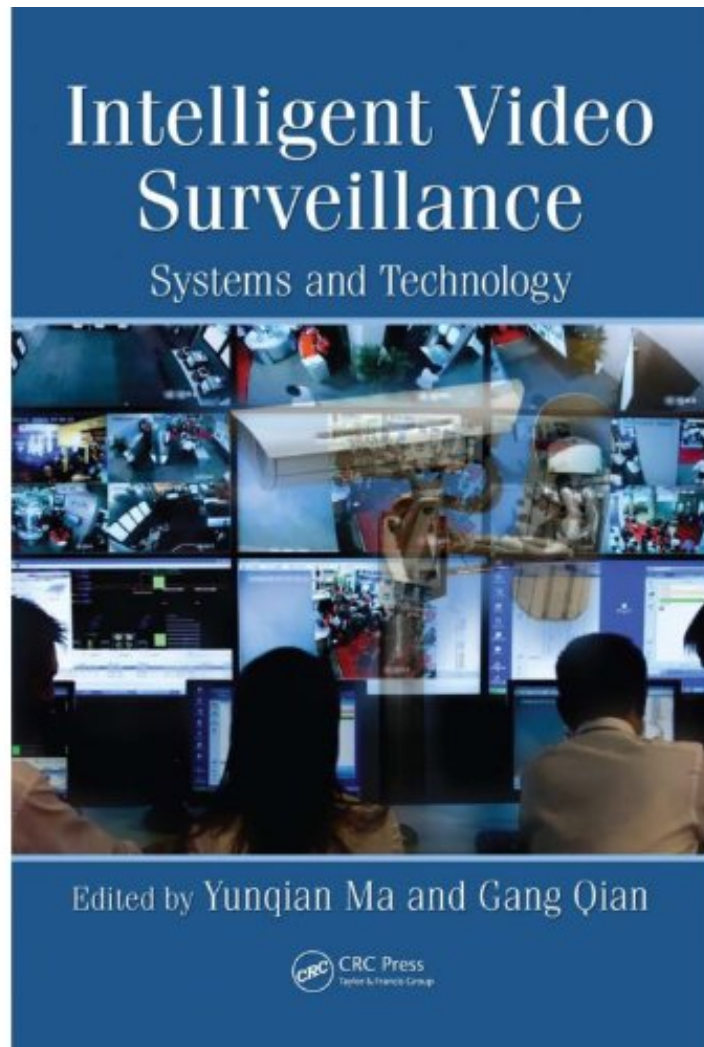


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# Intelligent Video Surveillance: Systems and Technology

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**From CRC Press : Intelligent Video Surveillance: Systems and Technology** before purchasing it in order to gauge whether or not it would be worth my time, and all praised Intelligent Video Surveillance: Systems and Technology:

0 of 0 people found the following review helpful. good descriptionsBy W BoudvilleThis early 2010 release is a good summary of the state of the art in automated video analysis. It covers first the case where one or more cameras are in fixed locations. In turn, these can have fields of view that are nonoverlapping or overlapping. The latter is shown to give more chances of getting around occlusion [blocking] in a single camera's image stream. While the former has the advantage of letting the camera ensemble cover a larger area.If a subject [target] moves, then issues of camera handoff can arise, as the subject moves out of the FOV of one camera and then later, presumably, into the FOV of another.Airborne cameras are described, so that the cameras are moving, typically over an urban landscape. Surprisingly perhaps, the most obvious application is never mentioned. Where there are several airborne cameras in a

rural region, looking for enemies, as in the US forces being used in Afghanistan or Pakistan. The book's applications all seem to be civilian.

From the streets of London to subway stations in New York City, hundreds of thousands of surveillance cameras ubiquitously collect hundreds of thousands of videos, often running 24/7. How can such vast volumes of video data be stored, analyzed, indexed, and searched? How can advanced video analysis systems autonomously recognize people and detect targeted activities real-time? Collating and presenting the latest information Intelligent Video Surveillance: Systems and Technology explores these issues, from fundamentals principle to algorithmic design and system implementation. An Integrated discussion of key research and applications Written and edited by a collection of industry experts, the book presents state-of-the-art technologies and systems in intelligent video surveillance. The book integrates key research, design, and implementation themes of intelligent video surveillance systems and technology into one comprehensive reference. The chapters cover the computational principles behind the technologies and systems and include system implementation issues as well as examples of successful applications of these technologies. Builds a foundation for future developments Changing appearance caused by changing viewpoints, illumination, expression, and movement, self/cross body occlusion, modeling of cluttered background capable of efficient background subtraction for object detection, and spatial and temporal alignment of multiple cameras are just a few of the challenges that remain in further developing and refining intelligent video surveillance technology and systems. Fully illustrated with line art, tables, and photographs demonstrating the collected video and results obtained using the related algorithms, including a color plate section, the book provides a high-level blueprint for advances and insights into future directions of the field.

About the Author Yunqian Ma is a Principal Scientist for Honeywell Labs. Gang Qian is a Professor of Electrical Engineering at Arizona State University.