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This book constitutes the refereed proceedings of the 5th International Conference on Artificial Immune Systems, ICARIS 2006, held in Oeiras, Portugal in September 2006. The 34 revised full papers presented were carefully reviewed and selected from 60 submissions. The papers are organized in topical sections on computer simulation of classical immunology, computer simulation of idiotypic network, immunoinformatics conceptual papers, pattern recognition type of application, optimization type of application, control and time-series type of application, danger theory inspired application, and text mining application.

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Computer Simulation of Classical Immunology Did Germinal Centers Evolve Under Differential Effects of Diversity vs Affinity? Modelling the Control of an Immune Response Through Cytokine Signalling Modeling Influenza Viral Dynamics in Tissue Cellular Frustration: A New Conceptual Framework for Understanding Cell-Mediated Immune Responses The Swarming Body: Simulating the Decentralized Defenses of ImmunityComputer Simulation of Idiotypic Network Analysis of a Growth Model for Idiotypic Networks Randomly Evolving Idiotypic Networks: Analysis of Building Principles The Idiotypic Network with Binary Patterns Matching Tolerance vs Intolerance: How Affinity Defines Topology in an Idiotypic NetworkImmunoInformatics Conceptual Papers On Permutation Masks in Hamming Negative Selection Gene Libraries: Coverage, Efficiency and Diversity Immune System Modeling: The OO Way A Computational Model of Degeneracy in a Lymph Node Structural Properties of Shape-SpacesPattern Recognition Type of Application Integrating Innate and Adaptive Immunity for Intrusion Detection A Comparative Study on Self-tolerant Strategies for Hardware Immune Systems On the Use of Hyperspheres in Artificial Immune Systems as Antibody Recognition Regions A Heuristic Detector Generation Algorithm for Negative Selection Algorithm with Hamming Distance Partial Matching Rule A Novel Approach to Resource Allocation Mechanism in Artificial Immune Recognition System: Fuzzy Resource Allocation Mechanis and Application to Diagnosis of Atherosclerosis Disease Recognition of Handwritten Indic Script Using Clonal Selection AlgorithmOptimization Type of ApplicationControl and Time-Series Type of ApplicationDanger Theory Inspired ApplicationText Mining ApplicationAuthor Index

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