**IEEE P7009 Working Group Meeting**

**Draft Agenda**

**5 June 2019, 9:00 AM – 10:00 AM (EDT)**

**Teleconference**

Minutes recorded by Edmund Kienast

1. **Call to Order**

The meeting was called to order at 9:05

No quorum achieved at the beginning of the meeting

1. **Roll call of Individuals & Declaration of Affiliation**

See appendix A

1. **Approval of Agenda**

Discussion of non-voting items only

1. **IEEE Patent Policy** ([Call for Patents](https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt))

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

1. **Secretary’s Report**

Edmund Kienast was introduced as new secretary and update will be provided at the next meeting

1. **Approval of February 19th Meeting Minutes**

Postponed to next meeting

1. **Subgroup Updates
a. Verification and Validation,** Ken Wallace

A set of 8 scenarios to help with the V&V techniques were developed. Case studies for both P7006 and P7009 incl.:

* Air France ’12 loss
* Boeing 737 Max incidents

*IEC 61508 - Functional safety of electrical/electronic/programmable electronic safety*-*related systems*is used as basis for scenarios but SW will mutate through V&V process.

Ken is contact providing access to Spreadsheets, requires licence agreement acceptance.

There is no intention to change the lifecycle definition.

The V&V document might be specific enough but no decision yet if this should become a standalone document.

**b. Definitions + Introduction,** Danit Gal

Danit provided overview from previous meeting’s discussion. Proposal to review *ISO 12207 - Systems and software engineering - Software life cycle processes* as definition safety definition in *ISO 15288 - Systems and software engineering -- System life cycle processes* covers mainly physical systems. Phil Koopman raised issue with safety definition from an ethics perspective. System safety can be defined but unsafe in general – how to protect against misuse. Ken mentioned that defenses against gaming maybe considered.

Alan pointed out that P7009 need to be applied with P7000 and its context. Maybe to add a preamble with content from *BS 8611 - Robots and robotic devices. Guide to the ethical design and application of robots and robotic systems* but that is limited to robotics.

Maybe use of the glossary? Danit to check with Ali if the glossary would deliver suitable definitions. Property of interest and environment terms were introduced to make terms more tangible. Cedric commented that environment is a very broad concept which may limit its use. Paul provided an example of the term environment used in the energy domain stating it is a property in the energy grid discussion.

Action item: Danit & Phil to discuss ethics challenge of safety requirement set.

Action item: Danit & Ali to discuss glossary and definitions relevant to P7009

1. **Comments & Suggestions from Members**

None

1. **New Business**

None

1. **Recap of Action Items**

Continue the discussion and check action items

1. **Future Working Group Meetings**

**Doodle poll will be sent out**

1. **Adjourn** 10:00AM

Appendix A

Attendees

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| First name | Last name  | Affiliation | Role | Officer |
| Raja | Chatlia | Self | V |  |
| Paul  | Found | Self | V (joint later) |  |
| Danit  | Gal | Self | V | Chair |
| Lou | Gullo | Self | V |  |
| Phil  | Koopman | Self | V |  |
| Zvikoomborero | Murahwi | Independent | V |  |
| Cedric  | Sabbah | Self | V |  |
| Ken  | Wallace | Self | V | Vice Chair |
| Alan  | Winfield | Bristol Robotics Lab |  |  |
| Edmund  | Kienast | Self | P | Secretary |
| Christy | Bahn | IEEE | S |  |

|  |  |
| --- | --- |
| Role | V = Voting member |
| P = Participant |
| S = Staff |