



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2015_BJMCS_18555
Title of the Manuscript:	Design, Optimization and Fabrication of a Climbing Six Articulated-Wheeled Robot using Artificial Evolution and 3D Printing
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:

(<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)
Minor REVISION comments	Authors presents a very interesting and novel system that consists of 6-wheel active wheel robot where each wheel is articulated. They propose an artificial intelligence system based on an evolutionary approach to determine the best parameters for the wheels and wheel arm support size. According to the authors, other similar works are based on manual definitions of the geometric size of these parts. I'm my opinion the article has journal quality. The work is very good in the aspect that it presents the concept, problem, solution, simulation, and real world implementation with several setups and an experimental analysis.	
Optional/General comments	1. An orthographic and grammar should be done. The article is well written, but some points could be improved. (Rare sensor -> Rear sensor) 2. All figures should be cited on the text (some are not cited) 3. IMPORTANT - I think there are very few references. It is very important to add more references and better review the state of the art. On a quick Google scholar search for for " Articulated-Wheeled Robot", several	



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	works were found with similar ideas and concepts. Some classic works on this area such as Space rovers are not cited. 4. No details about the electronics are given. Which sensor was used to measure distance? Is it IR or Ultrasound based? No specification for the motors is given: are standard servos used? Which motors are used to drive the wheels? What is the torque and speed of such motors? 5. 3D Printing citations should preferably cite a journal article and not a website.	
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Reviewer Details:

Name:	Anonymous
Department, University & Country	<i>Federal University, Brazil</i>