and ophthalmology. The company's separate production line for the Basler MED ace cameras ensures compliance with the quality management standards of ISO 13485:2016.

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