Minutes Friday 12-3

**Research Questions:**

Add a little section to elaborate on the research questions. Maybe we can lead with a hypothesis.

Try to avoid yes/no questions.

1. Is a finite element analysis model effective to model a flexible artificial skin and to generate a dataset for an effective offline training?

These are two different questions. The questions should be verifiable with some experiment. If there is something that cannot be answered by your own experiments there is something wrong.

Better: How can the flexible artificial skin be modelled etc etc?

Add a small paragraph under each question to explain it.

1. Is a graph or image representation more suited according to the reliability and generalization scores to represent a pattern of sensors on artificial skin?

We could try something like this. But it is not a good research question. Better: Finding out why either is better for this project and what the relation is to sensor sparsity (note from Rik: I thought we weren’t supposed to focus on that so maybe not make this into a question?)

1. Is a distribution of XXX sensors per cm2 of artificial skin sufficient to differentiate between harmful and non-dangerous touches in simulation?

Better: What density of sensors is sufficient to differentiate between harmful and supportive touches? OR to classify different types of touches

Add RQ about generating the dataset / classifying the data in the simulation.

**Calibration:**

Perhaps use a cylinder-like object for localisation of the sensors, to find their location.

**Planning:**

Looks good, assign people to each task to make it even better.

**Risk analysis/ contingency plans:**

Typical way how this is normally done: Table format -> Short description of risk, risk assessment (likelihood/severity) followed by the contingency plan.

Structure it (subdivide risks in management, technical implementation, etc.) Even more precise if you can assign a risk to a specific task. Also, categorise risk and impact (high, medium, low).

**Misc:**

No cuts

Pain thresholds -> There’s papers on pressure levels.

There was a master student who did work on **neural networks that process point clouds**.

Hand in the plan by: Wednesday night / Thursday morning.

**Group meeting after:**

Simone’s comment: We might want to plan more time for creating the dataset.

**RQ**’s need to be restructured totally -> **Simone & Abel**

**Risk & contingency** reform -> **Julia & Guillaume & Diego**

**Proof reading & Grammar** -> **Rik**