

IVOA and remote computing

- Grid and Web Services (GWS) working group
 - Working with Knowledge Discovery (KDD) interest group to define use cases
- Goal: Fast computing--Interoperable computing services close to the data
 - Interactive computing and visualization?
 - Batch and parallel processing
 - Language agnostic? (containers?)

ML Remote Execution Prototyping

- Train and run a algorithm on a full set of data
 - Creating training data-set
 - Remote execution
 - Storage of results
- Make use of existing VO protocols
- Perform certain steps manually if necessary, worry about optimizations later
- Document the interactions between the scientists and the infrastructure provider
- This reveals requirements for an API to remote batch execution

IVOA and remote computing

- Must allow data centres to optimize the approach to executing batch processes
 - Combination of API and code may assist with provenance and reproducibility
 - We encourage experiments and prototypes
 - Feedback to the IVOA
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- Contribute! Here, and at the KDD/GWS Session Saturday Morning