

# ECCV 2022 Seasons in Drift Challenge

## *Fact sheet*

This is the fact sheet’s template for the ECCV 2022 Seasons in Drift Challenge. Please fill out the following sections carefully in a scientific writing style. Then, send the compressed project (in .zip format), i.e., the generated PDF, .tex, .bib and any additional files, following the schedule and instructions (“Wining solutions (post-challenge)”, Fact Sheets) provided in the Challenge webpage.

### I. TEAM DETAILS

- Team leader name:
- Username on Codalab:
- Team leader affiliation:
- Team leader email:
- Name of other team members (and affiliation):
- Team website URL (if any):
- Competition track (mark with X one single option)<sup>1</sup>:
  - ☐ Track 1: Detection at **day** level.
  - ☐ Track 2: Detection at **week** level.
  - ☐ Track 3: Detection at **month** level.

### II. CONTRIBUTION DETAILS

#### A. Title of the contribution

Provide a brief summary of the method and contributions.

#### B. Representative image / workflow diagram of the method

An image (or several images) to support method description to better understand the approach and model pipeline. You can refer to these images in the method description part.

#### C. Detailed method description

Provide a technical and detailed description of the method and contributions. The explanations must be self-contained and one must be able to reproduce the approach by reading this section. You can explain and justify the approach by any means, e.g., citations [1], equations, tables, algorithms, platforms and code libraries utilised, etc. We expect a detailed explanation of the architecture, preprocessing/postprocessing steps, loss function, training/inference details, and hyperparameters.

#### D. Challenge results

Fill Table I with your obtained results, shown in the leaderboard of the challenge.

<sup>1</sup>If you participated in more than one competition track, you need to share with the organizers one fact sheet per track.

#### E. Final remarks

Please identify the pros and cons (if any) of the proposed approach.

### III. ADDITIONAL METHOD DETAILS

Please, reply if your challenge entry considered (or not) the following strategies and provide a brief explanation. For each question, mark with X one single option.

- **For the competition track associated with this fact sheet, you confirm that you have trained your model on the predefined and single:** ☐ Day, ☐ Week, ☐ Month - as instructed in the challenge webpage.
- **Did you use any pre-trained model:** ☐ Yes, ☐ No. If yes, please detail (e.g., model architecture, training strategy, train data, etc.).
- **Did you use external data?** ☐ Yes, ☐ No. If yes, please detail:
- **Did you perform any data augmentation?** ☐ Yes, ☐ No. If yes, please detail:
- **At the final phase, did you use the provided validation set as part of your training set?** ☐ Yes, ☐ No. If yes, please detail:
- **Did you use any regularization strategies/terms?** ☐ Yes, ☐ No. If yes, please detail:
- **Did you use handcrafted features?** ☐ Yes, ☐ No. If yes, please detail:
- **Did you use any spatio-temporal feature extraction strategy?** ☐ Yes, ☐ No. If yes, please detail:
- **Did you perform object tracking?** ☐ Yes, ☐ No. If yes, please detail:
- **Did you leverage timestamp information?** ☐ Yes, ☐ No

TABLE I  
RESULTS FROM LEADERBOARD (TEST PHASE) OBTAINED BY THE PROPOSED APPROACH.

Rank position	$mAP_w$	$mAP$	Jan	Mar	Abr	May	Jun	Jul	Aug	Sep
0	0.000000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000

If yes, please detail:

- **Did you use empty frames present in the dataset?**

☐ Yes, ☐ No

If yes, please detail:

- **Did you construct any type of prior to condition for visual variety?**

☐ Yes, ☐ No

If yes, please detail:

#### IV. CODE REPOSITORY

Link to a code repository with complete and detailed instructions so that the results obtained on Codalab can be reproduced locally. This includes a list of requirements, pre-trained models, and so on. Note, training code with instructions is also required. This is recommended for all participants and mandatory for winners to claim their prize. **Organizers strongly encourage the use of docker to facilitate reproducibility.**

**Code repository:** [http://your\\_link\\_here](http://your_link_here)

#### REFERENCES

- [1] I. Nikolov, M. Philipsen, J. Liu, J. Dueholm, A. Johansen, K. Nasrollahi, and T. Moeslund, "Seasons in drift: A long-term thermal imaging dataset for studying concept drift," in *Thirty-fifth Conference on Neural Information Processing Systems (NeurIPS)*, 2021.