



## ChaLearn Contest Rules for ChaLearn Looking at People

# ECCV'2022 Seasons in Drift Challenge

### Official rules

#### Common terms used in these rules:

These are the official rules that govern how the *ECCV'2022 Seasons in Drift Challenge* contest promotion will operate. This promotion will be simply referred to as the contest or the challenge throughout the rest of these rules and may be abbreviated on our website, in our documentation, and other publications as ChaLearnLAP Seasons in Drift Challenge 2022.

In these rules, organizers, we, our, and us refer to CHALEARN and "participant", "you," and "yourself" refer to an eligible contest participant.

#### 1. Contest description

This is a skill-based contest and chance plays no part in the determination of the winner(s). There are three (3) tracks associated to this contest as described below:

- **Track 1: Detection at day level.** Participants will need to submit their predictions by training their models on a single and predefined day data (i.e., 13th of February 2020). Then, concept drift across time will be evaluated.
- **Track 2: Detection at week level.** Participants will need to submit their predictions by training their models on a single and predefined week data (i.e., 13th – 20th of February 2020). Then, concept drift across time will be evaluated.

- **Track 3: Detection at month level.** Participants will need to submit their predictions by training their models on a single and predefined month data (i.e., entire month of February 2020). Then, concept drift across time will be evaluated.

**Evaluation:** We follow the COCO evaluation scheme for mAP (<https://cocodataset.org/#detection-eval>) on all tracks. The primary metric is, mAP across 10 different IoU thresholds (ranging from 0.5 to .95 at 0.05 increments). This is calculated for each month in the validation/test set and the model is then ranked based on a weighted average of each month (more distant months having a larger weight as more concept drift is present). The evaluation is performed leveraging the official COCO evaluation tools.

## 2. Tentative Contest Schedule

The registered participants will be notified by email of any change in the following tentative schedule (please, check <https://chalearnlap.cvc.uab.cat/challenge/51/schedule/> for updated information):

- **Start of the competition (April 25, 2022):** Release of training (with ground truth) and validation data (without ground truth). Time zone: Codalab will use UTC for all competition tracks/phases.
- **Release of test data (without ground truth) and validation labels. (June 15, 2022):** At this stage, participants can download the test data and validation labels, both encrypted. The encryption key will be released in a few days ahead. With the encryption-decryption strategy, we ensure participants with lower speed Internet connection are at no disadvantage.
- **Test phase begins (June 17, 2022):** Release of test data (and validation labels) **decryption keys**. Participants start predicting the results on the test data. At this stage, they can retrain (or fine-tune) their models with the additional validation data/labels.
- **End of the competition (June 24, 2021):** Deadline for submitting the final predictions over the test (evaluation) data.
- **Deadline for code submission (June 26, 2022):** After the end of the test phase, participants are required to share with the organizers the source code used to generate the submitted results. To enforce reproducibility of results, participants are requested to share their source code within a docker container or python virtual environment, with detailed and complete instructions and requirements to run the code. Only solutions that pass the code verification stage are eligible to be announced as top-winning solutions and to compete for any prize that may be offered.
- **Submission of fact sheets (June 26, 2022):** Deadline for submitting the fact sheets using a template provided by the organizers. The fact sheets need to provide detailed and technical information about the developed approach.
- **Release of results (July 1st, 2022):** Release of the top-winning solutions after the “code verification” stage.

- **Optionally:** All participants are invited to submit their approach to the associated [Real-World Surveillance: Applications and Challenges Workshop \(RWS @ ECCV2022\)](#), independently of their rank position.
  - **Paper submission deadline (July 1, 2022):** Paper submission deadline for submitting their work.
  - **Paper submission for challenge participants (July 5th, 2022):** Paper submission deadline for submitting their work.
  - **Notification to authors (July 10, 2022):** Notification of acceptance/rejection to authors of the submitted papers.
  - **Camera-ready paper submission deadline (July 15, 2022).**

### 3. Eligibility

You are eligible to enter this contest if you meet the following requirements:

- You are an individual or a team of people desiring to contribute to the tasks of the challenge and accepting to follow its rules; you are employed by a research laboratory, startup or other legal entity having a scientific research department or activity; and
- You are NOT a resident of any country constrained by US export regulations included in the OFAC sanction page <http://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx>. Therefore residents of these countries/ regions are not eligible to participate; and
- You are not an employee of CHALEARN or any of the sponsoring or co-organizing entities; and
- You are not involved in any part of the administration and execution of this contest; and
- You are not an immediate family (parent, sibling, spouse, or child) or household member of an employee of CHALEARN or a person involved in any part of the administration and execution of this contest.

This contest is void within the geographic area identified above and wherever else prohibited by law. If you choose to submit an entry, but are not qualified to enter the contest, this entry is voluntary, and any entry you submit is governed by the remainder of these contest rules; CHALEARN reserves the right to evaluate it for scientific purposes. If you are not qualified to submit a contest entry and still choose to submit one, under no circumstances will such entries qualify for sponsored prizes.

### 4. Entry

To be eligible for judging, an entry must meet the following content/technical requirements:

- **Entry contents:** During the period of the computational competition, participants are required to submit prediction results. At a later stage, defined in the competition schedule, they are required to share their code with complete instructions to enable reproducibility of the results. To be announced as top-winning solution as well as to be

eligible for prizes, the top ranking participants are required to publicly release their code under a license of their choice, taken among popular OSI-approved licenses (<http://opensource.org/licenses>) and make their code accessible on-line for a period of not less than three years following the end of the challenge (only required for top three ranked participants of the competition). To be part of the final ranking the participants will be asked to fill out a survey (fact sheet) where detailed and technical information about the developed approach is provided, in addition to a description of the subsets of data used for training, validation, and test. The top ranking participants and the rest of participants are also invited (not mandatory) to submit a paper for the proceedings of the associated [Real-World Surveillance: Applications and Challenges Workshop \(RWS @ ECCV2022\)](#), following the paper format and schedule provided by the organizers. To be eligible for prizes, the top ranked participants' scores (i.e., associated to the evaluation metric adopted for each competition track, as defined before) must improve the baseline performance provided by the challenge organizers. Note that the organizers are allowed to update the baseline results at any time during the challenge period.

- Prerequisite: There is no prerequisite to participate, including no requirement to have participated in previous challenges.
- Use of data provided: Images are provided by Aalborg University in collaboration with and annotations are provided by Milestone Research Programme at Aalborg University. Ground truth labels and images are both distributed under the creative commons CC-BY-SA-3.0. Participants may use the data beyond the scope of this challenge.
  - **Test data:** The organizers will use test data to perform the final evaluation, hence the participants final entry will be based on test data.
  - **Training and validation data:** The contest organizers will make available to the participants a training dataset with truth labels, and a validation set with no truth labels. Each competition track will have its associated training, validation and test data. The validation data will be used by the participants for practice purposes to validate their systems. It will be similar in composition to the test set (validation labels may be provided in the final test stage of the challenge). Participants may use other third-party datasets to train their solutions, in addition to the training set provided. Post-challenge analyses: The organizers may also perform additional post-challenge analyses using extra data, but the results will not affect the ranking of the challenge performed with the test data.
- Submission: The entries of the participants will be submitted on-line via the Codalab web platform. During the development period, participants will receive immediate feedback on validation data released for practice purposes. During the test period, the participants will receive immediate feedback on test data. Note that the performances on test data will be verified after the end of the challenge during a code verification stage. Moreover, the maximum number of submissions per participant at the test stage will be set to 3. The maximum number of submissions per participant at the test stage can be increased by the organizers at any time. Participants are not allowed to create multiple accounts to make additional submissions. The organizers may disqualify suspicious submissions that

do not follow this rule. Only submissions that pass the code verification will be considered to be in the final list of winning methods.

- Original work, permissions: In addition, by submitting your entries into this contest you confirm that, to the best of your knowledge:
  - Your entry is your own original work; and
  - Your entry only includes material that you own, or that you have permission from the copyright / trademark owner to use.

## **5. Potential use of entry**

Other than what is set forth below, we are not claiming any ownership rights to your entry. However, by submitting your entry, you:

- Are granting us an irrevocable, worldwide right and license, in exchange for your opportunity to participate in the contest and potential prize awards, for the duration of the protection of the copyrights to:
  - Use, review, assess, test and otherwise analyze results submitted or produced by your code and other material submitted by you in connection with this contest and any future research or contests sponsored by; and
  - Feature your entry and all its content in connection with the promotion of this contest in all media (now known or later developed);
- Agree to sign any necessary documentation that may be required for us and our designees to make use of the rights you granted above;
- Understand that we cannot control the incoming information you will disclose to our representatives or our co-sponsors representatives in the course of entering, or what our representatives will remember about your entry. You also understand that we will not restrict work assignments of representatives or our co-sponsors representatives who have had access to your entry. By entering this contest, you agree that use of information in our representatives or our co-sponsors representatives unaided memories in the development or deployment of our products or services does not create liability for us under this agreement or copyright or trade secret law;
- Understand that you will not receive any compensation or credit for use of your entry, other than what is described in these official rules.

If you do not want to grant us these rights to your entry, please do not enter this contest.

## **6. Submission of entries**

- Follow the instructions on the Codalab website to submit entries.
- The participants will be registered as mutually exclusive teams. Each team may submit one single final entry. We are not responsible for entries that we do not receive for any reason, or for entries that we receive but are not functioning properly. In the case a participant submits multiple entries, the organizers (and Codalab web page) will consider the last valid one as final (with respect to each phase of the challenge), which will be

used to rank the participant. It is her/his responsibility to monitor the results (or rank position) on the leaderboard shown on Codalab web page and resubmit the entry that gives better results, if needed.

- The participants must follow the instructions. We will automatically disqualify incomplete or invalid entries.

## 7. Judging the entries

The competition winners will be determined based upon the prediction score on test data and code verification. Furthermore, the board of CHALEARN will select a panel of judges to judge the entries; all judges will be forbidden to enter the contest and will be experts in causality, statistics, machine learning, computer vision, or a related field, or experts in challenge organization. A list of the judges will be made available upon request. The judges will review all eligible entries received and select up to three winners for each track (i.e., in case of multiple tracks). The judges will verify that the winners complied with the rules, including that they documented their method by filling out a fact sheet.

The decisions of these judges are final and binding. The distribution of prizes according to the decisions made by the judges will be made within three (3) months after completion of the last round of the contest. If we do not receive a sufficient number of entries meeting the entry requirements, we may, at our discretion based on the above criteria, not award any or all of the contest prizes below. In the event of a tie between any eligible entries, the tie will be broken by giving preference to the earliest submission, using the timestamp of the submission platform.

## 8. Prizes and awards

- ChaLearn and ChaLearn LAP are the financial sponsors of this contest. There may be economic incentive prizes and registration grants for the winners (based on availability) to boost contest participation; these prizes will not require participants to enter into an IP agreement with any of the sponsors, to disclose algorithms, or to deliver source code to them.
- Incentive Prizes\*: Award certificates and awards (based on availability) will be attributed to the top 3 ranked participants (passing the code verification stage) of each track. In addition, top ranked participants will be invited to submit a paper to the associated [Real-World Surveillance: Applications and Challenges Workshop \(RWS @ ECCV2022\)](#).

(\*) The amount of awards will be based on need and availability. The award may be used for one of the workshops organized in conjunction with the challenge. The award money will be granted in reimbursement of expenses including airfare, ground transportation, hotel, or workshop registration. Reimbursement is conditioned on (i) attending the workshop, (ii) making an oral presentation of the methods used in the challenge, and (iii)

presenting original receipts and boarding passes.

- Awards: Other awards may be distributed to deserving participants based upon need and availability.
- If for any reason the advertised prize is unavailable, unless to do so would be prohibited by law, we reserve the right to substitute a prize(s) of equal or greater value, as permitted. We will only award one prize per team. If you are selected as a potential winner of this contest:
  - If your prize is not in cash, you may not exchange your prize for cash; you may not exchange any prize for other merchandise or services.
  - You may not designate someone else as the winner. If you are unable or unwilling to accept your prize, we will award it to an alternate potential winner.
  - If you accept a prize, you will be solely responsible for all applicable taxes related to accepting the prize.
  - If you are a minor in your place of residence, we may award the prize to your parent/legal guardian on your behalf and your parent/legal guardian will be designated as the winner.

## 9. Other Sponsored Events

- To stimulate participation, the organizers are making available several channels of scientific paper publication. Publishing papers is optional and will not be a condition to entering the challenge or winning prizes.
- The results of the challenge will be presented at the associated [Real-World Surveillance: Applications and Challenges Workshop \(RWS @ ECCV2022\)](#). A selection of the best workshop papers may be invited to submit extended versions of their papers for a special issue in a top tier journal. Also, the top ranked participants and/or those developing innovative solutions may be invited to write a joint paper with the organizers to be submitted to a top tier conference or journal.

The organizers may also sponsor other events to stimulate participation.

## 10. Notifications

If there is any change to data, schedule, instructions of participation, or these rules, the registered participants will be notified at the email they provided with the registration.

If you are a potential winner, we will notify you by sending a message to the e-mail address listed on your final entry within seven days following the determination of winners. If the notification that we send is returned as undeliverable, or you are otherwise unreachable for any reason, we may award the prize to an alternate winner, unless forbidden by applicable law.

Winners who have entered the contest as a team will be responsible to share any prize among their members. The prize will be delivered to the registered team leader. If this person becomes unavailable for any reason, the prize will be delivered to the authorized account holder of the e-mail address used to make the winning entry.

If you are a potential winner, we may require you to sign a declaration of eligibility, use, indemnity and liability/publicity release and applicable tax forms. If you are a potential winner and are a minor in your place of residence, and we require that your parent or legal guardian will be designated as the winner, we may require that they sign a declaration of eligibility, use, indemnity and liability/publicity release on your behalf. If you, (or your parent/legal guardian if applicable), do not sign and return these required forms within the time period listed on the winner notification message, we may disqualify you (or the designated parent/legal guardian) and select an alternate selected winner.

## **11. On-line notification**

Any changes in the rules or in the data as well as the names of confirmed winners (after contest decisions are made by the judges) will be made available online at <https://chalearnlap.cvc.uab.cat/challenge/51/description/> or <https://chalearnlap.cvc.uab.cat/>. Major changes will be also notified through the e-mail participants registered in the Challenge on Codalab platform.

## **12. Conditions**

By entering this contest you agree:

- To abide by these official rules;
- To the extent allowable under applicable law, to release and hold harmless CHALEARN and sponsors, their respective parents, subsidiaries, affiliates, employees and agents from any and all liability or any injury, loss, damage, right, claim or action of any kind arising from or in connection with this contest or any prize won save for residents of the United Kingdom, Chile, Korea, Greece, Brazil, Turkey, Hong Kong, France and Germany with respect to claims resulting from death or personal injury arising from CHALEARNs, Computer Vision Center at Autonomous University of Barcelona, University of Barcelona's negligence, for residents of the United Kingdom with respect to claims resulting from the tort of deceit or any other liabilities that may not be excluded by law, and for residents of Australia in respect of any implied condition or warranty the exclusion of which from these official rules would contravene any statute or cause any part of these official rules to be void;
- That CHALEARNs decisions will be final and binding on all matters related to this contest; and



- That, by accepting a prize, CHALEARN and competition sponsors may use your team name, your name, and your place of residence online and in print, or in any other media, in connection with this contest, without payment or compensation to you. The declaration of eligibility, use, indemnity and liability/publicity release provided to the potential winner will make reference to obtaining his/her free consent to use his/her name and place of residence. In any case, the lack of such consent does not prevent the winner from receiving the prize.
- This contest will be governed by the laws of the state of California, and you consent to the exclusive jurisdiction and venue of the courts of the state of California for any disputes arising out of this contest. For residents of Austria only: you may withdraw your submission from this contest within seven days of your entry. If you withdraw within seven days of entry, your submission will be returned to you, and we will not make any use of your submission in the future. However, you will not be eligible to win a prize. If you do not withdraw within seven days of entry, you will be bound by the provisions of these official rules. For residents of the United Kingdom only: the provisions of the contracts (rights of third parties) act 1999 will not apply to this agreement. For residents of New Zealand only: the provisions of the contracts (privity) act of 1982 will not apply to this agreement. For Quebec residents: any litigation respecting the conduct or organization of a publicity contest may be submitted to the Régie des Alcools, des Courses et des Jeux for ruling. Any litigation respecting the awarding of a prize may be submitted to the Rgie only for the purpose of helping the parties reach a settlement. For residents of Israel only: this agreement does not entitle third parties to benefits under this agreement as defined in Chapter D of the Contracts Act (General Part) 1973.
- The data are available only for research and educational purposes, within the scope of the challenge. ChaLearn and the organizers make no warranties regarding the database, including but not limited to warranties of non-infringement or fitness for a particular purpose. The copyright of the data remains the property of their respective owners. By downloading and making use of the data, you accept full responsibility for using the data. You shall defend and indemnify ChaLearn and the organizers, including their employees, Trustees, officers and agents, against any and all claims arising from your use of the data. You agree not to redistribute the data.

### **13. Unforeseen event**

If an unforeseen or unexpected event (including, but not limited to: someone cheating; a virus, Bug, or catastrophic event corrupting data or the submission platform; someone discovering a flaw in the data or modalities of the challenge) that cannot be reasonably anticipated or controlled, (also referred to as force majeure) affects the fairness and / or integrity of this contest, we reserve the right to cancel, change or suspend this contest. This right is reserved whether the event is due to human or technical error. If a solution cannot be found to restore the integrity of the contest, we reserve the right to select winners based on the criteria specified above from among all eligible entries received before we had to cancel, change or suspend the contest subject to obtaining the approval from the Régie des Alcools,

des Courses et des Jeux with respect to the province of Quebec.

Computer hacking is unlawful. If you attempt to compromise the integrity or the legitimate operation of this contest by hacking or by cheating or committing fraud in any way, we may seek damages from you to the fullest extent permitted by law. Further, we may ban you from participating in any of our future contests, so please play fairly.

#### **14. Sponsor**

ChalLearn is the sponsor of this contest,

955 Creston Road,  
Berkeley, CA 94708, USA  
events@chalearn.org

and

University of Barcelona, Computer Vision Center at Autonomous University of Barcelona, Human Pose Recovery and Behavior Analysis group, Milestone Systems, Visual Analysis & Perception Lab are the co-sponsors of this contest. Additional sponsors can be added during the competition period.

#### **15. Privacy**

During the development phase of the contest and when they submit their final entries, contest participants do not need to disclose their real identity, but must provide a valid email address where we can deliver notifications to them regarding the contest. To be eligible for prizes, however, contest participants will need to disclose their real identity to contest organizers, informing them by email of their name, professional affiliation, and address. To enter the contest, the participants will need to become users of the Codalab platform. Any profile information stored on this platform can be viewed and edited by the users. After the contest, the participants may cancel their account with the Codalab and cease to be users of that platform. All personal information will then be destroyed. The Codalab privacy policy will apply to contest information submitted by participants on the Codalab. Otherwise, CHALEARNs privacy policy will apply to this contest and to all information that we receive from your entry that we receive directly from you or which you have submitted as part of your contest entry on the Codalab. Please read the privacy policy on the contest entry page before accepting the official rules and submitting your entry. Please note that by accepting the official rules you are also accepting the terms of the CHALEARN privacy policy: <http://www.chalearn.org/privacy.html>. Note that the participants data needed to request dataset access, detailed in the Dataset License document, is considered a different set of personal data from the personal data described above, and as such it follows different rules and lawful basis of data processing. The right of information of such data is described in the

Dataset License document.

## **DISCLAIMER**

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