



Fundamental Concepts of Bioinformatics

By Dan E. Krane, Michael L. Raymer

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Fundamental Concepts of Bioinformatics is the first book co-authored by a biologist and computer scientist that is specifically designed to make bioinformatics accessible and provide readers for more advanced work. Readers learn what programs are available for analyzing data, how to understand the basic algorithms that underlie these programs, what bioinformatic research is like, and other basic concepts. Information flows easily from one topic to the next, with enough detail to support the major concepts without overwhelming readers. Problems at the end of each chapter use real data to help readers apply what they have learned so they know how to critically evaluate results from both a statistical and biological point of view.

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Fundamental Concepts of Bioinformatics By Dan E. Krane, Michael L. Raymer Bibliography

- Sales Rank: #1183050 in Books
- Published on: 2002-09-22
- Original language: English
- Number of items: 1
- Dimensions: 9.20" h x .70" w x 7.20" l, 1.14 pounds
- Binding: Paperback
- 320 pages

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Editorial Review

From the Back Cover

"Fundamental Concepts of Bioinformatics" is the first book co-authored by a biologist and computer scientist that is specifically designed to make bioinformatics accessible and provide readers for more advanced work. Readers learn what programs are available for analyzing data, how to understand the basic algorithms that underlie these programs, what bioinformatic research is like, and other basic concepts. Information flows easily from one topic to the next, with enough detail to support the major concepts without overwhelming readers. Problems at the end of each chapter use real data to help readers apply what they have learned so they know how to critically evaluate results from both a statistical and biological point of view.

About the Author

For Elaine N. Marieb, taking the student's perspective into account has always been an integral part of her teaching style. Dr. Marieb began her teaching career at Springfield College, where she taught anatomy and physiology to physical education majors. She then joined the faculty of the Biological Science Division of Holyoke Community College in 1969 after receiving her Ph.D. in zoology from the University of Massachusetts at Amherst. While teaching at Holyoke Community College, where many of her students were pursuing nursing degrees, she developed a desire to better understand the relationship between the scientific study of the human body and the clinical aspects of the nursing practice. To that end, while continuing to teach full time, Dr. Marieb pursued her nursing education, which culminated in a Master of Science degree with a clinical specialization in gerontology from the University of Massachusetts. It is this experience, along with stories from the field-including those of former students, now in health careers-that has informed the development of the unique perspective and accessibility for which her texts and laboratory manuals are known. In her ongoing commitment to students and her realization of the challenges they face, Dr. Marieb has given generously to provide opportunities for students to further their education. She contributes to the New Directions, New Careers Program at Holyoke Community College by providing several full-tuition scholarships each year for women returning to college after a hiatus or who are attending college for the first time and would otherwise be unable to continue with their studies without financial support. She funds the E. N. Marieb Science Research Awards at Mount Holyoke College, which promotes research by undergraduate science majors, and generously contributed to the University of Massachusetts at Amherst where she provided funding for reconstruction and instrumentation of a cutting-edge cytology research laboratory that bears her name. In 1994, Dr. Marieb received the Benefactor Award from the National Council for Resource Development, American Association of Community Colleges, which recognizes her ongoing sponsorship of student scholarships, faculty teaching awards, and other academic contributions to Holyoke Community College. In May 2000, the science building at Holyoke Community College was named in her honor. Additionally, while actively engaged as an author, Dr. Marieb serves as a consultant for the Benjamin Cummings "InterActive Physiology" CD-ROM series, and is an active member of the Human Anatomy and Physiology Society (HAPS). "Anatomy & Physiology," Second Edition is the latest expression of her commitment to student needs in their pursuit of the study of A&P.

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