GraphFlow Documentation

Release 0.5.1

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CONTENTS

Contents:

INTRODUCTION TO GRAPHFLOW

This Python package provides numerical routines for graph flow analysis, particularly:

- PageRank

- Linear System of Resistance

- Non-linear System of Resistance

- HITS (Hyperlink-Induced Topic Search)

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Home: *Welcome to GraphFlow's documentation!*

NEWS

- 10/10/2023: *graphflow* 0.6.0 released.
- 08/18/2023: *graphflow* 0.5.1 released.
- 06/20/2023: *graphflow* 0.5.0 released.
- 10/29/2022: *graphflow* 0.4.5 released.
- 10/04/2022: *graphflow* 0.4.4 released.
- 12/31/2021: *graphflow* 0.4.3 released.
- 12/15/2021: *graphflow* 0.4.2 released.
- 04/19/2021: *graphflow* 0.4.1 released.
- 04/10/2021: *graphflow* 0.4.0 released.
- 04/09/2020: *graphflow* 0.3.0 released.
- 04/07/2020: *graphflow* 0.2.1 released.
- 09/12/2018: *graphflow* 0.2.0 released.
- 09/03/2018: *graphflow* 0.1.6 released.
- 07/19/2018: *graphflow* 0.1.5 released.
- 06/27/2018: *graphflow* 0.1.4 released.
- 06/14/2018: *graphflow* 0.1.3 released.
- 06/06/2018: *graphflow* 0.1.2 released.
- 04/12/2018: *graphflow* 0.1.1 released.

2.1 What's New

2.2 Release 0.6.0 (December 10, 2023)

- Use of package *sparse* for sparce matrices instead of *scipy.sparse*.

2.3 Release 0.5.1 (August 20, 2023)

- Update package requirements for ReadTheDocs and security issues.

2.4 Release 0.5.0 (June 20, 2023)

- Upgraded some codes for newer versions of *numpy* and *networkx*;
- Removed support for Python 3.6 and 3.7.

2.5 Release 0.4.5 (October 29, 2022)

- Support for Python 3.11.

2.6 Release 0.4.4 (October 4, 2022)

- No *numpy* and *Cython* dependencies before installation;
- Updated CircleCI pipeline.

2.7 Release 0.4.3 (December 31, 2021)

- Remove Fortran.
- Support for Python 3.10.

2.8 Release 0.4.2 (December 15, 2021)

- Support for Python 3.10.

2.9 Release 0.4.1 (April 19, 2021)

- Refactoring Fortran 90 implementation imports.

2.10 Release 0.4.0 (April 10, 2021)

- Replacing TravisCI with CircleCI in continuous integration (CI) pipeline;
- Huge refactoring.

2.11 Release 0.3.0 (April 09, 2020)

- Support for Python 3.8;
- Decommissioning support for Python 2.7;
- Cython/C support for PageRank, with function arguments changed.

2.12 Release 0.2.1 (April 7, 2020)

- Support for Python 3.8.

2.13 Release 0.2.0 (September 12, 2018)

- Implementation of HITS (Hyperlink-Induced Topic Search) algorithm.

2.14 Release 0.1.6 (September 3, 2018)

- Bug fixed;
- New unit tests added.

2.15 Release 0.1.5 (Jul 19, 2018)

- Compatibility with Python 3.7.

2.16 Release 0.1.4 (Jun 27, 2018)

- Minor documentation typos fixed.

2.17 Release 0.1.3 (Jun 14, 2018)

- Compatibility with Python 3.5 and 3.6.

2.18 Release 0.1.2 (Jun 06, 2018)

- Precalculate distance matrix to speed up subsequent calculations.

2.19 Release 0.1.1 (Apr 12, 2018)

Home: *Welcome to GraphFlow's documentation!*

INDICES AND TABLES

- genindex
- modindex
- search