DEDALE Final Telecon

September 6th 2018

Agenda

1. Review outstanding action items
2. Reviews status of M32 deliverables
3. Reviews status of M32 milestones
4. Review status of publications
5. Plans for final project review
6. AOB

Participants

1. Jean-Luc Starck
2. Samuel Farrens
3. Konstantinos Themelis
4. Greg Tsagkatakis
5. Arnaud Woiselle
6. Bruno Moraes
7. Rachel Picot
8. Felix Voigtlaender
9. Florent Sureau
10. Martin Genzel
11. Ron Levie
12. Filipe Abdalla

Action Items

Status of Outstanding Action Items

1. Action on **All WP Leads**: start putting work into deliverable template format and contact Sam for help/feedback. **DONE**
2. **Sam**: Fix date for September telecon. Fixed on 06/09/18. **DONE**
3. **Niall**: Circulate Overleaf draft of D5.4. **DONE**
4. **Niall**: Add comment on peak statistics in the reporting document. (and other papers) **DONE**
5. **Kostas**: Update D5.4 with Eusipco paper content. **DONE**
6. **Arnaud**: Create Overleaf documents for D6.1 and D6.2. **DONE**
7. **Martin**: Check conferences/workshops organised by Gita for D7.6. **DONE**
8. **Arnaud**: Send open data details for D7.5.
9. **Bruno**: Send open data details for D7.5.
10. **Florent**: Check with Arnau if we can use his results for D5.3. **DONE**
11. **Filipe**: Check Arnau's paper for links to 5.3. **DONE**
12. **Niall**: Provide link to DES repo for mass maps. **DONE**
13. Actions on **all WP managers** on the reporting document
    a. Section 2.1: DEDALE TEAM: Update names and contract duration.
    b. Section 2.6: Check student exchanges
    c. Check and update their respective WP. No development plan anymore or sentences such as « we will », make sure it is the final version.
    d. Select one highlight for the WP.
    e. Send an email to the P.I. to inform these actions are closed.
14. Action on **Florent**: D4.1 is empty in the reporting document. Optimization methods for non-linear learning problems. **DONE**
15. Action on **Fil**: Task 5.3 is empty in the reporting document: Understanding the relationship between galaxy shapes, spectra and their measurements
16. Action on **Greg&Nancy**: Update the First Annual Review discussion in the reporting Document. **DONE**
17. Action on **Arnaud**: Described the work which has been done for the two tasks.
18. Action on **Arnaud**: send an email to jean-luc relative to the annotated data. **DONE**
19. **Bruno**: To update reporting document concerning task 5.1.
20. **Sam**: Get Wasserstein distance code from Morgan for Greg. **DONE**
21. Actions on **everybody**:
    a. Update publications section (with DOI).
    b. Make sure your work in included in the final report, and contact WP manager if if not the case.
    c. conference sections, invited talks, proceedings, etc

New Action Items

1. Actions on **all WP managers** on the reporting document:

a. Section 2.1: DEDALE TEAM: Update names and contract duration.
   b. Section 2.6: Check student exchanges
   c. Check and update their respective WP. No development plan anymore or sentences such as « we will », make sure it is the final version.
   d. Select one highlight for the WP.
   e. Send an email to the JL+Sam to inform these actions are closed and which highlight has been selected.
2. **Nancy** -> WP 4 - Task 4.3, A link to a DOI to the arxiv preprint is missing.
3. **Florent** -> Just before task 2.2, you need to add the new paper.
4. **Florent** -> Update Task 3.2
5. **Florent** -> Update Task 3.3
6. **Greg** -> Check what is written in Section 3 on WP2-Task 2.3 and WP3-Task 3.1, and if it still valid.
   a. The development plan should be removed and replaced by what has been done.
7. **Joana** -> check section 6 on WP5 - Task 5.1
   a. The section that clearly needs to be updated is indicated in bold text.
   b. Please update this section for photo-z
8. **Bruno** -> check section 6 on WP5 - Task 5.1
   a. The section that clearly needs to be updated is indicated in bold text.
   b. Update this section for spectro-z
   c. Add results from paper and paper ref information
9. **Filipe** -> Fill up section 6 on WP5 - Task 5.3 which is empty.
10. **Arnaud,Kostas,Rachel** -> Section 7 on WP6.
11. **Filipe** -> Add missing UCL publications.
12. **Bruno** -> Send open data details to Sam by 13/09/18.
13. **Arnaud** -> Send open data details to Sam by 13/09/18.
14. **All institute leads** -> notify Sam and Jean-Luc of the members from your institute that will be present for the final project review.

Minutes

Status of Deliverables

D1.4 Annual Report RP2

This deliverable is simply the contents of the reporting document. Some outstanding issues remain as reflected in the action items above. In order to homogenise and clean this document before submitting, all content must be finalised by the 20th of September. Note that only work included in this document will be formally reported.

D5.3: Large scale data mining on EUCLID astrophysical data

A 34 page draft is available on Overleaf. Sections 1-Introduction, 2-Method, 3-Data, 5-Distributed Implementation have been checked and are essentially complete. Sections 4-Results and 6-Conclusion need to be finished. Work should be finished by the end of next week and the document should be ready for the 20th of September.

D5.4: Evaluation/validation of the mass mapping algorithms

A 102 page draft is available on Overleaf and is essentially complete. Some references need to be added and some minor additions to the conclusion. This document should be ready to submit by early next week.

D6.1: Applications/validation in restoration for remote sensing

A 20 page draft is available on Overleaf. Progress has been made on sections 2-Dictionary Learning for Image Restoration, 3-Deep Learning for Image Restoration, 5-Network Compression and Implementability and 7-Conclusions. Offline work by Kostas needs to be added. This document should be finalised by the 20th of September.

D6.2: Applications/validation in scene analysis for remote sensing

A 18 page draft is available on Overleaf. Progress has been made on sections 1-Index, 3-Semantic Segmentation for Scene Analysis, 4-Dataset and 5-Applications. Sections 2-Introduction, 6-Data and Codes and 7-Conclusions and Perspectives need to be added. This document should be finalised by the 20th of September.

D7.5: Data Management plan (final)

A 11 page draft is available on Overleaf. This document is waiting on input from UCL and Safran regarding open data, which should be provided by the 13th of September. The CEA data has not changed. The wording of the Interim document has been updated to reflect the past tense of the task objectives. References to metadata will be removed.

D7.6: Dissemination plan (final)

A 16 page draft is available on Overleaf. This document has been finalised. Additional publications and/or conference papers can be included if they are added to the reporting document before the 20th of September.

Status of Milestones

MS1 DEDALE Toolbox

This essentially corresponds to the contents of the DEDALE GitHub repository (https://github.com/dedale-fet). All public DEDALE software should be included in this toolbox. The structure and format of this need to be discussed.

MS6 Application to remote sensing

Any piece of software used within the context of WP6 can be used for this milestone. Ideally this would correspond to the work being highlighted during the final review.

Status of Publications

Lead UCL (Niall): DES mass mapping UCL-CEA

Status: Paper submitted and accepted
Journal: MNRAS

Lead CEA (Joana) Spectroscopic redshift estimation CEA-UCL astrophysical

Status: All data and results are available, some interpretation and proofreading still needed.
Estimated Submission: Early next week
Journal: A&A

Lead UCL (Bruno): Spectroscopic redshift estimation comparison UCL-CEA-FORTH

Status: Postponed, will not be submitted before the end of the project.

Lead TUB (Felix): Shearlet and DL denoising on the sphere TUB-CEA A&A

Status: Submitted
Journal: A&A

Lead FORTH (Nancy) Distributed Learning Architecture FORTH-CEA-Safran IEEE

Status: Almost complete.
Estimated Submission: Before the end of September
Journal: IEEE Computational Intelligence

Lead FORTH (Manthos) Convolutional neural network for redshift estimation

Status: Submitted, waiting for reviewer feedback.
Journal: IEEE

Plans for Project Review

The final project review will take place at CEA-Saclay on the 14th of November. A proposal for the review agenda will be made by SF and JLS, which will be submitted to the project officer. Once this has been accepted, the agenda will be made available on the DEDALE website. On the 13th of November we will have a preparation day to go through each of the presentations and sort out any remaining issues.

The current plan is to prepare two-part presentations for the majority of the work packages. The first half will be a general overview of the WP objectives and accomplishments. This should cover all WP activities with minimal technical detail. The second half of the presentation will be a more in-depth description of one highlight activity from the WP presented by someone involved in the work.

The proposed WP speakers are:

1. WP1
   a. Overview: Jean-Luc
2. WP2
   a. Overview: Gita
   b. Highlight: Florent
3. WP3
   a. Overview: Florent
   b. Highlight: Konstantina
4. WP4
   a. Overview: Panos/Greg
   b. Highlight: Nancy
5. WP5
   a. Overview: Filipe
   b. Highlight: Niall
6. WP6
   a. Overview: Arnaud
   b. Highlight: Rachel
7. WP7
   a. Overview: Sam