Table of Contents

.

Showcase of Exemplar Framings	1
Scene: GoalSize goal_ncells = [100], MAXDIM=[10]	
Scene: GoalSize goal_ncells = [300], MAXDIM=[15]	
Exemplars: GoalSize goal_ncells = [100], MAXDIM=[10]	
Exemplar: FixedFrame hg_size = [8 8]	
Exemplair i fixed fame is_bize [0 0]	-

Showcase of Exemplar Framings

In this example, we initialize some exemplars with different framing strategies. To generate the pdf, run publish('demo_framing','pdf');

Scene: GoalSize goal_ncells = [100], MAXDIM=[10]

This mode will try create a framing which is made up of a target number of cells, subject to one dimension being at most MAXDIM

```
models = load_all_models(dataset_params, cls, models_name, ...
                             efiles);
show exemplar frames(models, 5, dataset params);
snapnow;
Making directory /nfs/baikal/tmalisie/inits11//VOC2007/local//models/cow-demo_scen
.hg_size = [2 \ 10]
Localizing 1 in I=[176x500@10]
.hg_size = [7 10]
Localizing 1 in I=[375x500@10]
.hg_size = [7 10]
Localizing 1 in I=[375x500@10]
Load from a total of 3 files:
                             goalsize: Template:[7 x 10]
           Ex 000211.1 cow
                              curos=0.55 Mask: [7 x 10]
                                                          HOG features
                             goalsize: Template:[7 x 10]
           Ex 000232.1 cow
                              curos=0.55 Mask: [7 x 10]
                                                          HOG features
                             goalsize: Template:[2 x 10]
           Ex 000306.1 cow
                              curos=0.30 Mask: [2 x 10]
                                                          HOG features
```

Scene: GoalSize goal_ncells = [300], MAXDIM=[15]

Here is the above example, but allowing for a much finer scene representation

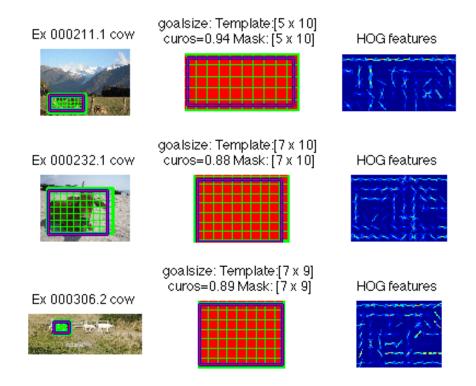
```
clear init_params;
init_params.sbin = 8;
init_params.goal_ncells = 300;
init_params.MAXDIM = 15;
init_params.init_type = 'goalsize';
init_params.init_function = @initialize_goalsize_model;
models_name = ['demo_scene_goalsize_maxdim'];
```

```
%Initialize exemplars with the exemplar stream
efiles = exemplar_initialize(dataset_params, e_scene_stream_set, ...
                               models_name, init_params);
models = load_all_models(dataset_params, cls, models_name, ...
                           efiles);
show exemplar frames(models, 5, dataset params);
snapnow;
%Delete files (only for demo)
for i = 1:length(efiles)
 delete(efiles{i});
end
Making directory /nfs/baikal/tmalisie/inits11//VOC2007/local//models/cow-demo_scen
.hg_size = [4 \ 15]
Localizing 1 in I=[176x500@10]
.hg_size = [11 15]
Localizing 1 in I=[375x500@10]
.hg\_size = [11 \ 15]
Localizing 1 in I=[375x500@10]
Load from a total of 3 files:
                           goalsize: Template:[11 x 15]
          Ex 000211.1 cow
                            curos=0.69 Mask: [11 x 15]
                                                       HOG features
                           goalsize: Template:[11 x 15]
          Ex 000232.1 cow
                            curos=0.69 Mask: [11 x 15]
                                                       HOG features
                           goalsize: Template:[4 x 15]
          Ex 000306.1 cow
                            curos=0.49 Mask: [4 x 15]
                                                       HOG features
```

Exemplars: GoalSize goal_ncells = [100], MAXDIM=[10]

Experiment repeated for exemplars

```
clear init_params;
init_params.sbin = 8;
init_params.goal_ncells = 100;
init_params.MAXDIM = 10;
init_params.init_type = 'goalsize';
init_params.init_function = @initialize_goalsize_model;
models_name = ['demo_ex_goalsize'];
%Initialize exemplars with the exemplar stream
efiles = exemplar_initialize(dataset_params, e_stream_set, ...
                              models_name, init_params);
models = load_all_models(dataset_params, cls, models_name, ...
                          efiles);
show_exemplar_frames(models, 5, dataset_params);
snapnow;
%Delete files (only for demo)
for i = 1:length(efiles)
delete(efiles{i});
end
Making directory /nfs/baikal/tmalisie/inits11//VOC2007/local//models/cow-demo_ex_g
.hg_size = [7 9]
Localizing 1 in I=[176x500@10]
.hg_size = [5 10]
Localizing 1 in I=[375x500@10]
.hg_size = [7 10]
Localizing 1 in I=[375x500@10]
Load from a total of 3 files:
. . .
```

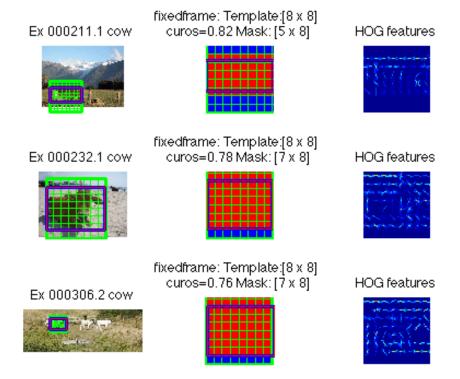


Exemplar: FixedFrame hg_size = [8 8]

Experiment for fixed-size exemplars

clear init_params;
init_params.sbin = 8;

```
init_params.hg_size = [8 8];
init_params.init_type = 'fixedframe';
init_params.init_function = @initialize_fixedframe_model;
models_name = ['demo_ex_ff'];
%Initialize exemplars with the exemplar stream
efiles = exemplar_initialize(dataset_params, e_stream_set, ...
                             models_name, init_params);
models = load_all_models(dataset_params, cls, models_name, ...
                         efiles);
show_exemplar_frames(models, 5, dataset_params);
snapnow;
%Delete files (only for demo)
for i = 1:length(efiles)
 delete(efiles{i});
end
Making directory /nfs/baikal/tmalisie/inits11//VOC2007/local//models/cow-demo_ex_f
...Load from a total of 3 files:
```



Published with MATLAB® 7.10