

## **AdVirgo software architecture to control stepper motors: requirements and solutions.**

In Advanced Virgo ten super attenuators under vacuum isolate the mirrors from seismic noise. Each tower is equipped with more than 20 stepper motors used to change the DC position of the suspension filters and their sensors. An additional set of motors is required to move the mirrors used by the Thermal Compensation System (TCS). A software application to control the motors, check their correct operation and avoid the injection of magnetic noise has been designed and implemented. The tool is based on Tango SCADA in order to be compatible with other internal and external systems. A user-friendly interface has been developed using PyQt.

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