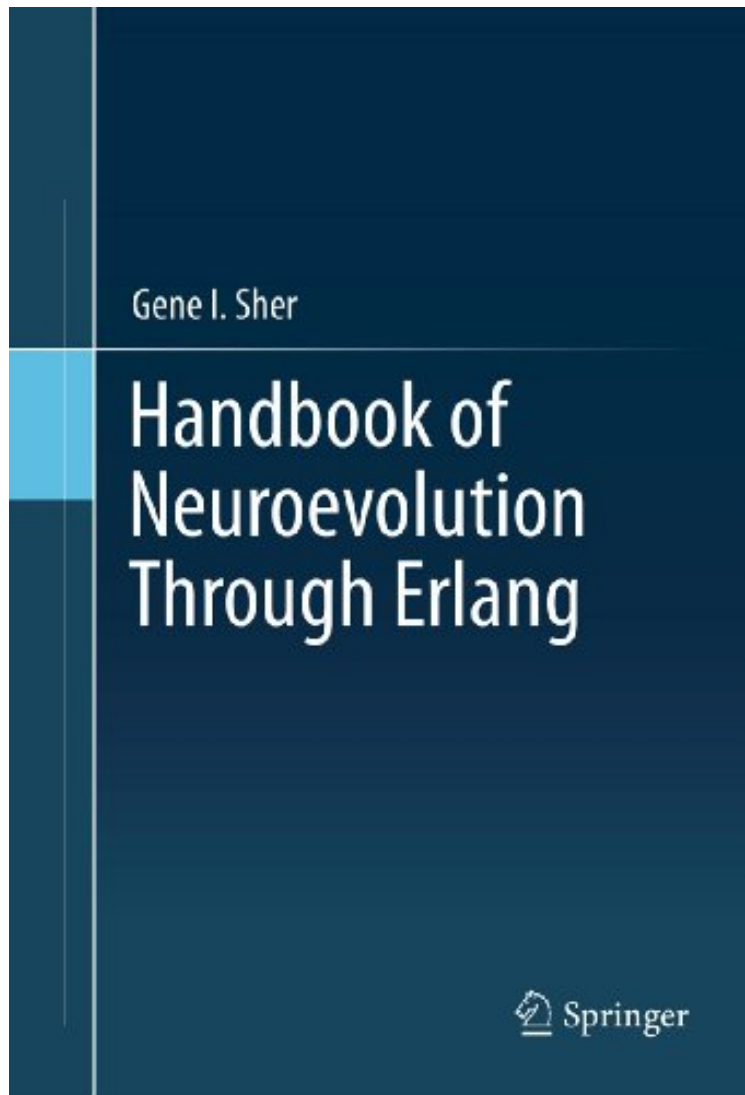


(Mobile ebook) Handbook of Neuroevolution Through Erlang

Handbook of Neuroevolution Through Erlang

Von Gene I. Sher

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Von Gene I. Sher : Handbook of Neuroevolution Through Erlang before purchasing it in order to gage whether or not it would be worth my time, and all praised Handbook of Neuroevolution Through Erlang:

KundenrezensionenHilfreichste Kundenrezensionen2 von 2 Kunden fanden die folgende Rezension hilfreich. Vorbildlich aufgebaut, verstndlich geschriebenVon Matthias HuerlemannSehr gut strukturiertes Buch. Der Inhalt wird stufenweise aufgebaut und sehr gut erklrt. Ich freue mich auf die Implementation... Mit Erlang sind solche Probleme elegant und bersichtlich umsetzbar.TWEANN (Topology and Weight Evolving Artifical Neural Network) ist eine mchtige Kombination von mehreren Konzepten der knstlichen Intelligenz (neuronale Netze, genetische Algorithmen und intelligente Agenten im Schwarm).1. Motivation und Einsatzmglichkeiten2. Einfhrung in neuronale Netze3.

Einführung in evolutionäre Programmierung4. Methoden der Neuro-Evolution5. Warum Erlang als ideale Programmiersprache?6. Ein Feed Forward neuronales Netzwerk7. Stochastic Hill-Climber als Lernalgorithmus8. Aufbau einer simplen neuroevolutionären Plattform9. Testing10. Eine Fallstudie11. Modularisierung der neuroevolutionären Plattform12. Tracking des Lernfortschritts der evolutionären Population13. Bewertung der Fitness14. Zwei weitere Benchmarks15. Neuro-Plastizität16. Genetische Algorithmen17. Genetische Weiterentwicklung18. Anwendung: Artificial Life19. Anwendung: Devisenhändler-Agenten20. AbschlussDer Preis ist nur relativ hoch. Das Buch bietet viel Lesegenuss.

KurzbeschreibungHandbook of Neuroevolution Through Erlang presents both the theory behind, and the methodology of, developing a neuroevolutionary-based computational intelligence system using Erlang. With a foreword written by Joe Armstrong, this handbook offers an extensive tutorial for creating a state of the art Topology and Weight Evolving Artificial Neural Network (TWEANN) platform. In a step-by-step format, the reader is guided from a single simulated neuron to a complete system. By following these steps, the reader will be able to use novel technology to build a TWEANN system, which can be applied to Artificial Life simulation, and Forex trading. Because of Erlang's architecture, it perfectly matches that of evolutionary and neurocomputational systems. As a programming language, it is a concurrent, message passing paradigm which allows the developers to make full use of the multi-core multi-cpu systems. Handbook of Neuroevolution Through Erlang explains how to leverage Erlang's features in the field of machine learning, and the systems real world applications, ranging from algorithmic financial trading to artificial life and robotics.

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