QUAREP-LIMI WG10 - 7th meeting - 13/04/2021

Attendees (26 participants):

Thomas Guilbert, Ulrike Boehm, Peter Bajcsy, Santosh Podder, Michael Nelson, Rodrigo Bammann, Andrea Bassi, Martin Stöckl, Steve Ogg, David Grunwald, Gaby G Martins, Julia Fernandez-Rodriguez, Rich Cole, Gerhard Holst, Konstantin Birngruber, Giulia Ossato, Ciaran Butler-Hallissey, Arne Seitz, Mariana T. Carvalho, Jürgen Breitlow, Erika Wee, Fabian Jolmes, Alexia Ferrand, Roland Nitschke, Ryma Bebane, Caron Jacobs

Excused: -

Agenda:

1. Welcome new participants
2. Agreement on minutes of the last meeting and about the recording of the meeting
3. News and Slack info
4. Quick presentation of a possible weighting matrix calculation experiment and microscope type dependent (Ulrike)
5. Discussion
6. Presentation of SNR / SBR - NoiSee plugin (Alexia Loynton-Ferrand)
7. Discussion

Minutes:

1. Welcome new participants
   Mariana Carvalho

2. Agreement on minutes of the last meeting and about the recording of the meeting
   DONE

3. News and Slack info

4. Quick presentation of a possible weighting matrix calculation experiment and microscope type dependent (Ulrike)
   Slides are located on the QUAREP server

5. Discussion and questions :
   Discussions in the recording, below in the chat section and here:

   Martin asked if this solution could handle metadata ?
   UB answered that this had to be taken in account, maybe not in the calculation but maybe as an operator.

Q1: David G: Maybe do one slide with an example that shows how the w(i) works?

6. Presentation of SNR / SBR - NoiSee plugin (Alexia Loynton-Ferrand)
   The presentation will be available in the Quarep WG10 folder on bwsynch server.

7. Discussion
   NoiSee plugin seems to be very useful to follow SNR of an instrument in time but not from the image point of view. Indeed, the output score is linked to the whole system.

From both very instructive presentations, Thomas suggests setting up two kinds of score. One should be set up without any a priori knowledge of the context of the associated experiment nor instrument (score based on the unweighted parameter vector). The second one might take in account the experiment and the microscope type (score based on the weighted parameter vector).

Next meeting: April 27 at 10:30 am (ET) / 4:30 pm (CEST)
Zoom link:
https://hhmi.zoom.us/j/9220286547?pwd=OGRWNTFyWjBzMEI5QkZrWUU4TitVdz09

Content of the chat:

De moi à tout le monde: 04:39 PM

Here is the link to the minutes, please write your name:
https://docs.google.com/document/d/17wtV-RHSnbm6gGI4BNlmnZim4xDq5JDsRdTxuVdd8PM/edit

De Alexia Loynton-Ferrand à tout le monde: 04:57 PM
we can set knock-out criteria I guess as Ulrike mentioned

De Gerhard Holst (PCO AG) à tout le monde: 04:58 PM
How about parameters that are not applicable for the measurement?

De David Grunwald à tout le monde: 05:02 PM
As follow up to Gerhard: will there be a neutral element for index-values that do not apply?

De moi à tout le monde: 05:02 PM
Control is an experimental condition too in that case yes

De David Grunwald à tout le monde: 05:13 PM
@Ulrike: Maybe do one slide with an example that shows how the w(i) works?

De Ulrike Boehm à tout le monde: 05:14 PM
Good point

De Martin Stöckl à tout le monde: 05:19 PM
Just as a quick comment to controls and min-maxing the parameters. Although a neg. control can get a low number, to quote the white paper (Prereq. 3: "… should not be considered as disqualifying criteria.") that the final number has still to be interpreted in the scope of the experiment. Low numbers are fine with neg control, and even expected.

De Ulrike Boehm à tout le monde: 05:21 PM
Right - But you know / are aware of the context in which the data was taken

De Julia Fernandez-Rodriguez à tout le monde: 05:25 PM
Hi All, I will need to leave in 5 minutes! Sorry!

De David Grunwald à tout le monde: 05:28 PM
Unfortunately I do have an 11:30 EDT meeting and have to leave. This was a very helpful discussion today, thank you!

De moi à tout le monde: 05:29 PM
Thank David, and thank you Julia !

De Michael Nelson à tout le monde: 05:29 PM
And I have to get head off to the lab, thanks for the presentations!

De Andrea Bassi à tout le monde: 05:32 PM
Thank you for the presentations, I have to leave

De Caron Jacobs à tout le monde: 05:32 PM
unfortunately I have to leave now. Thanks to the two presenters!

De Fabian Jolmes à tout le monde: 05:36 PM
Thanks a lot for the very good meeting. Unfortunately I have to leave now.

De Ciaran Butler-Hallissey à tout le monde: 05:36 PM
I must also leave thank you for the meeting and presentations!

De Gerhard Holst (PCO AG) à tout le monde: 05:37 PM
Thanks a lot for the nice presentations, I have to leave now!

De Rich Cole ABRF à tout le monde: 05:37 PM
thanks everyone

De Giulia Ossato à tout le monde: 05:37 PM
I have to leave now thanks!

De Erika Wee à tout le monde: 05:38 PM
Thanks everyone!