

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 online resource (276 p.)
Collana	Karlsruher Schriften zur Anthropomatik
Soggetti	Maths for computer scientists
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This book proposes a novel deep learning based detection method, 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.</p>