Providing a user-friendly outlier analysis service implemented as open REST API

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Outline

• Outlier detection is crucial to reliable research
• Definition of “outlier” varies by application
• Increasing online availability of environmental time-series data

• Approach: Provide public Web service for outlier analysis
  • Based on ensemble of outlier detection methods from different R-packages
  • Operating on data sourced from Sensor Observation Service (SOS) or from files from the cloud
  • Accessible via REST API

• Outlook: Refine initial EOSC-HUB prototype throughout eLTER+ project
Source Code and Example Notebooks:
https://github.com/d0rg0ld/OutlierDetection4EOSC