

# Computational Homology

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in recent years, there has been a growing interest in applying homology to problems involving geometric data sets, whether obtained from physical measurements or ...

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algorithmic topology, or computational topology, is a subfield of topology with an overlap with areas of computer science, in particular, computational geometry and ...

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efficient ways to lower the computational cost of homology have been studied. ... topological data analysis and persistent homology have had impacts on morse theory.

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abstract definition of homology a free chain complex  $c = \{(c_k, \partial_k) \mid k \in \mathbb{Z}\}$  consists of free abelian groups  $c_k$ , called chains and group homomorphisms  $\partial_k: c_k \rightarrow$

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introduction to the basic chomp software. the chomp homology software is available in two configurations: a basic version that consists of a single command-line ...

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(1) the computational homology project offers free software chomp that will compute homology of simplicial complexes, at least with finite field coefficients.

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chapter 3 computing homology 3.1 introduction we now turn our attention to the more difficult problem of deducing the homology of a compact metric space from a ...

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computational homology by tomasz kaczynski, konstantin mischaikow, marian mrozek english | 2004 | isbn: 0387408533 | 482 pages | djvu | 7.5 mb

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this chapter justifies a “computational level” of biological analysis and present the concepts of “computational homology” and “computation,” which pave the ...

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2 2 2 robert ghrist three examples of applied & computational homology naw 5/9 nr. 2 june 2008 123 f:  $x \rightarrow y$  induce algebraic maps (homomorphisms) on homology groups

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applications of computational homology to 3d morphology transitions (high performance algorithms for computational science and their applications)

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computational homology author: tomasz kaczynski, konstantin mischaikow, marian mroze published by springer new york isbn: 978-1-4419-2354-7 doi: 10.1007/b97315

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