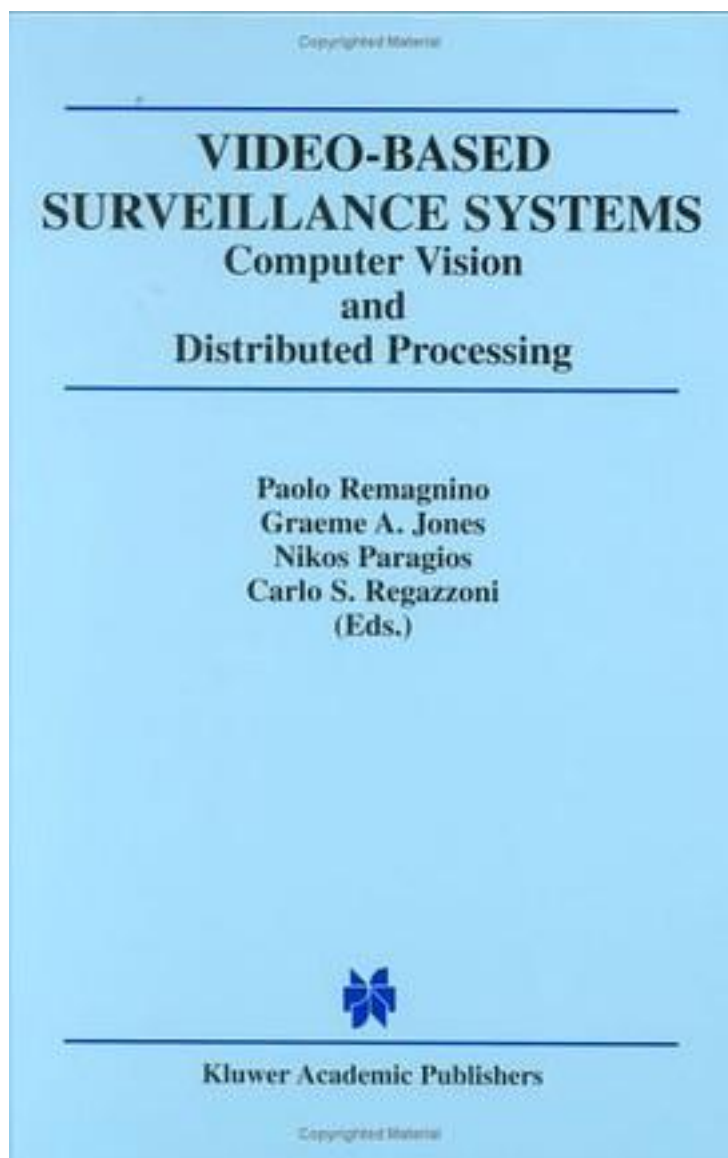


Video-Based Surveillance Systems



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The latest generation of visual surveillance systems have adopted recent technological developments in acquisition and communications. These advances have not so much changed the nature of surveillance as extended its reach and reliability.

Fundamentally, systems remain relatively unintelligent with human operators remaining central to the threat assessment and response planning procedures found in CCTV installations. Nonetheless, the availability of high-performance computing platforms will ensure that cycle-hungry intellectual property gestating in academic and industrial research programs will have a major impact on the next generation of products. Video-Based Surveillance Systems: Computer Vision and Distributed Processing, surveys works in progress in laboratories from around the world. The first part of the book present the most recent trends in the industrial world including real-time systems for monitoring of indoor and outdoor environments, society infrastructures such as subways and motorways, retail stores and aerial surveillance. Part Two explores current best practices in a chain of algorithms required to perform robust and accurate real-time tracking for motion detection involving rapid and frequent lighting changes, the establishment of accurate temporally consistent object trajectories particularly in crowded scenes, and the classification of object types. Part Three contains contributions which attempt to analyze events unfolding in a monitored scheme. The last part reviews distributed intelligent architectures which are likely to exploit three key recent technological developments in light-weight distributed computing methodologies, and intelligent sensors. Such architectures, in which signal analysis is moving towards sensing devices, can exploit the reduced bandwidth requirements of transmitting knowledge rather than pixels. Video-Based Surveillance Systems: Computer Vision and Distributed Processing provides timely information for professionals working in the areas of surveillance, image processing, computer vision, digital signal processing and telecommunications.

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