1. Record Nr. UNINA9910337520303321

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Titolo	Fundamentals of Clinical Data Science [[electronic resource] /] / edited by Pieter Kubben, Michel Dumontier, Andre Dekker
Pubbl/distr/stampa	Cham, : Springer Nature, 2019 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-99713-0
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (VIII, 219 p. 45 illus., 35 illus. in color.)
Disciplina	502.85
Soggetti	Health informatics Bioinformatics Data Science Medical Informatics Precision Medicine - methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Data sources -- Data at scale -- Standards in healthcare data -- Using FAIR data / data stewardship -- Privacy / deidentification -- Preparing your data -- Creating a predictive model -- Diving deeper into models -- Validation and Evaluation of reported models -- Clinical decision support systems -- Mobile app development -- Operational excellence -- Value Based Healthcare (Regulatory concerns).
Sommario/riassunto	This open access book comprehensively covers the fundamentals of clinical data science, focusing on data collection, modelling and clinical applications. Topics covered in the first section on data collection include: data sources, data at scale (big data), data stewardship (FAIR data) and related privacy concerns. Aspects of predictive modelling using techniques such as classification, regression or clustering, and prediction model validation will be covered in the second section. The third section covers aspects of (mobile) clinical decision support systems, operational excellence and value-based healthcare. Fundamentals of Clinical Data Science is an essential resource for healthcare professionals and IT consultants intending to develop and

refine their skills in personalized medicine, using solutions based on large datasets from electronic health records or telemonitoring programmes. The book’s promise is “no math, no code”and will explain the topics in a style that is optimized for a healthcare audience.