

Review Form 1.6

Journal Name:	Current Journal of Applied Science and Technology
Manuscript Number:	Ms_CJAST_85123
Title of the Manuscript:	Research on urban road traffic flow prediction based on wavelet denoising and multi-layer perceptron
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer’s comment	Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Title of the paper: "Research on urban road traffic flow prediction based on wavelet denoising and multi-layer perceptron"</p> <p>As a researcher working on the same field, I am impressed by the technique introduced in the paper, because it sheds new light on the earlier results of several authors and obviously can be successfully used in practice. From this point of view, the subject of the paper fits well with the scope of the journal (Current Journal of Applied Science and Technology).</p> <p>The paper is ended with numerical simulations that corroborate the theoretical results. This manuscript contains new ideas and good results that help other researchers. The decision is too major revision it for publication in the "Current Journal of Applied Science and Technology".</p> <p>Therefore, I recommend publishing this work after taking these points into account.</p> <p>1-The English writing of the paper is required to be improved. Please check the manuscript carefully for typos and grammatical errors. I found some typos and grammatical errors within this manuscript, which have been excluded from my review. In addition, the English structure of the article, including punctuation, semicolon, and other structures, must be carefully reviewed.</p> <p>2-In the introduction, the authors did not provide a strong motivation for the paper and the obtained results. In addition, they should discuss the main contributions of their work in detail after the motivation part. Then they should summarize the main structure of their paper in brief at the end of the introduction.</p> <p>3-The literature review about the problem under study is not adequate. I suggest the authors keep up-to-date the introductory part by the recent relevant developments and publications.</p> <p>4-I found no comparative results within this manuscript. Some comparative results with the other methods available in the literature would be expected in the revision.</p> <p>5-The introduction needs to be improved by the recent developments in the field of numerical simulation and stability as well as its applications. For this purpose, the authors can add the following references to enrich the introductory section:</p> <p>*A. M. S. Mahdy and E. M. H. Mohamed, Numerical studies for solving system of linear fractional integro-differential equations by using least squares method and shifted Chebyshev polynomials, Journal of Abstract and Computational Mathematics, 1(1), 24-32, 2016.</p> <p>*M. M. Khader, A. M. S. Mahdy and E. S. Mohamed, ON APPROXIMATE SOLUTIONS FOR FRACTIONAL RICCATI DIFFERENTIAL EQUATION, International Journal of Engineering, 4(9), 2014.</p> <p>*A. S. Mohamed, A. M. S. Mahdy and A. H. Mtawa, Approximate analytical solution to a time-fractional Fokker–Planck equation, Bothalia, 54(4),57-69, 2015.</p> <p>*Effect of rotation and magnetic field on a numerical-refined heat conduction in a semiconductor medium during photo-excitation processes, The European Physical Journal Plus, vol. 136, no. 5, pp.1-17, 2021.</p> <p>*Variable thermal conductivity and hyperbolic two-temperature theory during magneto-photothermal theory of semi-conductor induced by laser pulses, The European Physical Journal Plus, vol. 136, no. 6, pp.(1-21), 2021.</p> <p>*Numerical solution technique for solving isoperimetric variational problems, International Journal of Modern Physics C, vol. 32, no. 01, 2150002, 2021.</p> <p>*Laplace transform method for solving nonlinear biochemical reaction model and nonlinear</p>	<p>Thank you very much for your careful reading of this article and your many valuable comments. Next, I will reply to your comments one by one.</p> <p>1- I have read through the text carefully and corrected spelling and grammatical errors. In addition, I tried my best to revise the article to make it more fluid and understandable to read.</p> <p>2- This part of the content has been revised in the text and now introduces the methods used in the literature and adds the results and influences obtained in the literature. The motivation and source of inspiration for this study are also described.</p> <p>3- During the research process, we reviewed many kinds of literature, and others included the research of many scholars in recent years. We also added the latest research to the literature review section in this revision.</p> <p>4- The comparative models we adopted, such as XGBoost and RF, have been widely used in various fields (including traffic flow prediction) in recent years. We have added descriptions and explanations to this part of the literature review.</p> <p>5- Thank you for your extensive bibliography. The seventeenth reference in the article is a citation to the recommended literature.</p> <p>6- In the Section.5 of the article, we discuss the current limitations of this study and future directions for development.</p> <p>Sincerely Yours Mr. Longfeng Zhang</p>

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	<p>Emden-Fowler system, Journal of Engineering and Applied Sciences, vol. 13, no. 17, pp. 7388-7394, 2018.</p> <p>*Reduced differential transform method for solving fractional-order biological systems, Journal of Engineering and Applied Sciences, vol. 13, no. 20, pp. 8489-8493, 2018.</p> <p>*Numerical solutions for solving model time-fractional Fokker–Planck equation, Numerical Methods for Partial Differential Equations, vol. 37, no. 2, pp. 1120-1135, 2021.</p> <p>*The chebyshev collection method for solving fractional order klein-gordon equation, WSEAS Transactions on Mathematics, vol. 13, pp. 31-38, 2014.</p> <p>*Numerical solution of 12th order boundary value problems by using homotopy perturbation method, Journal of Mathematics and Computer Science, 1(1), 14-27, 2010.</p> <p>*General fractional financial models of awareness with Caputo–Fabrizio derivative, Advances in Mechanical Engineering, vol. 12, no. 11, pp. 1-9, 2020.</p> <p>*A numerical method for solving the Rubella ailment disease model, International Journal of Modern Physics C, vol. 32, no. 7, pp. 1–15, 2021.</p> <p>*Numerical solution and dynamical behaviors for solving fractional nonlinear rubella ailment disease model, Results in Physics, vol. 24, 104091, pp. 1-10, 2021.</p> <p>*Optimal and memristor-based control of a nonlinear fractional tumor-immune model, CMC: Computers, Materials & Continua, vol. 67, no. 3, pp. 3463-3486, 2021.</p> <p>6-Future recommendations should be added to assist other researchers to extend the presented research analysis.</p> <p>Sincerely Yours Prof. Dr. A. M. S. Mahdy</p>	
Minor REVISION comments		
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	