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| Autore                  | Kosmatin Fras Mojca                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Titolo                  | Geometrini popravki optinih satelitskih posnetkov                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| Descrizione fisica      | 1 electronic resource (146 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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| Soggetti                | Geographical information systems (GIS) & remote sensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Lingua di pubblicazione | Sloveno                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Formato                 | Materiale a stampa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Livello bibliografico   | Monografia                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sommario/riassunto      | <p>The monograph presents a fully automated procedure for geometric correction of optical satellite images, without any manual intervention during the processing. The resulting orthorectified image is in the national coordinate system and constitutes a suitable source for spatial analyses. In the monograph the original procedure connects several different methods into a single, robust system for automatic generation of orthoimages is documented in detail. The work describes the whole automatic orthorectification process, which comprises four basic modules: a module for extracting and preparing the metadata, a module for automatic extraction of ground control points, a module for calculation of parameters of the geometric model, and a module for orthorectification. The experiments and results with RapidEye and WorldView-2 images are also presented. The experiments evaluate the procedure for automatic extraction of points, the geometric model, the elimination of gross errors, and the positional accuracy of the orthoimages. The analysis of the results indicate that the automated procedure produces orthoimages with a positional accuracy of about two pixels or better, even if several gross errors are present among the automatically extracted ground control points.</p> <p>V knjigi je opisan popolnoma samodejen postopek geometrinih popravkov optinih satelitskih posnetkov, ki deluje brez posredovanja operaterja med obdelavo. Dobljeni ortorektificiran posnetek je v državnem koordinatnem sistemu in predstavlja primerno podlago za</p> |

prostorske analize. V knjigi je detajlno dokumentiran izviren postopek, ki povezuje ve razlinih metod v enoten in robusten sistem za samodejno izdelavo satelitskega ortofota. Opisan je celoten postopek samodejne ortorektifikacije, ki ga sestavljajo štirje osnovni moduli: modul za branje in pripravo metapodatkov, modul za samodejno doloanje oslonilnih tok, modul za izraun parametrov geometrinega modela in modul za izvedbo ortorektifikacije. Poleg modulov so predstavljeni tudi poskusi s posnetki RapidEye in WorldView-2. Opravljeni poskusi so omogoili ovrednotenje delovanja samodejnega postopka doloanja tok, geometrinega modela, izloanja grobih napak in oceno položajne tonosti ortoposnetkov. Analiza rezultatov testov kaže, da lahko samodejni postopek izdelava ortoposnetke s položajno tonostjo okrog dveh pikslov ali manj, tudi e je med samodejno doloenimi oslonilnimi tokami prisotnih ve grobih napak.

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