

## **MIXING BIOLOGY AND ELECTRONICS TO CREATE VISION CHIPS**

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### **Abstract**

Vision chips are smart visual sensors. These sensors have integrated image acquisition and parallel processing; Vision chips have empowered electronic devices with the capability of observing the things and making the concept of machine vision a practical reality. Whereas computer vision is mainly focused on machine based image processing, machine vision most often requires also digital input/output devices and computer networks to control other manufacturing equipment such as robotic arms. These vision systems are connected to large number of computers, which precludes their use in small mobile robots.

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