



SDI Review Form 1.6

PART 1:

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2013_BJMCS_3921
Title of the Manuscript:	Numerical fractional differentiation: stability estimate and regularization

General guideline for Peer Review process is available in this link:

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

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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)
<u>Compulsory</u> REVISION comments	1. The authors discussed the stability estimate for numerical fractional differentiation. Could the authors give a specific numerical scheme for (1.1) and use their obtained estimate to analyze its results? 2. If the analytical technique presented in this paper can be applied to analyze (1.1) with Caputo derivative? Or analyze (1.1) with β greater than one?	1 we added a numerical experiment for (1.1) to analyze the results. 2. I think the Tikhonov regularization can be applied to analyze (1.1) with Caputo derivative.
<u>Minor</u> REVISION comments	1. In (3.3), $f_{\delta}(\cdot)$ should be changed $\hat{f}_{\delta}(\cdot)$; 2. In the Line below (3.3), "the" to "then";	1. We have revised it ,please see page 3. 2. We have revised it ,please see page 3.
<u>Optional/General</u> comments		