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    | Record Nr. | UNINA9910299257203321 |
    | Autore | Ahmed Mahmuda |
    | Titolo | Map Construction Algorithms / / by Mahmuda Ahmed, Sophia Karagiorgou, Dieter Pfoser, Carola Wenk |
    | Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015 |
    | ISBN | 3-319-25166-X |
    | Edizione | [1st ed. 2015.] |
    | Descrizione fisica | 1 online resource (128 p.) |
    | Disciplina | 004 |
    | Soggetti | Data mining
 Geometry
 Geographical information systems
 Regional planning
 Urban 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. .