1. Record Nr. UNINA9910548274803321 Autore Wilko Sommer Lars Titolo Deep Learning based Vehicle Detection in Aerial Imagery Pubbl/distr/stampa Karlsruhe, : KIT Scientific Publishing, 2022 **ISBN** 1000135415 Descrizione fisica 1 electronic resource (276 p.) Collana Karlsruher Schriften zur Anthropomatik Soggetti Maths for computer scientists Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia This book proposes a novel deep learning based detection method, Sommario/riassunto focusing on vehicle detection in aerial imagery recorded in top view. The base detection framework is extended by two novel components to improve the detection accuracy by enhancing the contextual and semantical content of the employed feature representation. To reduce the inference time, a lightweight CNN architecture is proposed as base architecture and a novel module that restricts the search area is

introduced.