Review of: "Applications of Deep reinforcement learning in MEMS and nanotechnology"

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The authors present in this manuscript a short review on recent applications of deep reinforcement learning (DRL) in the context of micro-electro-mechanical systems (MEMS) and nanotechnology. In particular, they describe how in recent years DRL has assisted in the fabrication of a variety of devices in these two fields and how this AI branch has helped to automate many of the traditional tasks in those topics.

There is currently a tremendous interest in the application of different AI techniques in conventional disciplines in science and engineering and, in this sense, reviews on this subject are certainly welcome to follow the rapid progress. However, this brief paper does not achieve any of the expected goals of a good review like, for instance, to provide an accessible introduction to a subject for newcomers in the field or to provide an extensive list of references that can be useful for researchers working on that field. The basics of DRL are not covered in this manuscript and there are barely 10 references in total, which leaves the reader with the impression that this topic is not mature enough or that it does not yet have the necessary critical mass to justify the publication of a topical review.

So, in short, as an expert in nanotechnology who is using AI techniques in my daily research, I do not find this manuscript particularly useful or well written. As I mentioned above, a good review should ideally provide a didactic introduction to a topic and a thorough list of references. Both things are clearly missing in this preprint.