

## 2nd TETIS Workshop



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# The monitoring, logging and alarm system of the ASTRI Mini-Array

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The ASTRI Mini-Array is an international collaboration led by INAF devoted to the construction and operation of an array of nine 4m-class, dual-mirror Imaging Atmospheric Cherenkov telescopes located at the Teide Observatory (Canary Islands), sensitive to gamma-ray radiation at energies above 1 TeV. Large volumes of monitoring and logging data result from the operation of an array of Atmospheric Cherenkov telescopes. In the last few years, several “Big Data” technologies have been developed to deal with such volumes of data, especially in the Internet of Things (IoT) framework. The ASTRI Mini-Array Monitoring Logging and Alarm (MLA) system provides an unified and coherent environment that aims at supporting the analysis of scientific data and improving the operational activities of the telescope facility. MLA is also designed to enable remote monitoring, predictive maintenance, software interoperability as well as an efficient organization of alarms and alerts.

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