Review Report Form 3

The paper by Nicola & Nicola deals with the performance improvement of a power converter, in the framework of electronics. By means of mathematical modeling and numerical simulations, the roles of different implementations - with the aim of supplying a constant DC voltage to the microgrid independently of the load applied - are investigated. After recalling the Kirchhoff laws and Laplace transform, and expressing the transfer function in terms of the circuit parameters, the authors introduce few basic notions of fractional calculus (derivatives and integrals of non-integer order), and present its application to the problem under analysis. Focusing then on concepts such as machine\reinforcement learning, agent training\validation and synergetic controllers, they study the efficiency of several systems with respect to a classical benchmark, and conclude by identifying the best implementation method via computations with Matlab\Simulink. Their results are carefully presented and plotted, and the relevance of these findings with respect to the existing bibliography from scientific literature is thoroughly discussed.

In my opinion, the article deserves publication on Fractal and Fractional. Hereafter I only mention few minor issues, to be addressed by the authors.

1) Line 13: just as done in the following lines in the abstract, it would be useful to write in full the meaning of the PI acronym.

2) Line 126: "şi" -> "and"

3) Lines 311 and 328 and 386 and 402: is the expression "presents synthetic" correct?

4) Line 433: what does "LR" stand for?

Dear reviewer, thanks for your recommendations and appreciations.

1) We have written the full meaning of the PI acronym in Abstract.

2) We have corrected in Line 126: "şi" -> "and".

3) We have inserted in Lines 311 and 328 and 386 and 402: "presents synthetic" with "presents concise".

4) We have corrected in Line 433: "LR" with "RL" (Reinforcement Learning).