Frontiers in Computer Vision

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Abstract

Computer vision researchers are inventing and developing algorithms to provide a more efficient interface between imaging devices and humans. Applications being investigated include video surveillance, diagnostic medical imaging, image-guided surgery, microscopy, industrial metrology, and industrial inspection. Early commercial application of computer vision focused on processing images to perform repetitive, well-defined tasks. Now, fueled by open-source code development and Moore's Law, both the adaptability and end-value of computer vision systems are accelerating, and the application space is broadening. Computer vision technology is becoming integrated within imaging devices. Vast information databases are being leveraged to improve both pixel-based calculations and high-level understanding algorithms. We are at the dawn of computers understanding images.

Author Biography

Mark Grabb leads Visualization and Computer Vision research for General Electric. He joined GE Research in 1996 and was appointed Lab Manager in 1999. He earned a PhD from the University of Michigan. He holds over a score of patents and is a registered patent agent.