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Titolo	Computational life sciences : data engineering and data mining for life sciences / / edited by Jens Dorpinghaus [and three others]
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Descrizione fisica	1 online resource (593 pages)
Collana	Studies in Big Data, , 2197-6511 ; ; 112
Disciplina	005.7
Soggetti	Big data Ciències de la vida Processament de dades Gestió de bases de dades Mineria de dades Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Includes index.
Nota di contenuto	Interesting Programming Languages used in Life Sciences -- Introduction to Java -- Basic Data Processing -- Algorithm Design -- Data and Knowledge Management -- Databases and Knowledge Graphs -- Knowledge Discovery and AI approaches for the Life Sciences -- Longitudinal Data.
Sommario/riassunto	This book broadly covers the given spectrum of disciplines in Computational Life Sciences, transforming it into a strong helping hand for teachers, students, practitioners and researchers. In Life Sciences, problem-solving and data analysis often depend on biological expertise combined with technical skills in order to generate, manage and efficiently analyse big data. These technical skills can easily be enhanced by good theoretical foundations, developed from well-chosen practical examples and inspiring new strategies. This is the innovative approach of Computational Life Sciences-Data Engineering and Data Mining for Life Sciences: We present basic concepts, advanced topics and emerging technologies, introduce algorithm design and programming principles, address data mining and knowledge discovery

as well as applications arising from real projects. Chapters are largely independent and often flanked by illustrative examples and practical advise. .