



Earth Science Informatics

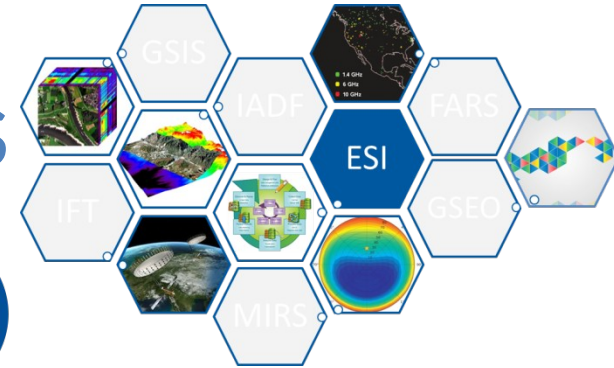
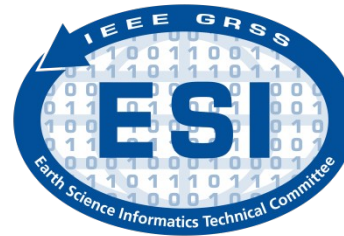
TC Chairs:

Peter Baumann (Jacobs Uni)

Peng Yue (Wuhan Uni)

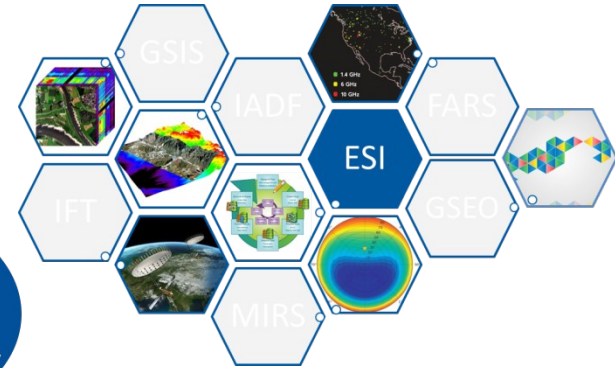
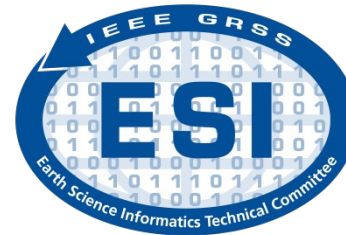
Rahul Ramachandran (NASA MSFC)

Contact: esi_chairs@ieee-grss.org



- Advance application of informatics to GRSS
- venue for ESI professionals to exchange information & knowledge
- technology advice to major national & international ESI initiatives
- Areas of Interest: Data & information policies, data stewardship, Earth system modeling, datacubes, sensor web, cloud computing, emerging technologies,...
- *July 2018: 184 members, after weeding out dead addresses*


Earth Science Informatics




- Standardization:
 - ISO TC211:
 - 19123-2 Coverage implementation schema (CIS) \hookleftarrow adopted
 - 19123-1 Abstract Coverage Model \hookleftarrow under way
 - ISO SC32 WG3 SQL: 9075 Part 15 Multi-Dimensional Arrays (MDA) \hookleftarrow FDIS ballot
 - OGC:
 - Web Coverage Service (WCS) 2.1 \hookleftarrow adopted
 - WCS Polygon/Raster Clipping 1.0 \hookleftarrow commenced


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- RDA Array Database Report
 - 19 tools assessed & compared functionally
 - 4 tools benchmarked
 - March 2018
 - Technically supported
 - DOI: dx.doi.org/10.15497/RDA00024




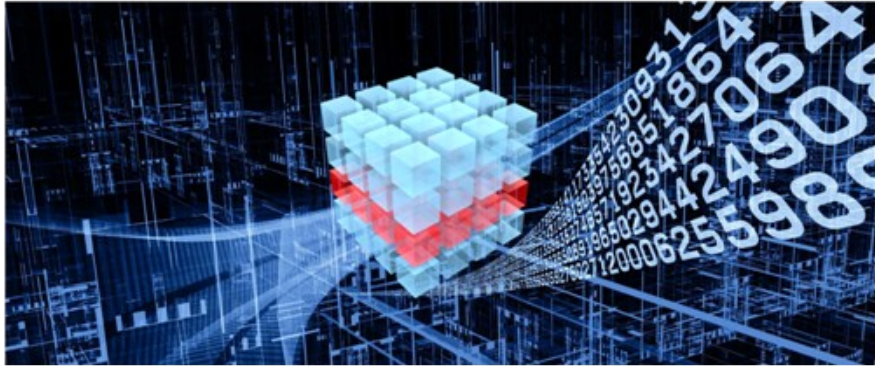
RESEARCH DATA ALLIANCE





JACOBS UNIVERSITY





Array Databases: Concepts, Standards, Implementations

Peter Baumann¹, Dimitar Misev², Vlad Merticariu², Bang Pham Huu², Brennan Bell², Kwo-Sen Kuo²

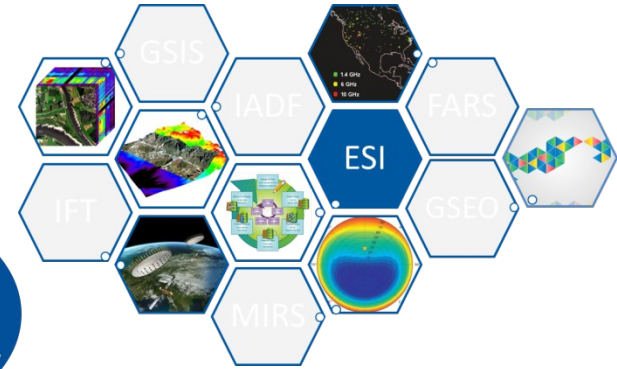
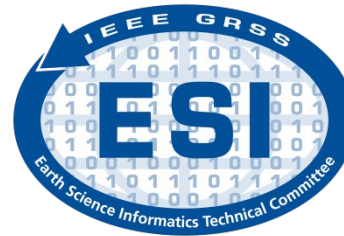
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Earth Science Informatics



- 2018:
 - Intl Workshop on Big Geospatial Data & Data Science, Wuhan U, China, Sep 2018
 - Datacube working group: Exploring interest & options
 - Expressions of interest
 - ESI workshop?
- 2019:
 - ESA Big Data from Space Conference, Munich, Feb 2019
 - Technical sponsorship, further support under investigation