Title: Formalizing Requirements Verification and Validation
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Abstract. The Verification and Validation of requirements are formalized using decomposition and set theory to yield four elemental criteria, verifiability, feasibility, necessity, and sufficiency, which are derived from definitions of requirements “verification” and “validation”, and “correct and complete” requirements. These criteria are mapped to the fourteen characteristics of requirements in the INCOSE Guide to Writing Requirements. Requirements parent-child relationships are established for the verification and validation (V&V) criteria at multiple levels of system architecture, from user needs to component requirements. Using these V&V criteria during the requirements development process would enable improved first-pass success and less rework caused by revisiting missing, incomplete, incorrect or unnecessary requirements.

Location: Razzis Pizzeria Banquet, Room 8523 Greenwood Ave N, Seattle, WA 98195-2180
Date: Wednesday, 6/13/2018
Agenda: 5:30 pm - Food/Social 5:50pm - General Business Meeting 6:00pm - Presentations
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