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## AFMA: Reviewer Invitation for Robust Nonlinear Conjugate Gradient method with Strong Wolfe Line Search

1 message

Jacek Banasiak &lt;em@editorialmanager.com&gt;

Fri, May 22, 2020 at 12:08 PM

Reply-To: Jacek Banasiak &lt;jacek.banasiak@up.ac.za&gt;

To: Shazlyn Milleana Shaharudin &lt;shazlyn@fsmt.upsi.edu.my&gt;

CC: "Jacek Banasiak" &lt;jacek.banasiak@up.ac.za&gt;

Dear Dr Shaharudin,

As the Editor of the journal Afrika Matematika I want to ask you if you could review the article "Robust Nonlinear Conjugate Gradient method with Strong Wolfe Line Search" for a possible publication in our journal. The details of the submission are:

Manuscript Number: AFMA-D-18-00381

Title: Robust Nonlinear Conjugate Gradient method with Strong Wolfe Line Search

Author(s): Awad Abdalla

This is the abstract:

Nonlinear conjugate gradient (CG) methods are widely used for solving large-scale unconstrained optimization problems. Many of studies constructed scales and modifications have been conducted recently to improve this method. In this paper, make simple modified of nonlinear class of conjugate gradient coefficients ( $\beta_k$ ) with a parameter  $m = \frac{\|g_k\|}{\|g_{k-1}\|}$ . That it is given nice properties. Due to possess global convergence property and also low memory is requirement for computation. The global convergence and sufficient decent property results are established using Strong Wolfe line search. Numerical result shows that the formula is robust and more efficient when compared to other CG coefficients

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The manuscript reference is AFMA-D-18-00381.

You may submit your comments online at the above URL. There you will find spaces for confidential comments to the editor, comments for the author and a report form to be completed.

The number of papers submitted annually is large and increasingly higher standards for publication have been necessary. I would like to know whether you believe that this paper is an interesting and significant contribution to the literature, along with your other comments on originality, accuracy, and so on.

In particular the paper should be of interest to a substantial sector of the Afrika Matematika

The editors are endeavouring to shorten the period between submission and publication of a manuscript.

If you feel you will not be able to referee the paper, please inform us immediately. In this case, we would very much appreciate it if you would suggest another potential referee.

Thank you very much.

With kind regards,

Prof. Jacek Banasiak  
Editor-in-Chief  
Afrika Matematika

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