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The field of computer vision brings together image processing, feature extraction, and machine learning to enable computer systems to understand and act upon image data.

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The "processors for vision" technology category includes any device that executes embedded vision algorithms or vision system control software. In a typical computer vision pipeline, processors are often optimized for the compute-intensive portions of the software workload.

### **Processors for Embedded Vision**

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COMPUTER VISION CS-6350 Prof. Sukhendu Das Deptt. of Computer Science and Engg., IIT Madras, Chennai - 600036. ... ( Computer Vision, Graphics & Image Processing) - IJCV (International Journal of Computer Vision) ... "Low-level processing: specialized hardware device designed

### **COMPUTER VISION CS-6350 - Department of Computer Science**

Specialized processors designed to deliver high-performance machine vision at ultra-low power. ... 1018/DW/CMD/PDF 338284-001US 3. Title: Introducing Intel® Vision Accelerator Design Products ... vision accelerator design, vision products, computer vision, ai, movidius vpu, arria 10, deep neural network inference, video data, edge video ...

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### **A Real-Time Computer Vision Library for Heterogeneous**

The CEVA-XM4 imaging and computer vision processor IP solves the most critical issues for the

development of energy-efficient embedded vision systems. ... specialized AI processors, scaling in performance for a... CEVA-XM6. The CEVA-XM6 is a fifth-generation imaging and computer vision processor IP from CEVA, and is designed to bring deep ...

### **CEVA-XM4 - The Intelligent Vision Processor - CEVA**

Smart imaging and computer vision for camera-enabled applications. From mobile devices to autonomous drones, and from surveillance equipment to automotive safety systems, intelligent image processing and computer vision are fundamental challenges for today's system designers.

### **Imaging & Computer Vision | CEVA**

prediction, computer vision, or autonomous navigation. ARCH2030: A VISION COMPUTE ARCHITECTURE RESEARCH VE TH NEXT 15 YEARS 2 ... vision for how a large number of highly specialized processors can be deployed in concert to drastically accelerate critical applications<sup>11</sup>. The scale of the

### **Arch2030: A Vision of Computer Architecture Research over**

In many respects, computer vision is an "AI-complete" problem: building general-purpose vision machines would entail, or require, solutions to most of the general goals of artificial intelligence.

### **Computer Vision - University of Cambridge**

Computer vision falls short of human vision in two respects: execution time and intelligent interpretation. This book addresses the question of execution time. It is based on a workshop on specialized processors for real-time image analysis, held as part of the activities of an ESPRIT Basic Research Action, the Working Group on Vision.

### **Computer Vision: Specialized Processors for Real-Time**

Implementing Computer Vision Functions with OpenCL on the Qualcomm Adreno 420 By the staff of ... specialized processing engines are often a great fit for computer vision algorithms, which are ... offload vision algorithms from the CPU to the GPU in a demonstration application, and discuss ...

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