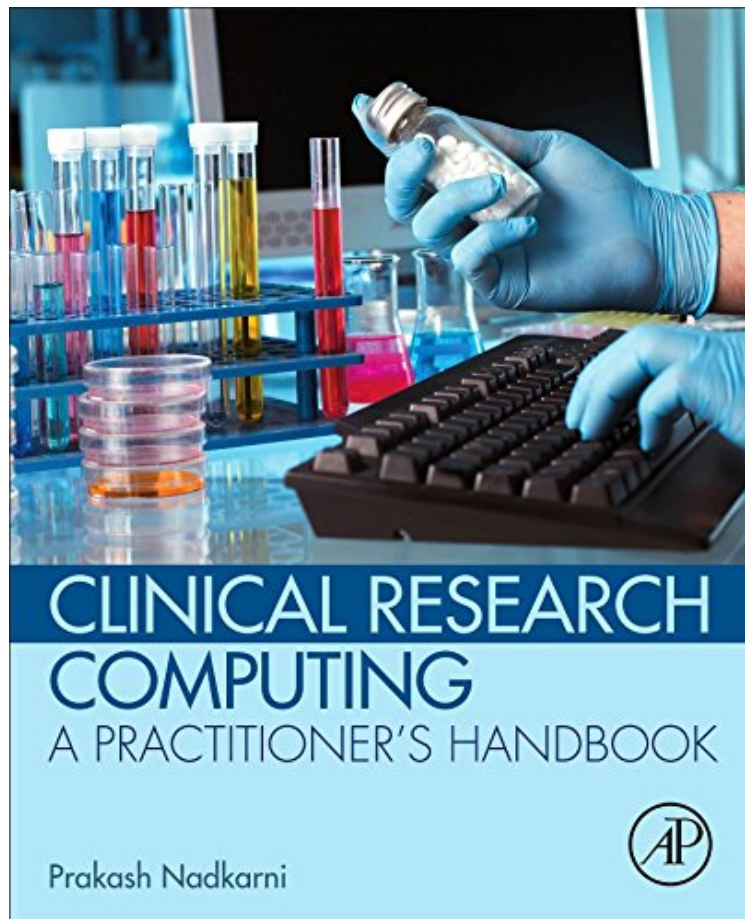


Clinical Research Computing: A Practitioner's Handbook

Prakash Nadkarni

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#1840714 in Books Nadkarni Prakash 2016-05-12 2016-04-28 Original language: English PDF # 1 9.25 x .55 x 7.50l, .99 #File Name: 0128031301240 pages Clinical Research Computing A Practitioner s Handbook | File size: 74.Mb

Prakash Nadkarni : Clinical Research Computing: A Practitioner's Handbook before purchasing it in order to gage whether or not it would be worth my time, and all praised Clinical Research Computing: A Practitioner's Handbook:

0 of 0 people found the following review helpful. A "must have" book for any serious informaticist. By T. Papke There have been numerous attempts to distill the essence of Bioinformatics and Health Informatics. Many, such as Shortliffe, have done little more than give a sweeping historical treatment of the utilization of computers in the healthcare setting and the associated metadata structures that serve to allow these systems to document the many intervention, condition, biometric markers, and diagnostic codes prevalent in modern hospitals using electronic health record systems today. Other books tend to focus on the analytical methodologies specific to a sub-domain of healthcare such as the tools and techniques used in gene sequencing, or the formats of MRI, PET or CAT scan imagery and the associated computational language and tools utilized by radiologists. Here we find a book that will help provide a reader with a

Swiss Army knife of information from which they can begin to approach the process, management, and instrumentation of computational resources inherent in modern-day clinical research. There is something for everyone here, from the first semester health informatics student looking to better understand computational research in general, to the seasoned researcher looking to better manage the computational resources at their disposal. Dr. Nadkarni's voice isn't that of someone who is summarizing something he's witnessed others doing, but as someone who has rolled up their sleeves and molded each bit and byte themselves and wants to let us in on some of the best kept secrets of the pros.

Clinical Research Computing: A Practitioners Handbook deals with the nuts-and-bolts of providing informatics and computing support for clinical research. The subjects that the practitioner must be aware of are not only technological and scientific, but also organizational and managerial. Therefore, the author offers case studies based on real life experiences in order to prepare the readers for the challenges they may face during their experiences either supporting clinical research or supporting electronic record systems. Clinical research computing is the application of computational methods to the broad field of clinical research. With the advent of modern digital computing, and the powerful data collection, storage, and analysis that is possible with it, it becomes more relevant to understand the technical details in order to fully seize its opportunities. Offers case studies, based on real-life examples where possible, to engage the readers with more complex examples Provides studies backed by technical details, e.g., schema diagrams, code snippets or algorithms illustrating particular techniques, to give the readers confidence to employ the techniques described in their own settings Offers didactic content organization and an increasing complexity through the chapters

About the Author Dr. Nadkarni has been working in the field of biomedical informatics since 1989, with over 100 peer-reviewed publications in the field. He is the lead developer of TrialDB, an open-source clinical study data management system, which is used at multiple locations nationally and internationally. He is an Associate Editor of the Journal of the American Medical Informatics Association (JAMIA) since 2005, and was elected Fellow of the American College of Medical Informatics (ACMI) in 2002.