

An Infrastructure for Computable Food Systems: Ontological Modeling of a Smart Foodshed

A Workshop at the 2019 IC-FOODS Conference

Purpose: Advancement of analyses linking land use, agriculture, food processing, diet and health for decision-making.

Aim: To produce a framework that enumerates and connects ontologies, computable vocabularies, and datasets.

Use Case/Problem Statement: Does food composition and nutrient variability in agricultural production impact health in an integrated food system?

Format: Facilitated large and small group discussions.

Agenda (subject to change):

Time	Activity	Presenter
8:30-9:00	Tutorial: Ontology 101	Matthew Lange
9:00-9:30	Tutorial: PPOD+ and FoodON ontology	Allan Hollander and Damion Dooley
9:30-10:00	Problem statement and concept mapping group activity	Ayaz Hyder
10:00-10:10	Break and form groups	

	Food Systems and Health Group		Food Composition & Ontology Group	
Time	Activity	Presenter	Activity	Presenter
10:10-10:50	Key stakeholders with Power vs. Interest mapping	Ayaz	Key existing ontologies with Relevance vs. Development mapping	Damion
10:50-11:20	Linking stakeholders to PPOD+	Allan	Identifying missing ontologies	Matt
11:20-11:30	Break			
11:30-12:30	Dataset elicitation and linking datasets to PPOD+	Allan and Ayaz	Linking Ontologies to PPOD+	Matt and Damion
12:30-1:30	Lunch			

Time	Activity	Lead
1:30-2:30	Sharing of outputs from group sessions	Matt
2:30-2:45	Coffee/Networking	
2:45-3:45	Mapping existing/new ontologies ↔ datasets ↔ stakeholders via PPOD+	Matt
3:45-4:00	Discussion of next steps, papers and future workshops	Matt

Additional resources:

1. Ontologies (PPOD, Issues/indicators, expertise, standards, taste, etc.)
 - a. PPOD: <https://github.com/adhollander/ppod>
 - b. FoodOn: www.foodon.org
 - c. The OBO Foundry: <http://obofoundry.org>

Contact information for workshop presenters:

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