



**SDI Review Form 1.6**

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| Journal Name:            | <b><u>British Journal of Mathematics &amp; Computer Science</u></b>                                                            |
| Manuscript Number:       | <b>2013_BJMCS_6371</b>                                                                                                         |
| Title of the Manuscript: | <b>On the Existence and Nonexistence of Positive Solutions for Singular Quasilinear Elliptic Equations with Gradient Terms</b> |
| Type of the Article      | <b>Research Paper</b>                                                                                                          |

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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.

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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) |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b><u>Compulsory</u></b> REVISION comments |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                               |
| <b><u>Minor</u></b> REVISION comments      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                               |
| <b><u>Optional/General</u></b> comments    | <p>In this paper, the author consider a quasilinear elliptic equation with sigular boundary condition. By reduction to absurdity and using the upper and lower solution method, the author proved the non-existence and existence of positive solutions. But there exist some mistakes in the proof of the existence of solutions.</p> <p>Comments:</p> <ol style="list-style-type: none"> <li>Page 5, Line 4: <math>\varphi_1</math> be changed to <math>\varphi _{\infty=1}</math>, is it right?</li> <li>Page 5, Line 6: <math>C_1</math> should be changed to <math>c_1</math>, "such" --&gt; "such that"</li> <li>Page 5, Line 8: "Since comparison principle" --&gt; "By comparison principle"</li> <li>Page 6, Line 4-6: Why <math>\int_0^1 \varphi_p^{1-\int_0^1 a(\tau)d\tau} = \infty</math> means <math>\int_{\Omega_\delta} G_p^1(a(\delta(x)))dx = \infty</math>?</li> <li>Page 6-7, I think the proof of Lemma 4.1 is wrong. In this lemma, The condition <math>\lambda &lt; 0</math> is needed? If that is so, then the solution of (4.7) is not a sub-solution</li> </ol> | <p><b>My paper have been modified arccording to Review. Please see the correct the manuscript.</b></p> <p>Lemma 4.1 <b>have been modified.</b></p>                            |



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|  | <p>of (4.2). But<br/>if not so, then <math>v_k &lt; v_{k-1}</math> since <math>v_1 &lt; v_0</math>, so the<br/>inequalities in line -5 of the proof is not right.</p> <p>6. Page 8, line 16, “super-solution” → “sub-solution”</p> <p>Owing to the above reasons, I could not recommend the<br/>publication of the paper.</p> |  |
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