Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health

David J. Lubliner

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Medical informatics lies at the intersection of computer science and medicine, and understanding critical aspects of both fields provides for more proficient practitioners. **Biomedical Informatics: An Introduction to Information Systems and Software in Medicine and Health** supplies a cohesive narrative of the multidisciplinary concepts linking the field.

This complete medical informatics textbook begins by reviewing the IT aspects of informatics, including systems architecture, electronic health records, interoperability, privacy and security, cloud computing, mobile healthcare, imaging, data capture, and design issues. Next, the text provides case studies that demonstrate the roll out of electronic health records (EHRs) in hospitals.

The third section incorporates four anatomy and physiology lectures that focus on the physiological basis behind data captured in EHRs. Examples include detailed descriptions of the heart and electrical systems, lungs and alveoli, and oxygen exchange.

The book includes a primer on the theoretical concepts that underpin the science behind medical informatics, including an Anatomy & Physiology Essentials guide. It also contains a tutorial on application development to help students understand the tools for improving user interfaces for EHRs on mobile platforms.

The author uses a student-friendly organizational structure that supplies students with a clear demarcation between essential and optional material. The text supplies clear delineation between Level I, the basic concepts every biomedical informatics professional needs to master; Level II, applied concepts and examples; and Level III, advanced topics. This format allows undergraduate and graduate instructors and professionals in the field to focus quickly on the essential topics, and if interested, delve into Level III advanced topics.

The book includes links to documents and standards sources so students can explore each idea described in more detail. Instructor's manual, solutions manual, videos, figure slides, and lecture slides are available upon qualified course adoption.

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