



## The Influence of sampling frequency on various MPPT Tracking

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### Abstract:

The use of renewable energy is experiencing a significant growth in the world.

With the increasing demand for electric power mainly for the needs of remote, deserted and mountainous regions, the photovoltaic systems, particularly telecommunications and water pumping systems, begin founding great applications.

In this work, we will look on the parameters influencing the MPPT control and governing the operation of these latter.

Indeed, the sampling frequency is an important parameter in determining the work done by the command so by the calculator.

Therefore a thorough analysis showing the influence of the sampling frequency on the MPPT control is set in the first object.

The main interest will be focused on the power ripple caused by oscillations around the PPM and its dependence on the sampling frequency of various technical MPPT and the DC-DC chopper used.

### Biography:

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### Publication of speakers:

1. Issaadi, Salim & Issaadi, Wassila & Khireddine, Abdelkrim. (2019). New intelligent control strategy by robust neural network algorithm for real time detection of an optimized maximum power tracking control in photovoltaic systems. *Energy*. 187. 115881. 10.1016/j.energy.2019.115881.
2. Issaadi, Wassila & Issaadi, Salim. (2019). *Robotics and Mechatronics*.
3. Issaadi, Wassila. (2019). *Robotics and Artificial Intelligence*.
4. Issaadi, Wassila. (2018). *The 3rd conference on Renewable Energy Sources - Research and Business (RESRB)*.
5. Issaadi, Wassila. (2018). *2nd World Congress on Wind & Renewable Energy*.

### Webinar on Nano-Engineering and Its Applications

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