

Review of: "Periodic second-order systems and coupled forced Van der Pol oscillators"

Mohamed Houasni¹

¹ Université Djilali Bounaama Khemis Miliana

Potential competing interests: No potential competing interests to declare.

Report on a paper for Qeios entitled:

Periodic second-order systems and coupled forced Van der Pol oscillators

First version

By Feliz Minhós and Sara Perestrelo

This paper is devoted to the study of a periodic solutions of second-order non-linear coupled planar systems. The author proved the Existence and localization of a periodic solution by using the variation of the Nagumo condition and the Topological Degree Theory, and a technique of orderless upper and lower solutions, respectively. The paper is well written, the problem is interesting and the result is correct. I suggest to accept this paper after a minor revision.

Here below some suggestions:

1- Add a reference for each dention.

2- I advise the author to write "lemma" instead of "Claim" and add a proof as a subsection for each Lemma.