Visual processing sparks a new class of processors

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Abstract. Augmented reality, gesture interfaces, and automotive driver assistance systems enable novel user experiences, safer rides, and new usage models. Bringing these systems to market requires a power-efficient architecture and many billions of operations per second of processing. Widely adopted processing architectures like CPUs and GPUs can't fulfill the requirements, sparking a new class of video and vision processors. In this talk we'll give a quick overview of applications, typical algorithms, and their implications on computer architecture. We will focus on the automotive market, where computer vision is the key technology to enabling autonoumous vehicles hitting the road.

Biography

Marco Jacobs, VP Marketing at videantis, has over 15 years of experience in the semiconductor IP industry and multimedia applications. At videantis, he is responsible for corporate and product marketing and works with key semiconductor manufacturers to bring novel, higher-quality video and vision applications to their customers. Prior to joining videantis, Marco was VP of Marketing at Vector Fabrics, Director of Multimedia Marketing at ARC, held management positions at semiconductor startups Silicon Hive (acquired by Intel) and BOPS, and was a software architect at Philips. Marco studied computer science at the Delft University of Technology in the Netherlands and at the University of North Carolina, Chapel Hill. He holds 7 issued patents.