

Accepted Manuscript

Universal approximate simplification under the discrete Fréchet distance

Omrit Filtser

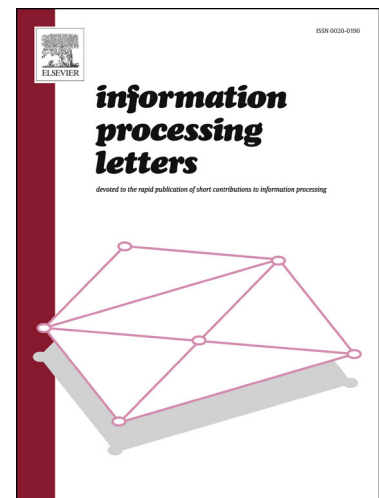
PII: S0020-0190(17)30180-1
DOI: <https://doi.org/10.1016/j.ipl.2017.10.002>
Reference: IPL 5592

To appear in: *Information Processing Letters*

Received date: 25 October 2015
Revised date: 15 October 2017
Accepted date: 16 October 2017

Please cite this article in press as: O. Filtser, Universal approximate simplification under the discrete Fréchet distance, *Inf. Process. Lett.* (2017), <https://doi.org/10.1016/j.ipl.2017.10.002>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- Two useful data structures for discrete Fréchet distance queries are presented, first is a data structure for segment query to the entire curve, and the second is for a segment query to a subcurve.
- A universal approximate simplification of a given polygonal curve under the discrete Fréchet distance.
- An approximation algorithm for the discrete Fréchet distance between two curves.

Download English Version:

<https://daneshyari.com/en/article/6874224>

Download Persian Version:

<https://daneshyari.com/article/6874224>

[Daneshyari.com](https://daneshyari.com)