Raphaël Tinarrage - Publications

Journal articles

04/2023 **Recovering the homology of immersed manifolds**
arXiv: https://arxiv.org/abs/1912.03033
Discrete and Computational Geometry (https://link.springer.com/article/10.1007/s00454-022-00409-5)

03/2022 **Computing persistent Stiefel-Whitney classes of line bundles**
arXiv: https://arxiv.org/abs/2005.12543
Journal of Applied and Computational Topology (https://link.springer.com/article/10.1007/s41468-021-00080-4)

06/2020 **DTM-based filtrations**, with Hirokazu Anai, Frédéric Chazal, Marc Glisse, Yuichi Ike, Hiroya Inakoshi and Yuhei Umeda.
arXiv: https://arxiv.org/abs/1811.04757
Symposium Abel 2018 (https://link.springer.com/chapter/10.1007/978-3-030-43408-3_2) and SoCG conference 2019 (https://drops.dagstuhl.de/opus/volltexte/2019/10462/)

Conference articles

09/2022 **O impacto da Súmula Vinculante 26 na diminuição de demanda similar no STF: uma análise quantitativa por modelos de ML**, with Beatriz S. Chagas and Carla M. Damian
Paper: https://raphaeltinarrage.github.io/files/Paper_CONPEDI_Quantitativa.pdf
XI Encontro Internacional do CONPEDI (http://site.conpedi.org.br/publicacoes/129by0v5/gg2as8tl/0d71WWx2sWUgr61q.pdf)

09/2022 **Progressão de regime em crimes hediondos no Supremo Tribunal Federal: uma análise empírica pela Súmula Vinculante 26**, with Ana Clara M. Jaccoud and Pedro B. de Oliveira
Paper: https://raphaeltinarrage.github.io/files/Paper_CONPEDI_Empirica.pdf
XI Encontro Internacional do CONPEDI (http://site.conpedi.org.br/publicacoes/129by0v5/502849so/6o53sVpwaxV5352U.pdf)

Preprints

07/2024 **Empirical analysis of Binding Precedent efficiency in the Brazilian Supreme Court via Similar Case Retrieval**, with Henrique Ennes, Lucas E. Resck, Lucas T. Gomes, Jean R. Ponciano and Jorge Poco
https://arxiv.org/abs/2407.07004

01/2024 **Train-Free Segmentation in MRI with Cubical Persistent Homology**, with Anton François
https://arxiv.org/abs/2401.01160

06/2023 **LieDetect: Detection of representation orbits of compact Lie groups from point clouds**, with Henrique Ennes
https://arxiv.org/abs/2309.03086

04/2023 **TDANetVis: Suggesting temporal resolutions for graph visualization using zigzag PH**, with Jorge Poco, Agma J. M. Traina, Jean Roberto Ponciano and Cláudio Linhares
https://arxiv.org/abs/2304.03828

09/2022 **Simplicial approximation to CW complexes in practice**
https://arxiv.org/abs/2112.07573

Last update: October 7, 2024