



Non-Linear Feedback Neural Networks [VLSI Implementations and Applications /

Ansari, Mohd. Samar.

aut.

<http://id.loc.gov/vocabulary/relators/aut>

Springer India,

2014

Engineering

Systems engineering

Electronics

Computational Intelligence

Circuits and Systems

Mathematical Models of Cognitive Processes and Neural

Networks

Electronics and Microelectronics, Instrumentation

Monografía

This book aims to present a viable alternative to the Hopfield Neural Network (HNN) model for analog computation. It is well known that the standard HNN suffers from problems of convergence to local minima, and requirement of a large number of neurons and synaptic weights. Therefore, improved solutions are needed. The non-linear synapse neural network (NoSyNN) is one such possibility and is discussed in detail in this book. This book also discusses the applications in computationally intensive tasks like graph coloring, ranking, and linear as well as quadratic programming. The material in the book is useful to students, researchers and academicians working in the area of analog computation

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzYzMjY2Mzk>

Título: Non-Linear Feedback Neural Networks [Recurso electrónico] VLSI Implementations and Applications by Mohd. Samar Ansari

Editorial: New Delhi Springer India Imprint: Springer 2014

Editorial: New Delhi Springer India 2014

Descripción física: XXII, 201 p. 79 il

Mención de serie: Studies in Computational Intelligence 508

Nota general: Bibliographic Level Mode of Issuance: Monograph

Bibliografía: Includes bibliographical references

Contenido: Introduction -- Background -- Voltage-mode Neural Network for the Solution of Linear Equations -- Mixed-mode Neural Circuit for Solving Linear Equations -- Non-Linear Feedback Neural Circuits for Linear and Quadratic Programming -- OTA-based Implementations of Mixed-mode Neural Circuits -- Appendix A: Mixed-mode Neural Network for Graph Colouring -- Appendix B: Mixed-mode Neural Network for Ranking

Lengua: English

ISBN: 9788132215639 9788132215646 9788132215622 9788132228967

Materia: Engineering Systems engineering Electronics Computational Intelligence Circuits and Systems Mathematical Models of Cognitive Processes and Neural Networks Electronics and Microelectronics, Instrumentation

Enlace a serie principal: Studies in Computational Intelligence (CKB)1000000000238186 (DLC) (OCoLC) 1860-9503

Enlace a formato físico adicional: 81-322-1562-1

Punto acceso adicional serie-Título: Studies in Computational Intelligence 508

Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es