Biomedical Informatics: Discovering Knowledge in Big Data

By Andreas Holzinger

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This book provides a broad overview of the topic Bioinformatics with focus on data, information and knowledge. From data acquisition and storage to visualization, ranging through privacy, regulatory and other practical and theoretical topics, the author touches several fundamental aspects of the innovative interface between Medical and Technology domains that is Biomedical Informatics. Each chapter starts by providing a useful inventory of definitions and commonly used acronyms for each topic and throughout the text, the reader finds several real-world examples, methodologies and ideas that complement the technical and theoretical background. This new edition includes new sections at the end of each chapter, called "future outlook and research avenues," providing pointers to future challenges. At the beginning of each chapter a new section called "key problems", has been added, where the author discusses possible traps and unsolvable or major problems.

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Dr. Holzinger is Head of Research Unit HCI4MED, Institute of Medical Informatics, Statistics and Documentation, Medical University Graz and is an Assoc. Prof. for Information Processing, Faculty of Informatics, Graz University of Technology; Lecturer for Biomedical Informatics, Faculty of Electrical Engineering, Graz University of Technology.

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