skfda.datasets.make_multimodal_landmarks

skfda.datasets.make_multimodal_landmarks(*n_samples: int = 15, *, n_modes: int = 1, ndim_domain: int = 1, ndim_image: int = 1, start: float = -1, stop: float = 1, std: float = 0.05, random_state=None*) [source]

Generate landmarks points.

Used by `make_multimodal_samples()` to generate the location of the landmarks.

Generates a matrix containing the landmarks or locations of the modes of the samples generates by `make_multimodal_samples()`.

If the same random state is used when generating the landmarks and multimodal samples, these will correspond to the position of the modes of the multimodal samples.

Parameters:

- **n_samples** – Total number of samples.
- **n_modes** – Number of modes of each sample.
- **ndim_domain** – Number of dimensions of the domain.
- **ndim_image** – Number of dimensions of the image
- **start** – Starting point of the samples. In multidimensional objects the starting point of the axis.
- **stop** – Ending point of the samples. In multidimensional objects the ending point of the axis.
- **std** – Standard deviation of the variation of the modes location.
- **random_state** – Random state.

Returns:

`np.ndarray` with the location of the modes, where the component (i,j,k) corresponds to the mode k of the image dimension j of the sample i.