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#### 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 <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, 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 agree highlight that part in the mar his/her feedback here)
Compulsory REVISION comments	<ul> <li>1 Abbreviations must be explained, such as DGM, FGM(1,1,b), AGM (1,1)</li> <li>2 MAPE in Eq.(28),(31)—(33) are all wrong in italic form.</li> <li>3 Fractional grey predictions model were first proposed by Lifeng Wu in the grey system theory in the 2013. Why not cite these papers?</li> <li>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</li> <li>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</li> <li>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</li> <li>Wu Lifeng, Liu Sifeng, Yao Ligen, et al. Using fractional order accumulation to predict gas emission. Natural Hazards,2014,25(5): 1215-1221.</li> <li>Wu Lifeng, Liu Sifeng, Yao Ligen, et al. Using fractional order accumulation to reduce errors from inverse accumulate generating operator of grey model. Soft Computing,2015,19(2):483-488</li> <li>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</li> <li>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</li> </ul>	his/her feedback here)
	<ul> <li>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</li> <li>4 For References, [C], [J], [D] must be deleted.</li> </ul>	
MINOR REVISION comments		
Optional/General comments		

### PART 2:

	Reviewer's comment	Author's comment (if agreed
		his/her feedback here)
Are there ethical issues in this manuscript?	(If yes, Kindly please write down the ethical issues here in details)	

#### **Reviewer Details:**

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