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Artificial Adaptive Systems in Medicine

New Theories and Models for New Applications in the Real World

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About the eBook

This eBook covers emerging theories on artificial intelligence applications in a variety of medical problems. Both theoretical and applied aspects are presented in this book. Many illustrative mathematical explanations and worked-out examples are given. This book features contributions by nine noted experts from leading medical centers worldwide.

Contents

- The General Philosophy of Artificial Adaptive Systems
- A Brief Introduction to Artificial Neural Networks
- A Brief Introduction to Evolutionary Algorithms and the Genetic Doping Algorithm
- Auto-Contractive Maps, H Function and Maximally Regular Graph - Theory
- Auto Contractive Maps, H Function and Maximally Regular Graph - Application
- J-Net System: A New Paradigm for Artificial Neural Networks Applied to Diagnostic Imaging - Theory
- J-Net System: A New Paradigm for Artificial Neural Networks Applied to Diagnostic Imaging - Application

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