



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	2013_BJMCS_8708
Title of the Manuscript:	A weaker condition for stable Lagrange duality in DC conic programming
Type of the Article	OriginalResearchArticle

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.

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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	Let X and Y be real locally convex Hausdorff vector spaces, $C \subseteq X$ be a nonempty convex set and $S \subseteq Y$ be a closed convex cone. Let $f, g : X \rightarrow \mathbb{R} \cup \{+\infty\}$ be proper functions and $h : X \rightarrow Y$ be an S-convex mapping with respect to the cone S. This paper considered the following DC conical programming: $\begin{aligned} &\text{Min} \quad f(x) - g(x), \\ &\text{s. t.} \quad x \in C, h(x) \in -S. \end{aligned}$ By using the informal convolution of the conjugate functions, the authors introduce a new constraint qualification, which is weaker than the regularity conditions given so far. Under this new constraint qualification, they give a sufficient and necessary condition for the DC conical programming to have the stable Lagrange duality. The paper is well-written, the results are meaningful and original and the main theorem improves the corresponding results in the early paper. For all these reasons, I recommend publication in "British Journal of Mathematics & Computer Science".	
Minor REVISION comments		
Optional/General comments		

Note: Anonymous Reviewer