

Developing Bioinformatics Infrastructures

Bioinformatics software, information-rich life sciences databases, and high throughput laboratory technologies provide life and biosciences professionals with access to data and analytical tools that drive discovery at a rate previously unprecedented in science. This book shows bioinformatics professionals how to maximize the power of these systems for interoperability and integration. It provides the methodologies and tools required to develop infrastructures that support collaborative research in both academic and commercial research laboratories. The reader is walked through the development of a web services-based infrastructure that will provide secure information management and discovery systems to facilitate information exchange and analysis.

Bioinformatics software, information rich life sciences databases, and high throughput laboratory technologies have provided today's life scientist with access to data, and analytical tools to drive discovery at a rate unprecedented in science. Although enormously valuable, these remain stand-alone tools that form a heterogeneous tapestry whose lack of interoperability and integration often proves a hindrance to collaborative research. "Developing Bioinformatics Infrastructures" provides bioinformatics scientists and engineers with the methodologies and tools required to develop an infrastructure to support collaborative research in both academic and commercial research laboratories. The reader is walked through the development of a web services-based infrastructure important to providing secure information management and discovery systems that facilitate information exchange and analysis. This title provides extensive examples and step-by-step instruction. It contains language neutral explanation of implementation software and databases to support life science research in a variety of different industries. It includes source code and configuration file examples to guide the reader through the implementation of systems.



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