

Thursday, November 2, 2023 at 11:03:00 Greenwich Mean Time

Subject: RE: Tuesday's meeting notes
Date: Thursday, 19 October 2023 at 15:38:34 British Summer Time
From: John Lawson
To: Natalie Ko-Ferrigno (mkf1g21)
Attachments: image002.png, image003.png

Hi Natalie,

Following up from our meeting today, I have

- Made you an account on my NAS (see separate email)
- Placed data from the testing of Raspi Cameras / GSVitec LED arrays in your home folder on the NAS
- Updated the gigatrack repository with latest changes
- Placed point cloud data from JHU turbulence database in your home folder, so you can begin to create some synthetic images with gigatrack

All the best,
John

From: Natalie Ko-Ferrigno (mkf1g21) <mkf1g21@soton.ac.uk>
Sent: 19 October 2023 10:26
To: John Lawson <J.M.Lawson@soton.ac.uk>
Subject: Tuesday's meeting notes

meeting 17.10.23

1 #IP

2

3 prep work

4 "How many ghost particles are likely to be made from cross-contamination in TE-PTV?"

5 what should i include in the presentation

6

7 in meeting

8 know your audience

9 melike has mechanical engineering degree

10 only really need one pitch

11

12 working title - keywords - background - aims and objectives - gantt chart - training needs analysis

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14 workshop inductions, lab inductions

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16 who to talk to about matlab

17 probably just go online

18 linkedin

19 just the same way as everything else with coding

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21 how to run the matlab code

22 will have to talk about it

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24 one function to set a bunch of particles and make images

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26 two function to analyse the images, low density and high density

27 some stuff for velocity distributions etc|

28 probably write my own analysis

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30 training need: the codebase but do some more matlab first

31 in person going over the code with supervisor

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title

proposed one too long

find a thing for the cross conton

"effects of cross contamination in colour pty"

aims can then be stuff like "effecets on the velocity measurement stuff"

objectives "evauluate the ..."

aims "figure out the effects of real expeimental hardware"

reality informed" simulation of the setup

objectives

add effects ot PTV code to simulate PTV cross contamination

experimental component

get some cameras set up in lab

generate particle images

see how well demultiplexing works

get camera geometric calibration working

have to do on a per colour thing for chromatic abberation

apply the correction to low-density particle stuff, try and reconstruct things

shake the box

find what the particles will look like when its not in the focal plane

maybe just keep it to the low density stuff

overall structure

spend time getting code right to simulate everything

use experimental data as more of a test of what i've done

send notes as a screenshot

for next time

start on the interim project review

layman's summary

gantt chart

method statements