

IMMUNOLOGICAL COMPUTATION: THEORY AND APPLICATIONS

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Key Features

Reviews fundamental immunology concepts
Presents computational models based on the negative selection process
Describes practical real-world applications of models
Details continuous and discrete immune network models
Addresses clonal selection, hybrid models, and computational models based on danger theory

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About the Book

Over the last decade, the field of immunological computation has progressed slowly and steadily as a branch of computational intelligence. *Immunological Computation: Theory and Applications* presents up-to-date immunity-based computational techniques. After a brief review of fundamental immunology concepts, it examines computational models based on the negative selection process that occurs in the thymus. The text then explores immune networks, including continuous and discrete immune network models, clonal selection, hybrid models, and computational models based on danger theory. It also discusses real-world applications for the models covered in each chapter.

Selected Contents

Immunology Basics. Modeling the Biological Immune System. Negative Selection. Artificial Immune Networks. Clonal Selection Algorithm and Hybrid Models. Applications.

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