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**Protocol X**

**Detailed description**

Author name, Institution

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This project has received funding from the European Union’s Horizon 2020 research and innovation program under grant agreement No 779963

DOCUMENT HISTORY

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| --- |
| HISTORY OF CHANGES |
| Version | Date | Change |
| 0.1 | xx.xx.2021 | To be completed |
|  |  |  |
|  |  |  |
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# Introduction

*With all information provided, we should enable external to reproduce the testbed / the experiment.*

*Most of the suggested items here are related to the protocol excel you already filled. You could copy and paste most of it.*

*The point is to detail what requires it, and could not be done in the excel summary: testbed detailed description, experimentation software description, sensor placement, addition of illustrative images, …*

*The outline (i.e set of proposed section name and content) is not mandatory, but using at least the “Eurobench Word file flavor”, with the Eurobench banner, first page etc… would have the benefit to harmonize all documents.*

# Related scenario

|  |  |
| --- | --- |
| Item | Template designer description |
| Short name |   |
| Description |   |
| Image |   |
| Assessed System Abilities |   |

# Protocol description

## Generalities

|  |  |  |
| --- | --- | --- |
| Generalities | Item | Template designer description |
| Name |   |
| Definition |   |
| Image |   |
| Keywords |   |
| Suitable Bipedal Systems |   |
| Associated PI Algo |   |
| Estimated experimentation duration |   |

## Testbed

### Overview

|  |  |  |
| --- | --- | --- |
| Testbed | Item | Type (sensor / actuator/ combined) |
|   |   |
|   |   |
|   |   |
|   |   |
|   |   |

### Additional details

*Please provide for any item worth it, any information or link to documentation that would help the reader to understand the type of equipment, how to prepare it, …*

## Performance indicators

*For each PI, the table from the excel sheet can be reused*

|  |  |
| --- | --- |
| Item | Template designer description |
| name |   |
| Description |   |
| Unit |   |
| output\_type |   |

*Any PI computed could be detailed more, to help the user understand how to use this metric, how to compare two scores computed, how to aggregate between runs, compare between different condition settings, …. Whatever information that can help the user to analyze the obtained scores.*

## Controlled variables

*Controlled variables refer to any parameter that can be changed in between two set of repetitions, and that should be annotated to fully describe the condition of experimentation. This can be: tunning of the testbed (i.e slope angle), of the robot (i.e assistance mode level), indication to the user (i.e walking speed suggested), ….*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Controlled variables | Name | Definition | Type | Range | Unit |
|   |   |   |   |   |
|   |   |   |   |   |
|   |   |   |   |   |

## Protocol description

### Overview

|  |  |  |  |
| --- | --- | --- | --- |
| Protocol description | General description |   |   |
| Step | Description | Complementary information |
| 1 |   |   |
| 2 |   |   |
| 3 |   |   |
| 4 |   |   |
| 5 |   |   |
| 6 |   |   |
| 7 |   |   |
| 8 |   |   |
| 9 |   |   |
| 10 |   |   |

### Additional details

*Provide for each step additional information that would help the reader to understand how to reproduce the experiment, covering aspects like:*

* *Testbed configuration*
* *Sensor placement on the subject body*
* *Presence and usage of the software involved in the data capture during the experimentation*
* *Indication to the subject*
* *Item to monitor, …*
* *Link to other documentation worth reading for having a complete understanding of the protocol to follow*

## Data preparation for metric computation

*Assuming the experimentation has been conducted, and a set of data files have been collected, some additional conversion/file renaming may be needed to be compliant with the* [*Eurobench software requirements*](https://eurobench.github.io/sofware_documentation/latest/experiment_data.html#Experimental%20data)*. Please detail these operations to get information ready to be uploaded to the Eurobench server, and ready to be processed by your algorithms uploaded to these servers.*