

Regularizing with Natural Graphs

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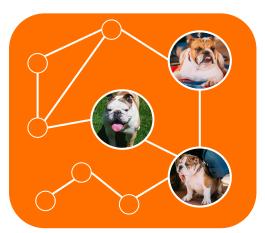




Natural graphs

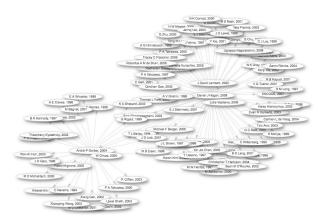
A set of data points with an inherit relationship with each other

Co-Occurrence Graph



[Source: graph concept is from Juan et al., WSDM'20. Original images are from pixabay.com]

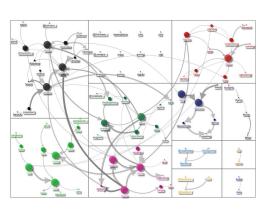
Citation Graph



[Sourc

https://commons.wikimedia.org/wiki/File:Partial_citation_graph_for_%22A_screen_for_RNA-binding_ proteins_in_yeast_indicates_dual_functions_for_many_enzymes%22_as_of_April_12,_2017.png]

Text Graph



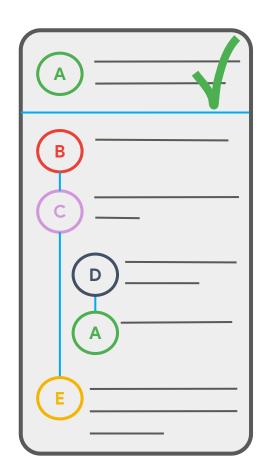
[Source: copied without modification from https://www.flickr.com/photos/marc_smith/6705382867/sizes/l/]

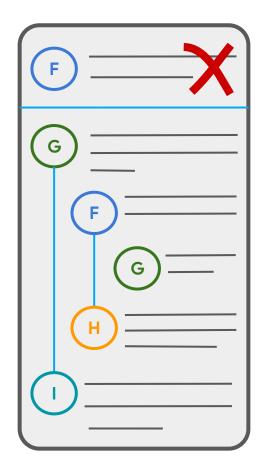


Example

Structured rumour threads with veracity labels









Example

Structured rumour threads with veracity labels



PHEME dataset for Veracity Classification

This dataset contains a collection of Twitter rumours posted during breaking news, and rumour veracities are labeled by professional journalists

<u>Derczynski et al</u> <u>Kochkina et al</u>





Colab

Graph regularization for Twitter rumour veracity classification using natural graphs