07-09-2020, 4:30 CET

Participants

Gert-Jan Bakker, Ulrike Boehm, Frank Eismann, Orestis Faklaris, Toshihiko Fujimori, Nathalie Gaudreault, David Grunwald, Hella Hartmann, Uros Krzic, Baptiste Monterroso, Sebastian Munck, Roland Nitschke, Ute Resch-Genger, Britta Schroth-Diez, Anje Sporbert, Werner Zuschratter (present people in grey, missing people in blue)

Agenda

- 1. Introduction round
- 2. Documentation of WG2 meetings
 - a. No recording of the meetings
 - b. Upload of meeting minutes and chat content (WG2 folder on bw cloud)
 - c. Everyone got access to the bw cloud?
- 3. Establish a WG2 chair Britta Schroth-Diez, and deputy chair: Gert-Jan Bakker.
- 4. How often do we want to meet when and for how long?
 - a. Once a month
 - b. 2nd Monday in a month 5 6:30pm? -> next meeting Oct 12th
- 5. What do we want to deliver? Definition of our WG2 mission statement?
 - a. we start out from the general purpose of the device collecting the information of an image, called here "the detector"; characterize the general specs (see point
 - 6); then go from the general to the specific devices (PMTs, cameras, APDs, ...)
- 6. Which intermediate steps do we define?
 - a. Definitions of topics:
 - i. Stability (long-term / short-term)
 - ii. Linearity (range?)
 - iii. Sensitivity,
 - iv. QE (how to describe per detector type)
 - v. Noise characterization: this gives a real info only dependent on the detector
 - vi. Gain Bandwidth product: measurement speed versus noise
 - b. Which detectors do we address:
 - i. Detectors of the systems (detectors for LSMs, cameras)
 - ii. not detectors for system maintenance measurements!
 - c. Collect relevant resources in our resources folder and go through them
 - i. (eg: EMVA 1288 @ https://www.emva.org/standards-technology/emva-1288/; contact manufacturers)
 - ii. see the resource folder by Roland:
 - 1. we go through it, get overview idea; everybody does 5 (ordered alphabetically): 1-5: Gert-Jan, 6-10: Frank; 11-15: Hella, 16-20: Sebastian; 21-25: Orestis; 26-30: Anje; 31-35: Britta
 - iii. look for resources about the theory (books: https://link.springer.com/book/10.1007/978-0-387-45524-2; websites

manufacturers, e.g. Hamamatsu, B&H, PCO): Gert-Jan: will make inventory, look

- 7. Define action items in preparation of our next meeting.
 - a. contact companies: Andor (Britta), PCO (Britta), Hamamtsu (Britta), Zeiss (Frank):
 - i. how do they characterize their detectors: what are the noise sources
 - ii. ideally join us
 - b. collect, present and share how we measure linearity, stability etc in our facilities
 - c. fill in the spreadsheet/s, organized by topic (point 6) prepared by Gert-Jan; includes definitions and ways how to measure
- 8. Distribute the work.
 - a. see the names above
 - b. establish a way to communicate and share: via email; always start with Quarep_WG2 in the subject for easy sorting
- 9. Assign a time-line to the individual steps.

Action items from previous meeting

- a. collect information until next meeting
- b. set up time line for following steps in the next meeting
- 10. Miscellaneous
 - a. nothing specific

·
□ Next meeting date: Oct 12th, 5pm - 6:30PM
Meeting Notes
New action items