



SDI Review Form 1.6

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_49254
Title of the Manuscript:	A Novel Method for Optimizing Fractional Grey Prediction Model
Type of the Article	Method 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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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>1 Abbreviations must be explained, such as DGM, FGM(1,1,b), AGM (1,1)</p> <p>2 MAPE in Eq.(28),(31)—(33) are all wrong in italic form.</p> <p>3 Fractional grey predictions model were first proposed by Lifeng Wu in the grey system theory in the 2013. Why not cite these papers? Wu Lifeng, Liu Sifeng, Yao Ligen, et al. Grey system model with the fractional order accumulation. Communications in Nonlinear Science and Numerical Simulation, 2013, 18(7): 1775-1785 Wu Lifeng, Liu Sifeng, Fang Zhigeng, et al. Properties of the GM(1,1) with fractional order accumulation. Applied Mathematics and Computation, 2015, 252, 287-293 Wu Lifeng, Liu Sifeng, Chen Ding, et al. Using grey model with fractional order accumulation to predict gas emission. Natural Hazards, 2014, 71(3): 2231-2236 Wu Lifeng, Liu Sifeng, Cui Wei, et al. Non-homogenous discrete grey model with fractional-order accumulation, Neural Computing and Applications, 2014, 25(5): 1215-1221. Wu Lifeng, Liu Sifeng, Yao Ligen, et al. Using fractional order accumulation to reduce errors from inverse accumulated generating operator of grey model. Soft Computing, 2015, 19(2): 483-488 Wu Lifeng, Liu Sifeng, Yang Yingjie. Using fractional order method to generalize strengthening buffer operator and weakening buffer operator. IEEE/CAA Journal of Automatica Sinica, 2018, 5(6): 1074-1078 Lifeng Wu, Hongying Zhao. Using FGM(1,1) model to predict the number of the lightly polluted day in Jing-Jin-Ji region of China. Atmospheric Pollution Research, 2019, 10: 552-555 Lifeng Wu, Nu Li. Using the seasonal FGM(1,1) model to predict the air quality indicators in Xingtai and Handan, Environmental Science and Pollution Research, 2019, 26(14): 14683-14688</p> <p>4 For References, [C], [J], [D] must be deleted.</p>	<p>We would like to express our thankfulness for your much constructive and valuable advices. We have revised the paper following your comments and suggestions. The changes made in the revision appear in yellow, and the answers to your comments are listed as follows.</p> <p>Following your suggestion, we have added the full name of this model in the returned manuscript.</p> <p>Thank you for your carefully read and detailed comments, When we saw this amendment, we attached great importance to this opinion. For your comments, we have corrected the format of the formula.</p> <p>These documents were not cited due to insufficient consideration. Now, we have quoted the references you provided to us and added some other literature.</p> <p>We are very sorry for this problem. Now, according to your opinion, we have correctly revised the document format.</p> <p>Finally, we have thoroughly revised the paper in order to present a more clear and concise manuscript. We hope these corrections will meet with approval. Once again, thank you very much for your comments.</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>	