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Quality, Trust, and Utility of Scientific Data on the Web: Towards a Joint Model.

Matthew Gamble

Prof. Carole Goble

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Fitness of Scientific Data - Quality, Trust, Utility

Quality

Objective - against standard

Standard

Trust

Predictor - independent of standard

Reputation

Authority

Utility

Subjective - against users requirements

Timeliness

Relevance

Data-entry
Precision
Experimental Process
...
Citation
Source
...
Date
Description

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Overall Assessment

Quality

Precision
Accuracy
Correctness
...

Trust

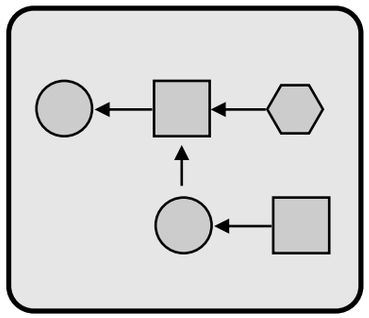
Reputation
Authority
Recommendation
...

Utility

Timelines
Relevance
Availability
...

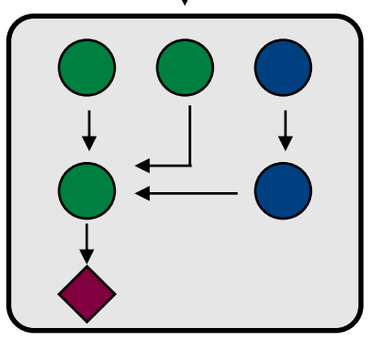
Independant

Provenance



Dependant

Decision Network



Score/Rank

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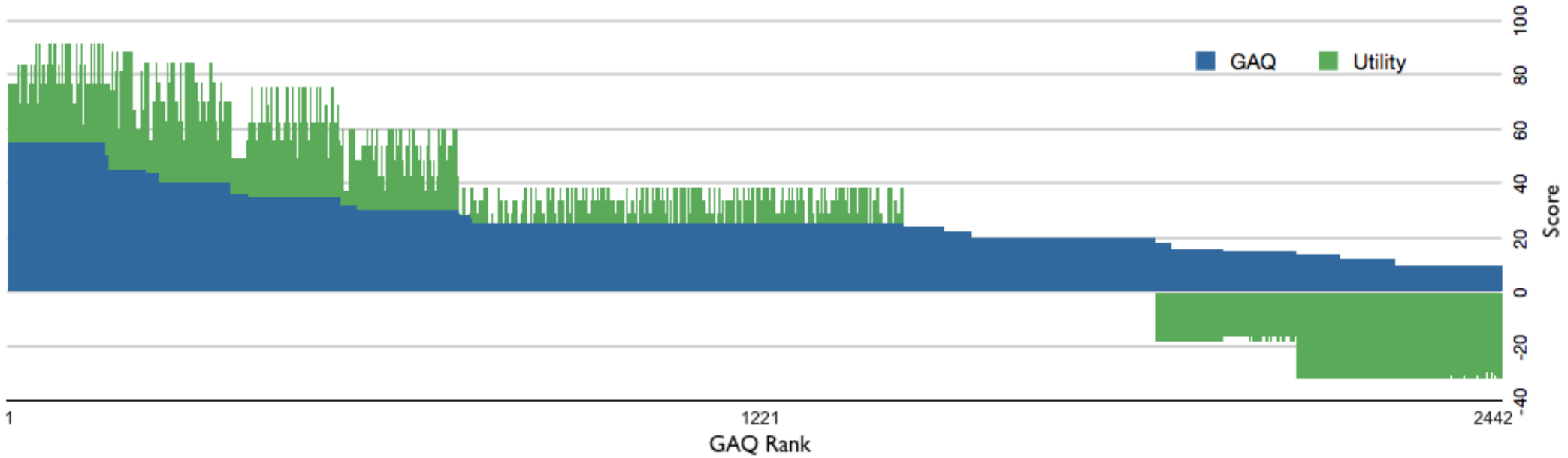
Initial Results & Summary

- Pilot Study - Successfully Score & Rank fitness.



- Next: Expand w/ ChemSpider in formative study.

ChemSpider
Building community for chemists

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Thank You

- Questions?

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