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Video Surveillance Techniques and Technologies

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Part of the Advances in Multimedia and Interactive Technologies Book Series

Vesna Zeljkovic
(New York Institute of Technology, Nanjing Campus, China)

Security video surveillance systems, such as homeland security and national defense, rely on specific mathematical algorithms in order to run effectively. It is essential for these parameters to be understood in order to design and create a successful system.

Video Surveillance Techniques and Technologies presents empirical research and acquired experience on the original solutions and mathematical algorithms for motion detection and object identification problems. Emphasizing a wide variety of applications of security systems, this book is an essential tool for graduate students and professionals in the field of signal and image processing applied in static/moving object detection, tracking, and identification.

Topics Covered:

- Video Surveillance
- Automated Video Surveillance Systems
- Automatic Pattern Classification
- Integrated Multimedia
- Moving Object Detection
- Novel Algorithms
- Technological Components

Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners. Ideal for classroom use.

Dr Vesna Zeljkovic is a researcher in the field of signal and image processing with more than fifteen years of experience, developing mathematical models and novel algorithms for the analysis of images that have applications in video surveillance, analysis of complex optical spectra, public health, homeland security, industry and national defense. This work is reflected in more than 60 published scientific papers, one book chapter, as well as one published book in these fields. She taught engineering courses at undergraduate and graduate level in five countries on three different continents.

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