



SDI Review Form 1.6

Journal Name:	Journal of Advances in Mathematics and Computer Science
Manuscript Number:	Ms_JAMCS_35984
Title of the Manuscript:	POPULATION DYNAMICS IN OPTIMALLY CONTROLLED ECONOMIC GROWTH MODELS: CASE OF LINEAR PRODUCTION FUNCTION
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.

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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		
Minor REVISION comments	- This paper use a linear aggregate production function of capital and labour (and technology). "Assuming, in addition to the unit homogeneity, Y is linear in K and L, that is, Y is defined by $Y(K(t), L(t)) = \alpha K(t) + \beta L(t)$" (page 7) "Consider a simple Malthusian economy in which the only factors of production are natural resources, $R(t)$, and labour, $L(t)$. Assume that the aggregate production function is linear in $R(t)$ and $L(t)$, as used above, that is, $Y(t) = \varepsilon R(t) + (1 - \varepsilon)L(t)$, where $0 < \varepsilon < 1$" (page 9) <i>Linear Production Function has the following characteristics: (i) constant returns to scale; (ii) constant marginal rates of substitution, and (iii) all inputs are perfectly substitutable. Despite its mathematical simplicity, the linear production function with several inputs is rarely used in the economic theory because</i>	This portion has been paraphrased as: "Assume Y is linear in K and L, that is, Y is defined by $Y(K(t), L(t)) = \alpha K(t) + \beta L(t)$." Thus the seemingly repetition is taken out. This paper is not a finality in itself. It is just the first of a series of papers seeking to analyze the effects of population growth dynamics in the performance of real per capita income. Hence, the discussion does not begin and end with this simplistic form of aggregate production function which even shows instability.



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	<i>it violates the fundamental economic property of the input essentiality (production is not possible without any of the inputs). However, the linear production function with one input (capital) known as the AK production function has been intensively investigated.</i>	
<u>Optional/General</u> comments		