

Novelpy: A *Python* package to measure novelty and disruptiveness of bibliometric and patent data

Pierre Pelletier and Kevin Wirtz *

Bureau d'Économie Théorique et Appliquée

Université de Strasbourg, Université de Lorraine, CNRS

Abstract

Novelpy (v1.2) is an open-source *Python* package designed to compute bibliometrics indicators. The package aims to provide a tool to the scientometrics community that centralizes different measures of novelty and disruptiveness, enables their comparison and fosters reproducibility. This paper offers a comprehensive review of the different indicators available in *Novelpy* by formally describing these measures (both mathematically and graphically) and presenting their benefits and limitations. We then compare the different measures on a random sample of 1.5M articles drawn from Pubmed Knowledge Graph to demonstrate the module's capabilities. We encourage anyone interested to participate in the development of future versions.

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*Email: p.pelletier@unistra.fr; kevin.wirtz@unistra.fr