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Autore	Balbi, Simona
Titolo	A parallel algorithm for building empirical confidence regions in factorial configurations / Simona Balbi, Marina Marino
Pubbl/distr/stampa	Napoli : Dipartimento di Matematica e Statistica. Università degli Studi di Napoli Federico II, 1994
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Altri autori (Persone)	Marino, Marina
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2. Record Nr.	UNINA9910781162503321
Autore	Vosselman G
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Pubbl/distr/stampa	Dunbeath, : Whittles Publishing, 2010
ISBN	1-62870-092-0 1-84995-013-X
Descrizione fisica	1 online resource (337 p.)
Altri autori (Persone)	MaasH.G
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Soggetti	Imaging systems in geology Laser recording Optical scanners Remote sensing Three-dimensional imaging in geology Geography Earth & Environmental Sciences Geography-General
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di contenuto	""Contents""; ""Preface""; ""The Authors""; ""List of Abbreviations""; ""Chapter 1 Laser Scanning Technology""; ""1.1 Basic measurement principles of laser scanners""; ""1.1.1 Time-of-flight measurement""; ""1.1.2 Phase measurement techniques""; ""1.1.3 Triangulation-based measurements""; ""1.2 Components of laser scanners""; ""1.2.1 Light sources""; ""1.2.2 Laser beam propagation""; ""1.2.3 Photodetection""; ""1.2.4 Propagation medium and scene effects""; ""1.2.5 Scanning/projection mechanisms""; ""1.3 Basics of airborne laser scanning""; ""1.3.1 Principle of airborne laser scanning""; ""1.3.2 Integration of on-board systems""1.3.3 Global Positioning System/Inertial Measurements Unit combination""; ""1.3.4 Laser scanner properties""; ""1.3.5 Pulse repetition frequency and point density""; ""1.3.6 Multiple echoes and full-waveform digitisation""; ""1.3.7 Airborne laser scanner error budget""; ""1.4 Operational aspects of airborne laser scanning""; ""1.4.1 Flight planning""; ""1.4.2 Survey

flight""; ""1.4.3 Data processing""; ""1.4.4 Airborne laser scanning and cameras""; ""1.4.5 Advantages and limitations of airborne laser scanning""; ""1.5 Airborne lidar bathymetry""
""1.6 Terrestrial laser scanners""""Acknowledgements""; ""References"";
""Chapter 2 Visualisation and Structuring""; ""2.1 Visualisation""; ""2.1.1 Conversion of point clouds to images""; ""2.1.2 Point-based rendering""; ""2.2 Data structures""; ""2.2.1 Delaunay triangulation""; ""2.2.2 Octrees""; ""2.2.3 k-D tree""; ""2.3 Point cloud segmentation""; ""2.3.1 3D Hough transform""; ""2.3.2 The random sample consensus algorithm""; ""2.3.3 Surface growing""; ""2.3.4 Scan line segmentation""; ""2.4 Data compression""; ""References""; ""Chapter 3 Registration and Calibration""
""3.1 Geometric models""""3.1.1 Rotations""; ""3.1.2 The geometry of terrestrial laser scanning""; ""3.1.3 The geometry of airborne laser scanning""; ""3.2 Systematic error sources and models""; ""3.2.1 Systematic errors and models of terrestrial laser scanning""; ""3.2.2 Errors and models for airborne laser scanning""; ""3.3 Registration""; ""3.3.1 Registration of terrestrial laser scanning data""; ""3.3.2 Registration of airborne laser scanning data""; ""3.4 System calibration""; ""3.4.1 Calibration of terrestrial laser scanners""; ""3.4.2 Calibration of airborne laser scanners""
""Summary""""References""; ""Chapter 4 Extraction of Digital Terrain Models""; ""4.1 Filtering of point clouds""; ""4.1.1 Morphological filtering""; ""4.1.2 Progressive densification""; ""4.1.3 Surface-based filtering""; ""4.1.4 Segment-based filtering""; ""4.1.5 Filter comparison""; ""4.1.6 Potential of full-waveform information for advanced filtering""; ""4.2 Structure line determination""; ""4.3 Digital terrain model generation""; ""4.3.1 Digital terrain model determination from terrestrial laser scanning data""; ""4.3.2 Digital terrain model quality""
""4.3.3 Digital terrain model data reduction""
