Science From Big Data: Large Scale Data Initiative at STScI

Steve Murray

Nov 26, 2012

MAST
Users
Group
Meeting

Nov 26
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Working Group

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- WG originally organized by Jean-Rene Roy over the summer

- Developed Terms of Reference for the WG leading to a 'white paper' on the issues associated with doing science from very large data sets

- STScI Large Data Initiative to explore how to leverage expertise at STScI in dealing with large data sets

STScI Large Data Initiative

- Stephen Murray Project Scientist
- Anton Koekemoer Deputy Project Scientist
- Working Group:
  - F. Boffi, C. Christian, A. Conti, G. Greene, R. Hanisch, H. Jenker, D. Liska, S. Lubow, P. Mishra, A. Rest, R. White
- First meeting November 12, 2012

STScI Large Data Initiative Plans

- White Paper as outlined in Terms of Reference

- Partnership with JHU/A. Szalay

- Community outreach for other partners and collaborators

- Use of PanSTARRS as testbed for Big Data project in near term (6-9 months). Several specific ideas being evaluated by task groups

  – Image Construction

  – Source Detection and Cataloging

  – Database Discovery Potential

Future: Community Involvement

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- Aim to involve community at all levels (incl small-scale teams through to large surveys):
  - determine how best to achieve additional science from large datasets
  - may involve townhall meetings, workshops, other events to include community
- Ultimate goal is to continue making it as easy as possible to do new science on all scales, as we move into the era of large datasets