# Pdf free A modified marquardt levenberg parameter estimation (Download Only)

in mathematics and computing the levenberg marquardt algorithm lma or just lm also known as the damped least squares dls method is used to solve non linear least squares problems these minimization problems arise especially in least squares curve fitting the results show that under some suitable relationships of exponents v gamma and delta the modified levenberg marquardt method converges to the solution set of the system of nonlinear equations at least superlinearly numerical experiments show the new algorithm is efficient the modified levenberg marquardt method for nonlinear equations with cubic convergence jinyan fan abstract we propose a modified levenberg marquardt method for nonlin ear equations in which not only a lm step but also an approximate lm step are computed at every iteration the levenberg marquardt lm method for unconstrained nonlinear equations 52 56 see also 59 section 10 3 is a classical regulariza tion technique for handling cases when a solution can be singular and possibly nonisolated and possibly p 6 q for systems of nonlinear equations a modified efficient levenberg marquardt method with new lm parameters was developed by amini et al 2018 the convergence of the method was proved under the local error bound condition abstract in this paper we propose an accelerated version of the modified levenberg marquardt method for nonlinear equations see jinyan fan mathe matics of computation 81 2012 no 277 447 466 the original version uses the addition of the lm step and the approximate lm step as the trial step at every iteration and achieves the cubic the modified levenberg marquardt mlm method to solve nonlinear equations was introduced by fan 2012 this method uses an addition of the levenberg marquardt step and an approximate lm step as the trial step at every iteration a new modified levenberg marquardt method for systems of nonlinear equations liang chen yanfang ma first published 10 february 2023 doi org 10 1155 2023 6043780 citations 2 academic editor guotao wang sections pdf tools abstract the levenberg marquardt algorithm implementation and theory part of the book series lecture notes in mathematics lnm volume 630 work performed under the auspices of the u s energy research and development administration download to read the full chapter text in the present paper we propose a modified inexact levenberg marquardt method lmm and its global version by virtue of armijo wolfe or goldstein line search schemes to solve nonlinear least squares problems nlsp especially for the underdetermined case the levenberg marquardt algorithm combines two numerical minimization algorithms the gradient descent method and the gauss newton method in the gradient descent method the sum of the squared errors is reduced by updat ing the coeficients in the steepest descent direction in this paper we propose an accelerated version of the modified levenberg marquardt method for nonlinear equations see jinyan fan mathematics of computation 81 2012 no 277 447 466 this paper explores a new version of the levenberg marquardt algorithm used for tensor canonical polyadic cp decomposition with an emphasis on image compression and reconstruction tensor computation especially cp decomposition holds significant applications in data compression and analysis a high order modified levenberg marquardt method for systems of nonlinear equations with fourth order convergence liangchen show more add to mendeley doi org 10 1016 j amc 2016 03 031get rights and content abstract fan 2014 presented an accelerated modified levenberg marquardt method for nonlinear equations the levenberg marquardt step 1 2 is a modification of the newton s step parameter i is introduced to overcome the difficulties caused by singularity or near singularity of j xk there are various choices of the parameter in 1 2 like scenario 1 the cases in scenarios 2 3 4 and 5 are built by variations in m nr pe and h respectively figures 3 and 4 show the graphical results of each scenario the moving fin model for systems of nonlinear equations a modified efficient levenberg marquardt method with new lm parameters was developed by amini et al 2018 the convergence of the method was proved under the local error bound condition in this paper we focus on the levenberg marquardt lm method which computes the search direction by d k lm j k t j k λ k i 1 j k t f k where λ k is a nonnegative regularized parameter f k f x k and j k f x k is the jacobian of f at x k in this paper we propose and analyze an inexact levenberg marquardt method with armijo type line search for solving the system of nonlinear equations the search direction generated by the proposed method is always a descent direction for the merit function in order to train such neural network for the unknown components of dynamics a modified levenberg marquardt algorithm which can utilize the front end inputs outputs data of the entire dynamic system has been developed in the paper

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