ML-BLUES: MULTILEVEL BEST LINEAR UNBIASED ESTIMATORS FOR SENSITIVITY ANALYSIS AND RELIABILITY ASSESSMENT FWO DMP (Flemish Standard DMP)

1. Research Data Summary

List and describe all datasets or research materials that you plan to generate/collect or reuse during your research project. For each dataset or data type (observational, experimental etc.), provide a short name & description (sufficient for yourself to know what data it is about), indicate whether the data are newly generated/collected or reused, digital or physical, also indicate the type of the data (the kind of content), its technical format (file extension), and an estimate of the upper limit of the volume of the data.

				Only for digital data	Only for digital data	Only for digital data	Only for physical data
Dataset Name	Description	New or reused	Digital or Physical	Digital Data Type	Digital Data format	Digital data volume (MB/GB/TB)	Physical volume
		Please choose from the following options: Generate new data Reuse existing data	Please choose from the following options: Digital Physical	Please choose from the following options: Observational Experimental Compiled/aggregated data Simulation data Software Other	Please choose from the following options: • .por, .xml, .tab, .cvs,.pdf, .txt, .rtf, .dwg, .gml, • NA	Please choose from the following options: • <100MB • <1GB • <100GB • <1TB • <5TB • <10TB • <50TB • >50TB • NA	
source_code_1	Julia source files implementing my new UQ methods	Generate new data	Digital	Software	.ji	<100MB	
source_code_2	new/modified Python files linking my new software to existing simulation codes for both applications	Generate new data	Digital	Software	.jl	<100MB	
sim_data	output files from numerical simulations with the application codes	Generate new data	Digital	Software	.jl <5TB		

If you reuse existing data, please specify the source, preferably by using a persistent identifier (e.g. DOI, Handle, URL etc.) per dataset or data type:

N/A

Are there any ethical issues concerning the creation and/or use of the data (e.g. experiments on humans or animals, dual use)? Describe these issues in the comment section. Please refer to specific datasets or data types when appropriate.
• No
Will you process personal data? If so, briefly describe the kind of personal data you will use in the comment section. Please refer to specific datasets or data types when appropriate.
• No
Does your work have potential for commercial valorization (e.g. tech transfer, for example spin-offs, commercial exploitation,)? If so, please comment per dataset or data type where appropriate.
• No
Do existing 3rd party agreements restrict exploitation or dissemination of the data you (re)use (e.g. Material/Data transfer agreements/ research collaboration agreements)? If so, please explain in the comment section to what data they relate and what restrictions are in place.
• No
Are there any other legal issues, such as intellectual property rights and ownership, to be managed related to the data you (re)use? If so, please explain in the comment section to what data they relate and which restrictions will be asserted.
• No
2. Documentation and Metadata
Clearly describe what approach will be followed to capture the accompanying information necessary to keep data understandable and usable, for yourself and others, now and in the future (e.g., in terms of documentation levels and types required, procedures used, Electronic Lab Notebooks, README.txt files, Codebook.tsv etc. where this information is recorded).
README.md files
Will a metadata standard be used to make it easier to find and reuse the data? If so, please specify (where appropriate per dataset or data type) which metadata standard will be used. If not, please specify (where appropriate per dataset or data type) which metadata will be created to make the data easier to find and reuse.
• Yes

3. Data storage & back-up during the research project

Where will the data be stored?

SCM repository service of the Department of Computer Science
KU Leuven Nextcloud

How will the data be backed up?

Backup system (tivoli) of the Department of Computer Science

Is there currently sufficient storage & backup capacity during the project? If yes, specify concisely. If no or insufficient storage or backup capacities are available, then explain how this will be taken care of.

Yes

How will you ensure that the data are securely stored and not accessed or modified by unauthorized persons?

Data is stored on hard drives in the Department of Computer Science server room (badge access). Digital access is password protected.

What are the expected costs for data storage and backup during the research project? How will these costs be covered?

€ 344,80 € for the first year, thereafter € 274,80 € / year covered from bench fee

4. Data preservation after the end of the research project

Which data will be retained for at least five years (or longer, in agreement with other retention policies that are applicable) after the end of the project? In case some data cannot be preserved, clearly state the reasons for this (e.g. legal or contractual restrictions, storage/budget issues, institutional policies...).

all data

Where will these data be archived (stored and curated for the long-term)?

Storage system of the Department of Computer Science

What are the expected costs for data preservation during the expected retention period? How will these costs be covered?

N/A

5. Data sharing and reuse

Will the data (or part of the data) be made available for reuse after/during the project? In the comment section please explain per dataset or data type which data will be made available.

- $\bullet~$ Yes, in a restricted access repository (after approval, institutional access only, $\ldots)$
- · Yes, in an Open Access repository

source_code: Yes, in an Open Access repository sim_data: Yes, in a restricted access repository (after approval, institutional access only,)
If access is restricted, please specify who will be able to access the data and under what conditions.
N/A
Are there any factors that restrict or prevent the sharing of (some of) the data (e.g. as defined in an agreement with a 3rd party, legal restrictions)? Please explain in the comment section per dataset or data type where appropriate.
• No
Where will the data be made available? If already known, please provide a repository per dataset or data type.
Github, SCM server of the Department of Computer Science
When will the data be made available?
upon publication of research results
Which data usage licenses are you going to provide? If none, please explain why.
CC0
Do you intend to add a PID/DOI/accession number to your dataset(s)? If already available, you have the option to provide it in the comment section.
• No
What are the expected costs for data sharing? How will these costs be covered?
N/A
6. Responsibilities
Who will manage data documentation and metadata during the research project?
Fellow
Who will manage data storage and backup during the research project?
Fellow
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Who will manage data preservation and sharing?
Fellow

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