1. Record Nr.   UNINA9910347046003321

   Autore   Teutsch Michael

   Titolo   Moving Object Detection and Segmentation for Remote Aerial Video Surveillance

   Pubbl/distr/stampa KIT Scientific Publishing, 2014

   ISBN   1000044922

   Descrizione fisica 1 electronic resource (XI, 215 p. p.)

   Collana   Karlsruher Schriften zur Anthropomatik / Lehrstuhl für Interaktive Echtzeitsysteme, Karlsruher Institut für Technologie ; Fraunhofer-Inst. für Optronik, Systemtechnik und Bildauswertung IOSB Karlsruhe

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Sommario/riassunto Unmanned Aerial Vehicles (UAVs) equipped with video cameras are a flexible support to ensure civil and military safety and security. In this thesis, a video processing chain is presented for moving object detection in aerial video surveillance. A Track-Before-Detect (TBD) algorithm is applied to detect motion that is independent of the camera motion. Novel robust and fast object detection and segmentation approaches improve the baseline TBD and outperform current state-of-the-art methods.