Ontology Summit 2016:
Framing the Conversation:
Ontologies within Semantic Interoperability Ecosystems
Summit Launch – February 11, 2016

Healthcare Track

Co-Champions:
Ram D. Sriram (NIST)
Leo Obrst (MITRE)
Healthcare Track: **Goal**

- Healthcare and biomedical domains: a very large ecosystem of vocabularies and ontologies
  - Health Level Seven (HL7): http://www.hl7.org/
  - Open Biological and Biomedical Ontologies (OBO): http://www.obofoundry.org/
  - National Center for Biomedical Ontology (NCBO) BioPortal: http://bioportal.bioontology.org/
  - Logical Observation Identifiers Names and Codes (LOINC): https://loinc.org/
  - RxNorm (normalized names for clinical drugs): https://www.nlm.nih.gov/research/umls/rxnorm/
  - SOLOR (normalized terminology model of SNOMED, LOINC, RxNorm): US Veterans Health Administration (VHA)
  - Federal Health Information Model (FHIM): http://www.fhims.org/content/420A62FD03B6_root.html
  - Fast Health Interoperability Resources (FHIR): https://www.hl7.org/fhir/

- **Goal of Track**: To provide insight into the nature of semantic interoperability issues and approaches in the Healthcare ecosystem
Healthcare Track: Mission

- Present issues of semantic interoperability and integration in domain of healthcare: Example: Semantic Electronic Health Record (EHR) and Systems
- Discuss approaches in semantic interoperability and integration in healthcare: precordination, postcoordination, mapping, anchoring, foundational ontologies and architectures, hybrid approaches
- Discuss approaches for achieving semantic interoperability of vocabularies and ontologies in healthcare
- Discuss gaps in current approaches in semantic interoperability in healthcare
- Discuss current/future challenges and prospects in semantic interoperability in healthcare
- Propose best methods for achieving semantic interoperability in healthcare
Healthcare Track: Proposed Speakers

• March 10:
  – Nigam Shah (Center for Biomedical Informatics Research, Stanford University, USA)
  – Kincho Law (Department of Civil and Environmental Engineering, Stanford University, USA)
  – Olivier Bodenreider (US National Library of Medicine, USA)
  – Jans Aasman (Franz, Inc., USA)

• April 7:
  – Amit Sheth (Kno.e.sis, Wright State University, USA)
  – Barry Smith (U-Buffalo, NY, National Center for Ontological Research, USA)
  – Keith Campbell (US Veterans Health Administration (VHA) Knowledge-Based Systems, USA)
  – Leo Obrst (MITRE, USA)
Healthcare Track: Outcomes

• Action items for joint Industry, Academia, Government strategies for semantic interoperability in healthcare
• Action items for future research
• Recommendations for Communiqué