

Health informatics is the field of science and engineering that aims at developing methods and technologies for the acquisition, processing, and study of patient data,[1] which can come from different sources and modalities, such as electronic health records, diagnostic test results, medical scans. The health domain provides an extremely wide variety of problems that can be tackled using computational techniques. Health informatics is a spectrum of multidisciplinary fields that includes study of the design, development and application of computational innovations to improve health care. The disciplines involved combines medicine fields with computing fields, in particular computer engineering, software engineering, information engineering, bioinformatics, bio-inspired computing, theoretical computer science, information systems, data science, information technology, autonomic computing, and behavior informatics. In academic institutions, medical informatics research focus on applications of artificial intelligence in healthcare and designing medical devices based on embedded systems. In some countries term informatics is also used in the context of applying library science to data management in hospitals.

In the present book, fifteen typical literatures about Health informatics published on international authoritative journals were selected to introduce the worldwide newest progress, which contains reviews or original researches on Health informatics. We hope this book can demonstrate advances in Health informatics as well as give references to the researchers, students and other related people.¹

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¹ https://en.wikipedia.org/wiki/Health_informatics