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MIM: Interactive Software for Processing and Visualizing Multipoint and Multi-instrument Data

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Being able to visualize and analyze spacecraft measurements in an interactive way is essential for understanding our local space environment. The Manager for Interactive Modules (MIM) software package is an interactive working environment that has been developed to achieve this goal. It includes very powerful data processing algorithms to perform a variety of tasks, targeted toward comparative analysis of data from different sources, for example the analysis of multi-spacecraft data and comparison of space weather model predictions with spacecraft observations. The MIM software is written in an object-oriented style in MATLAB. The software itself is modular and can be extended as needed. In particular, modules are provided to perform specific multi-spacecraft data analysis tasks, such as timing analysis, gradient computation, various types of data-driven reconstruction, etc.. Much attention is paid to user-friendliness of the graphical interface. Extensive on-line documentation is available. Furthermore, there is the possibility to record or to write scripts for the MIM environment, which can later be replayed. Scripts are available to help explain the usage of the various MIM modules. The MIM software is available for educational and scientific research purposes. It can be downloaded from http://www.oma.be/MIM/main_page.html.