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## **Detection of Biomass Burning Smoke and Dust from MODIS using Algorithm MAIAC**

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Multi-Angle Implementation of Atmospheric Correction (MAIAC) is a new generation algorithm which uses time series analysis and processing of groups of pixels for advanced cloud detection and retrieval of aerosol and surface bidirectional reflectance properties. MAIAC makes aerosol retrievals from MODIS data at high 1km resolution providing information about the fine scale aerosol variability. This information is required in different applications such as urban air quality analysis, aerosol source identification etc. We will give an overview of MAIAC algorithm focusing on its aerosol typing capability which allows us to separate strong smoke or dust plumes from clouds and characterize their properties.