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Volume I

Section I. Fundamental Concepts and Theories

This section serves as the groundwork for this comprehensive reference book by addressing central theories essential to the understanding of clinical technologies. Chapters found within these pages provide a tremendous framework in which to position clinical technologies within the field of information science and technology. Insight regarding the critical integration of global measures into clinical technologies is addressed, while crucial stumbling blocks of this field are explored. In the chapters comprising this introductory section, the reader can learn and choose from a compendium of expert research on the elemental theories underscoring the clinical technologies discipline.

Section II. Development and Design Methodologies

This section provides exhaustive coverage of conceptual architecture frameworks to endow with the reader a broad understanding of the promising technological developments within the field of clinical technologies. Research fundamentals imperative to the understanding of developmental processes within clinical technologies are offered. From broad surveys to specific discussions and case studies on electronic tools, the research found within this section spans the discipline while offering detailed, specific discussions. From basic designs to abstract development, these chapters serve to expand the reaches of development and design technologies within the clinical technologies community.

Section IV. Utilization and Application

This section discusses a variety of applications and opportunities available that can be considered by practitioners in developing viable and effective clinical technologies programs and processes. This section includes over 20 chapters reviewing certain utilizations and applications of clinical technologies, such as artificial intelligence and social network analysis in healthcare. Further chapters show case studies from around the world, and the applications and utilities of clinical technologies. The wide ranging nature of subject matter in this section manages to be both intriguing and highly educational.

Section V. Organizational and Social Implications

This section includes a spacious range of inquiry and research pertaining to the behavioral, emotional, social and organizational impact of clinical technologies around the world. From demystifying human resources to privacy in mammography, this section compels the humanities, education, and IT scholar all. Section 5 also focuses on hesitance in some hospital members' integration with clinical technologies, and methods therein. With more than 10 chapters, the discussions on hand in this section detail current and suggest future research into the integration of global clinical technologies as well as implementation of ethical considerations for all organizations. Overall, these chapters present a detailed investigation of the complex relationship between individuals, organizations and clinical technologies.

Volume III

Section VI. Managerial Impact

This section presents contemporary coverage of the social implications of clinical technologies, more specifically related to the corporate and managerial utilization of information sharing technologies and applications, and how these technologies can be facilitated within organizations. Section 6 is especially helpful as an addition to the organizational and behavioral studies of section 5, with diverse and novel developments in the managerial and human resources areas of clinical technologies. Typically, though the fields of industry and education are not always considered co-dependent, section 6 provides looks into how clinical technologies and the business workplace help each other. The interrelationship of such issues as operationalizing, supervision, and diagnosis management are discussed. In all, the chapters in this section offer specific perspectives on how managerial perspectives and developments in clinical technologies inform each other to create more meaningful user experiences.

Section VII. Critical Issues

Section 7 details some of the most crucial developments in the critical issues surrounding clinical technologies. Importantly, this refers to critical thinking or critical theory surrounding the topic, rather than vital affairs or new trends that may be found in section 8. Instead, the section discusses some of the latest developments in ethics, law, and social implications in clinical technology development. Within the chapters, the reader is presented with an in-depth analysis of the most current and relevant issues within this growing field of study.