

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

Dan Wang¹

¹ University of Jinan

Potential competing interests: No potential competing interests to declare.

Comments:

In this paper, the author presents an existence and localization result for periodic solutions of second-order non-linear coupled planar systems, without requiring periodicity for the nonlinearities. The arguments for the existence tool are based on a variation of the Nagumo condition and Topological Degree Theory. The topic is interesting; some comments are listed in the following.

1. Please explain the possible applications of equation (3).
2. Equation (4) is not in complete form.
3. The language should be improved.
4. Whether equation (3) has some real applications, especially for the terms of the nonlinearity, please explain more.
5. Please explain Example 5 in the part of the Conclusion.
6. Comparisons can be made to show the superiority of your work over other existing methods.