



Machine Vision Beyond Visible Spectrum

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Condition: New. Publisher/Verlag: Springer, Berlin | The material of this book encompasses many disciplines, including visible, infrared, far infrared, millimeter wave, microwave, radar, synthetic aperture radar, and electro-optical sensors as well as image processing, computer vision and pattern recognition. | The material of this book encompasses many disciplines, including visible, infrared, far infrared, millimeter wave, microwave, radar, synthetic aperture radar, and electro-optical sensors as well as the very dynamic topics of image processing, computer vision and pattern recognition. This book is composed of six parts: Advanced background modeling for surveillance Advances in Tracking in Infrared imagery Methods for Pose estimation in Ultrasound and LWIR imagery Recognition in multi-spectral and synthetic aperture radar Fusion of disparate sensors Smart Sensors | 1. Target Recognition in Infrared: Local Feature Based Person Detection and Tracking Beyond the Visible Spectrum.- Fuzzy mixture of Gaussians for the detection of moving objects in and beyond visible spectrum.- Dynamic Appearance Learning by Adaptive Kalman Filters for Robust Infrared Tracking.- Pedestrian Association and Localization in Monocular FIR Video Sequence.- Vehicle Matching and Recognition under Large Variations of Pose and Illumination.- 2. Multi-Sensor Fusion and Smart Sensors: Fusion of a Camera and a Laser Range Sensor for Vehicle Recognition.- Geometric Sequence (GS) Imaging with Bayesian Smoothing for Optical and...



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