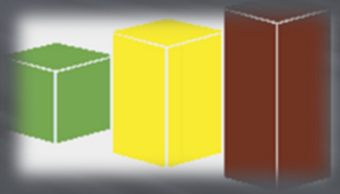
RESEARCH DATA ALLIANCE

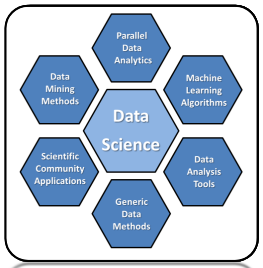


Big Data Analytics Interest Group

Morris Riedel, Rahul Ramachandran, Peter Baumann
Co – Chairs

research data sharing without barriers
rd-alliance.org

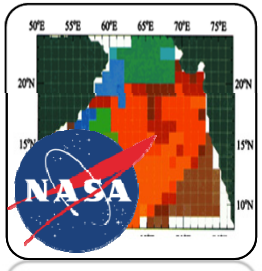
Big Data Analytics



Contributions

- Tackles bottom-up use cases that require ‘big data analytics‘
- Provides a systematic classification of technology combinations
- Develops recommendations on feasible analytics approaches
- Offers best practice guides for researchers & concrete problems

Selected use cases with concrete problems



Event Analytics

- Problem: event tracking analytics (understanding somali jets)
- Data sets from satellites (‘events with changing geolocations‘)
- Technologies: HPC/HTC (map-reduce), data-bases, several algorithms
- Status: review existing event tracking approaches & algorithms

Outlier Detection

- Problem: automatic outlier detection in ‚big data‘ (PANGAEA)
- Data sets from time-series measurements (e.g. ‘Koljoefjords, Sweden‘)
- Technologies: HPC/HTC (map-reduce), R (outliers, RMPI)
- Status: investigating outlier algorithms to use

B2SHARE
Store and Share Research Data