

Training Feedforward Networks With The Marquardt Algorithm

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AIAA Journal
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Neural Networks for Control and Systems
Neural Computation
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Device-independent Color Imaging
Proceedings of the First International Forum on Applications of Neural Networks to Power Systems
An Artificial Neural Network Based Tool-box for Screening and Designing Improved Oil Recovery Methods
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several researchers characterized the activation functions under which multilayer feedforward networks can act as universal approximators we show that all the characterizations that were reported thus far in the literature are special cases of the following general result a standard multilayer feedforward network can approximate any continuous function to any degree of accuracy if and only if the network's activation functions are not polynomial we also emphasize the important role of the threshold asserting that without it the last theorem doesn't hold

this decade has seen an explosive growth in computational speed and memory and a rapid enrichment in our understanding of artificial neural networks these two factors provide systems engineers and statisticians with the ability to build models of physical economic and information based time series and signals this book provides a thorough and coherent introduction to the mathematical properties of feedforward neural networks and to the intensive methodology which has enabled their highly successful application to complex problems

bachelor thesis from the year 2009 in the subject computer science programming grade 1 university of applied sciences technikum vienna informations und kommunikationssysteme language english abstract from the sector natural computing simulation of natural phenomena hardware from nature nature borrowed methods etc the area biological inspired computing is selected and described a systematic literature analysis of this field of research over the past 30 years shows that after a boom in neural networks in the 1990s in the last five years genetic algorithms including particularly the methods of genetic programming came to the foreground in this heuristic procedure computer

programs are optimized in an iterative loop in the startup phase programs will be randomly generated in a frequently recurring cycle the steps program execution evaluation of results determination of fitness selection and diversification especially crossover and mutation are used to grow better programs from generation to generation this work shows criteria to decide in favor of whether or not to use genetic programming proven and experimental methods are presented for all phases of the optimization process and one will find a short survey on how far these methods correlate to their natural role model this thesis also refers to common problems such as bloat a library of methods collected by the author forms a mixture of a cookbook and a toolbox to be used in genetic programming finally this thesis provides some examples where with the help of genetic programming award winning practical applications have been created which in many cases have outperformed conventionally obtained results

several researchers characterized the activation function under which multilayer feedforward networks can act as universal approximators we show that most of all the characterizations that were reported thus far in the literature are special cases of the following general result a standard multilayer feedforward network with a locally bounded piecewise continuous activation function can approximate any continuous function to any degree of accuracy if and only if the network's activation function is not a polynomial we also emphasize the important role of the threshold asserting that without it the last theorem does not hold

this is the third in a series of conferences devoted primarily to the theory and applications of artificial neural networks and genetic algorithms the first such event was held in Innsbruck Austria in April 1993 the second in Ales France in April 1995 we are pleased to host the 1997 event in the mediaeval city of Norwich England and to carry on the fine tradition set by its predecessors of providing a relaxed and stimulating environment for both established and emerging researchers working in these and other related fields this series of conferences is unique in recognising the relation between the two main themes of artificial neural networks and genetic algorithms each having its origin in a natural process fundamental to life on earth and each now well established as a paradigm fundamental to continuing technological development through the solution of complex industrial commercial and financial problems this is well illustrated in this volume by the

numerous applications of both paradigms to new and challenging problems the third key theme of the series therefore is the integration of both technologies either through the use of the genetic algorithm to construct the most effective network architecture for the problem in hand or more recently the use of neural networks as approximate fitness functions for a genetic algorithm searching for good solutions in an incomplete solution space i.e. one for which the fitness is not easily established for every possible solution instance

presents an overview of the present state of neural network research and development with particular reference to systems and control applications studies following an introduction to basic principles and design procedures the text then covers advanced structures and applications

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