

# FAST COMPUTATIONAL APPROACH TO THE LEVENBERG-MARQUARDT ALGORITHM FOR TRAINING FEEDFORWARD NEURAL NETWORKS

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## Abstract

This paper presents a parallel approach to the Levenberg-Marquardt algorithm (LM). The use of the Levenberg-Marquardt algorithm to train neural networks is associated with significant computational complexity, and thus computation time. As a result, when the neural network has a big number of weights, the algorithm becomes practically ineffective. This article presents a new parallel approach to the computations in Levenberg-Marquardt neural network learning algorithm. The proposed solution is based on vector instructions to effectively reduce the high computational time of this algorithm. The new approach was tested on several examples involving the problems of classification and function approximation, and next it was compared with a classical computational method. The article presents in detail the idea of parallel neural network computations and shows the obtained acceleration for different problems.

**Keywords:** feed-forward neural network, neural network learning algorithm, Levenberg-Marquardt algorithm, QR decomposition, Givens rotation.

## 1 Introduction

Currently, artificial intelligence (AI) is widely used both in science research and in industry. Among the issues of artificial intelligence, neural networks (NN) deserve special attention. Continuously many researchers pub-

lish a lot of scientific papers about artificial intelligence [1, 2], especially about neural networks e.g. [3, 4, 5, 6, 7, 8, 9, 10, 11]. There are more and more advanced AI solutions and methods that are willingly used in industry and various products. Important areas of neural networks applications are health care and

# Training Feedforward Networks With The Marquardt Algorithm

**Daniela Niemeyer**



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web aug 17 2023 sezon made in abyss the golden city of the scorching sun tür fantastik bilim kurgu macera gizem dram bölüm sayısı 12 12 bölüm süresi 25 dakika başlama tarihi 06 temmuz 2022 Çarşamba bitiş tarihi 28 eylül 2022 Çarşamba yaş sınırı r 17 Şiddet argo Özet made in abyss in 3 filminden hemen sonraki

**made in abyss volume 08 made in abyss wiki fandom** - Jun 06 2022

web the eighth volume of the made in abyss manga series 48 the compass pointed to the darkness 49 the golden city 50 the cradle of desire 51 the form the wish takes a page showing a sleeping nanachi next to a blessed mitty a short story showing how faputa met gaburoon a design page of reg

*made in abyss season 2 episode 08* - May 05 2022

web the form the wish takes is the eighth episode of the made in abyss the golden city of the scorching sun anime series

[made in abyss izle dizivatch](#) - Mar 15 2023

web made in abyss imdb 8 7 favorilere ekle dünyada tek keşfedilmemiş olan devasa çukur ve mağaralar sistemine hiçlik abyss deniyordu derinliklerinde garip ve harika yaratıklar barındıran bu mağaralar sistemi aynı zamanda şu anki insanlığın üretmediği kalıntılar ile

**made in abyss wikipedia** - Apr 04 2022

web made in abyss japanese 深淵の秘密 hepburn meido in abisu is a japanese manga series written and illustrated by akihito tsukushi it has been serialized online in takeshobo s digital publication web comic gamma since october 2012 and has been collected into 12 tankōbon volumes

**made in abyss 1 sezon 8 bölüm asya dizi izle** - May 17 2023

web aug 14 2022 made in abyss 1 sezon 8 bölüm kaynak 1 kaynak 2 kaynak 3 kaynak 4 sonra izle İzledim hata bildir sinema modu 14 ağustos 2022 türkçe altyazılı yorumlar 0 yorum yorum yazmak için giriş yapmanız gerekiyor asya dizileri izle adresine hoş geldiniz

**made in abyss retsujitsu no ougonkyou 8 bölüm** - Jun 18 2023

web made in abyss in 3 filminden hemen sonraki olayları anlatır reg riko ve nanachi nin altıncı katman dönülmeyen başkent teki maceralarını işlemektedir

*made in abyss wikipedi* - Sep 09 2022

web made in abyss japonca 漫画 meido in abisu akihito tsukushi tarafından yazılan bir manga serisidir seri ekim 2012 tarihinden bu yana takeshobo nun web comic gamma dergisinde yayınlanmaktadır

anime time made in abyss season 01 season 02 nyaa - Jan 01 2022

web feb 27 2023 anime time made in abyss 04 mkv 349 7 mib anime time made in abyss 05 mkv 547 0 mib anime time made in abyss 06 mkv 386 1 mib anime time made in abyss 07 mkv 292 2 mib anime time made in abyss 08 mkv 388 0 mib anime time made in abyss 09 mkv 359 5 mib anime time made in abyss

**made in abyss** - Apr 16 2023

web made in abyss japonca 21 ağustos 2023 00 28 yaz sonu alımları holysubs sorumluluk sahibi ve kendine güvenen yeni ekip arkadaşları arıyoruz İlgilenen herkesi başvuru formumuza bekliyoruz 18 ağustos 2023 23 18 Çevirmen aranıyor

made in abyss 1 sezon 8 bölüm izle diziwatch - Jul 19 2023

web sezon 8 bölüm izle diziwatch made in abyss 1 sezon 8 bölüm survival training diziwatch player İzledim sonra İzle 25 ağustos 2017 sonraki bölüm Önceki bölüm sezonun diğer bölümleri 1 sezon 1 bölüm 1 sezon 2 bölüm 1 sezon 3 bölüm 1 sezon 4 bölüm 1 sezon 5 bölüm 1 sezon 6 bölüm 1 sezon 7 bölüm 1 sezon 8 bölüm 1

*made in abyss episode 08 made in abyss wiki fandom* - Dec 12 2022

web sci fi survival training is the eighth episode of the made in abyss anime series on the third day of the training one of ozen s subterranean bandits zapo reports to her that riko has good instincts but her body can t keep up

**made in abyss 08 survival training bd dual audio 1080p 1080** - Jan 13 2023

web oct 3 2021 made in abyss 08 survival training bd dual audio 1080p 1080 topics madeinabyss made in abyss addeddate 2021 10 03 20 11 09 identifier made in abyss 08 survival training bd dual audio 1080p 1080 scanner

**made in abyss cilt 8 akihito tsukuşi fiyat satın al d r** - Jul 07 2022

web made in abyss cilt 8 kitap açıklaması arzuların kesiştiği heyecan dolu maceranın sekizinci cildi riko reg ve nanaçi altıncı katman daki posalar kasabası na ulaşır riko ayrı kalan arkadaşlarını ararken kasabanın en uzak noktasında bulunan gözlerin içi adlı yere kapatılmış bir kadın olan yueko ile karşılaşır