

IEEE RAS Standards Strategy Meeting

May 19, 2019

Montreal, Canada

(in conjunction with ICRA 2019)

Background

- IEEE RAS Standards Strategy Meeting
 - September 30, 2018 at IROS in Madrid
 - Goal: review and refine an overall robotics standards landscape to determine areas in which the IEEE RAS should focus on robotics standards development.
 - Multiple areas were proposed:
 - Verification of autonomous systems
 - Robot agility performance metrics
 - Harmonization of robot terminology among the various standard organizations



Meeting Objective/Goals

- The objective of the meeting is to focus on harmonization of robot terminology amongst the various standards organizations. Specific goals include:
 - Determining the best mechanism(s) for the various standards organization to work together to address this issue.
 - Determine the best approach to address the harmonization issue, whether it be a mapping between terms, a common ontology, or something else.
 - Work through a small set of terms/concepts

Introductions

Please state your name, organization, and your role in robot standards

Agenda

Start Time	End Time	Topic	Speaker
9:00	9:20	Welcome/Overview/Introductions	Craig Schlenoff
9:20	9:30	IEEE WG Presentation - IEEE 1872 - CORA	Craig Schlenoff
9:30	9:40	IEEE WG Presentation - IEEE P1872.1 Robot Task Representation	Stephen Balakirsky
9:40	9:50	IEEE WG Presentation - IEEE P1872.2 - Autonomous Robotics	Veera Ragavan
9:50	10:00	IEEE SG Presentation – Verification of Autonomous Systems	Signe Redfield
10:00	10:10	IEEE WG Presentation - IEEE P2751 - 3D Map Data Representation	Francesco Amigoni
10:10	10:20	IEEE Ethics Efforts (P7007)	Edson Prestes
10:20	10:30	IEEE Ethics Efforts (P7008)	Laurence Devillers
10:30	10:40	BREAK	
10:40	10:50	ISO TC299 WG1 (Vocabulary and Characteristics)	Soon-Geul Lee
10:50	11:00	ISO TC299 WG3 (Industrial Safety)	Roberta Nelson Shea
11:00	11:10	ISO TC299 WG4 (Service Robots)	Seungbin Moon
11:10	11:20	ISO TC299 WG6 (Modularity)	Gurvinder Virk
11:20	11:40	RIA Efforts in Robot Standards	Carole Franklin
11:40	12:00	ASTM Efforts in Robot Standards	Roger Bostelman
12:00	12:20	OMG Efforts in Robot Standards	Koji Kamei
12:20	12:40	ASME Efforts in Robot Standards	Angel Guzman Rodriguez
12:40	13:40	LUNCH	

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Start Time	End Time	Topic	Speaker
13:00	13:20	RIA Efforts in Robot Standards	Carole Franklin
13:20	13:40	OMG Efforts in Robot Standards	Koji Kamei
13:40	14:00	ASME Efforts in Robot Standards	Angel Guzman Rodriguez
14:00	14:20	Ways for the Standards Bodies to Work Together	Jodi Haasz / Christy Bahn
14:20	???	DISCUSSION – Is there a terminology problem? It is important to address? Collaborations and Next Steps	All
???		ADJOURN	
19:00		Holder's - IEEE Hosted Dinner 407 Rue McGill #100a, Montreal, QC H2Y 2G3, Canada http://restaurantholder.com/en/	

What to Focus on in Your Presentations

- The first part of the meeting is meant to identify if there is a terminology issue between standards organizations (and groups within the standards organization) and how significant it is. I ask that you address the following questions:
 - How does your group define terminology (e.g., ontologies, glossaries, something else)?
 - How do you define the following terms (as appropriate): robot, automated robot, teleoperated robot, environment, pose?
 - How did you determine these definitions (e.g., adopted from other standards, consensus among group members, something else)?

Other ICRA Terminology-Related Meetings

- Monday, 9am-11am, Autonomous Robotics Ontology Meeting, Room 522a
- Monday, 12pm-5pm, Verification of Autonomous Systems Meeting, Room 522b
- Tuesday, 8:30am-12pm, Robot Agility Meeting, Room 522c
- Tuesday, 12pm-5pm, Robot Task Representation Meeting, Room 522b
- Thursday, 9am-5pm, 3D Map Representation Meeting, Room 522b