



IEEE SA - 1872.2 Standard for Autonomous Robotics (AuR) Ontology Working Group

Call and Agenda

Meeting Agenda for December 3, 2020, 1PM-2:30PM UTC

You have been invited to the IEEE SA WG P1872.2 meeting. Join the meeting:

<https://join.skype.com/Buruz9jby49e>

1. Call to order (Howard)
2. Introduction and rosters (Alberto)
3. Approve today's agenda (Howard)
4. Approve prior meeting's minutes (Alberto; October 26)
5. Essential Patent Claims (Alberto)
6. Status updates/previous action items (Howard)
7. IEEE Copyright Policy (Howard)
8. Technical discussion (Revision of the standard draft after latest changes)
9. Next meeting's topic: nomination of presentation
10. New business/announcements/events/last thoughts
11. Close meeting (Howard)

Minutes for the Official Meeting on December 3, 2020

Alberto Olivares-Alarcos transcribing



Rosters

- Y and N state for Yes and No
- ^ means the attendee is a *Voting Member*
- Members highlighted in **green** are eligible to become a *Voting Member*
- Members highlighted in **red** are eligible to lose *Voting Membership*
- Last column contains today's meeting attendees

Attendee Name	Role	Affiliation	Current Voting	Meetings Attended / last two	3-Dec
OBSERVATIONS					
Howard Li	Chair	University of New Brunswick, Canada	Y	2	Y [^]
Paulo Gonçalves	Co-Chair	IDMEC, Portugal	Y	2	Y [^]
Veera Ragavan	Co-Chair	Monash University, Australia	N	2	Y
Alberto Olivares Alarcos	Secretary	IRI-CSIC, Spain	Y	2	Y [^]
Alaa Khamis	Member	General Motors, Canada	Y	1	Y [^]
Chris Nowak	Member	DST Group, Australia	Y	0	Y [^]
João M.L. Quintas	Member	Pedro Nunes Institute, Portugal	Y	2	Y [^]
Julia Bermejo	Member	UPM, Spain	Y	2	Y [^]
Ricardo Sanz	Member	UPM, Spain	Y	2	Y [^]
Stefano Borgo	Member	ISTC/ CNR, Italy	Y	2	N [^]
Edison Pignaton	Member	UFRGS, Brazil	N	2	Y
Elisa Tosello	Member	UNIPD, Italy	Y	2	Y [^]
Daniel Beßler	Member	University of Bremen, Germany	N	0	N
Mohammed Diab	Member	UPC, Spain	Y	1	Y [^]
Marcos E. Bareto	Member	UFBA, Brazil	N	0	N
Joanna I. Olszewska	Member	University of West Scotland, UK	Y	2	Y [^]
Amelie Gyrard	Member	Knoesis, Wright State University	Y	1	N [^]
Hiren Nakawala	Member	CMR Surgical Ltd, Cambridge, UK	Y	2	Y [^]

Minutes for the Official Meeting on December 3, 2020

Alberto Olivares-Alarcos transcribing



Abdelghani Cibani	Member	UPEC, France	N	0	Y
Maki Habib	Member	American University in Cairo	Y	1	N^
Dormant/Inactive					
Sandro R. Fiorini	Co-Chair	IBM, Brazil	N	0	
Eren Erdal Aksoy	Member	Halmstad University / Volvo	N	0	
Carlos Hernández	Member	TU Delft, Netherlands	N	0	
Joel L. Carbonera	Co-Chair	UFRGS, Brazil	N	0	
Edson Prestes	Member	UFRGS, Brazil	N	0	
Bao U. Nguyen	Member	University of Ottawa, Canada	N	0	
Kathryn Bennett	Guest	IEEE-SA	N	0	
Craig Schlenoff	Member	NIST	N	1	
Jaeho Lee	Member	University of Seoul	N	0	
JiSang Hoon	Member	KITECH, Republic of Korea	N	0	
Ki-Yeop Sung	Member	KAR, Republic of Korea	N	0	
Taeyoung Uhm	Member	KIRO, Republic of Korea	N	0	
Sebastian	Guest	IEEE-RAS	N	0	
Christy Bahn	Program Manager	IEEE-SA	N	0	
Signe Redfield	Guest	United States Naval Research Laboratory	N	0	
Ali Akbari	Guest	UPC, Spain	N	0	
Total Attendees					15
Voting Members			15		15
Voting Members Present					12
Quorum					Y

Chris could have lost his voting membership but he attended today's meeting. Veera and Edison became voting members.

Approval today's meeting agenda

Motion Proposal : Paulo

Seconded by: Veera

Accepted Agenda: Yes

Minutes for the Official Meeting on December 3, 2020

Alberto Olivares-Alarcos transcribing



Approval prior minutes

Minutes were distributed and also made available on our google drive. Thus, members could have read them, but Alberto summarized the minutes to ensure that everyone knew about them.

Motion Proposal: Ricardo

Seconded by: Paulo

Accepted Minutes: Yes

Call for Essential Patent Claims (Alberto)

The call was raised; no participant raised any concerns or any comments for consideration.

Status updates/previous action items (Howard)

- Standard's draft. We have especially worked on Section 3. After the discussion on the terminology, Paulo worked on the document and today we will discuss it. We also decided that once Section 3 was polished, Paulo would work on Section 4. During the last weeks we have also focused on Section 7, in which we have made good progress.
- 1873-2015 IEEE Map Representation Standard. Veera found and shared the IEEE it is in our shared folder.

Copyright Policy (Howard)

Done.

Howard went through some slides about the copyright policy of IEEE. This policy is relatively large so we are not going to include all the material here, but two key points must be kept in mind:

- Anything (verbal or written) we discuss we need to make sure it has not copyright, if it has, we cannot discuss it during the meeting without official permission from the copyright holder.
- Whenever you bring some material to the group and it is discussed along with our meetings, you are granting the copyright of it to the IEEE. Either if you are the holder or your affiliation center is the holder. In the later case, you would need permission from your company or university. Note that when something which has copyright it is discussed during our meetings (sometimes permission would be needed),



automatically, the copyright license will be granted to the IEEE. Note that anything developed during our group work, will have a copyright license owned by IEEE once the standard gets published.

Technical discussion

Topic: Standard's draft - Current status and latest changes

Paulo has worked on the standard's draft and he has presented us the current status of the document. The section about the terminology proposed in our standard is stable, although minor changes might be done. In the future, we will work on the rest of the sections: ontological background terminology, robotics background terminology, formalization and use cases.

Mohammed has worked on the formalization, he asked us about how the formalization might be explained in our document. We agreed on including a formalization in description logic or first order logic for each term, then and a short paragraph which reads the definition in natural language, to ease the reading for people who are not familiar with the formal languages. Then, we will also add a screenshot from Protégé (if we can use it), and an annex with a table explaining DL/FOL syntax and its proper reference.

Conclusion

- Howard and others will work on the section about robotics background terminology (sensors, actuators, etc.)
- Mohammed and others will work on the formalization and the use cases
- Paulo will collect the work of the rest and will have a final version of the standard before Christmas

Next meeting's topic: nomination of presentation

- [January 8] Howard on 'Architecture and the behavior-based approach proposed by R. Brooks'.

New business/announcements/events/last thoughts

- Found Patent from Magazino (see [here](#)) - Howard is working on it
- Meetings on December 25 and 31 are cancelled
- Next official meeting - January 8

Minutes for the Official Meeting on December 3, 2020

Alberto Olivares-Alarcos transcribing



Close meeting (Howard)

Adjourned 2:30 PM UTC