
SoSpaCATpy

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**CHAPTER
ONE**

SOSPCATPY

Social-spatial Community Assignment Test

**CHAPTER
TWO**

EXAMPLE

to do

SOSPCAT

3.1 Submodules

3.1.1 sospcat.compare

3.1.2 sospcat.social

This module defines the methods for social community detection.

`get_groups (a_graph, method='component_infomap', return_form='membership')`

Return the grouping of the provided graph object using the specified method. The grouping is returned as a list of sets each holding all members of a group.

Parameters

- `a_graph` (`Graph`) – The graph to partition
- `method` (`str` (`default='component_infomap'`)) – String specifying which method to use. If two methods should be used one after the other they should be separated by `_`. Default: ‘component_infomap’ which will first consider all disconnected components as groups then apply infomap on all of those groups to optionally further split.
- `return_form` (`str` (`default='membership'`)) – Determines the format of how the social group structure should be returned. Options are:
 - ‘membership’: A list returning for each `index` node the group it belongs to.
 - ‘memberlists’: Dictionary with a list of members `value` for each group `key`.

Returns `members` – Depending on what was chosen for the `return_form` attribute, either the membership dict, i.e. for each node (key) the group affiliation (value), or the memberlist dict, i.e. for each group (key) a list of nodes (value) is returned.

Return type `dict`

3.1.3 sospcat.spatial

**CHAPTER
FOUR**

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