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Autore	Ahmed Mahmuda
Titolo	Map Construction Algorithms / / by Mahmuda Ahmed, Sophia Karagiorgou, Dieter Pfoser, Carola Wenk
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ISBN	3-319-25166-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (128 p.)
Disciplina	004
Soggetti	Data mining Geometry Geographic information systems Regional planning City planning Data Mining and Knowledge Discovery Geographical Information Systems/Cartography Landscape/Regional and Urban Planning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Map Construction Algorithms -- Trace Bundle Map Construction Algorithm -- Fréchet Distance-Based Map Construction Algorithm -- Density-Based Map Construction Pipeline -- Datasets -- Quality Measures for Map Comparison -- Evaluation -- New Directions -- Resources.
Sommario/riassunto	The book provides an overview of the state-of-the-art of map construction algorithms, which use tracking data in the form of trajectories to generate vector maps. The most common trajectory type is GPS-based trajectories. It introduces three emerging algorithmic categories, outlines their general algorithmic ideas, and discusses three representative algorithms in greater detail. To quantify map construction algorithms, the authors include specific datasets and evaluation measures. The datasets, source code of map construction algorithms and evaluation measures are publicly available on http:

//www.mapconstruction.org. The web site serves as a repository for map construction data and algorithms and researchers can contribute by uploading their own code and benchmark data. Map Construction Algorithms is an excellent resource for professionals working in computational geometry, spatial databases, and GIS. Advanced-level students studying computer science, geography and mathematics will also find this book a useful tool. .